



SANATANA DHARMA COLLEGE

ALAPPUZHA

Affiliated to University of Kerala
Alappuzha - 688 003, Kerala, India
(Accredited by NAAC with 'A' Grade)
Phone +91-477-2266704 (Principal); www.sdcollege.in
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SELF-STUDY REPORT

Accreditation - Cycle 3

Submitted To

**NATIONAL ASSESSMENT & ACCREDITATION COUNCIL
(NAAC)**

ALAPPUZHA - 3, KERALA

September, 2016

Preface

Sanatana Dharma College (S. D. College), Alappuzha, is one of the oldest and largest educational institutions affiliated to the University of Kerala. The college was set up in 1946, and has successfully completed 70 years of meritorious service in the field of higher education. The vision of the institution is to lead young minds from the darkness of ignorance to the path of truth, wisdom and positive action, and to empower them through quality education that combines knowledge, skills and human values. The ideals of truth, goodness and beauty, enshrined in the motto of the institution, “Satyam, Shivam, Sundaram”, are inculcated in a holistic educational vision and practice leading to nation building and to the realization of a fuller human life.

The Sanatana Dharma College (S. D. College) is located in Alleppey (Alappuzha), a small town that enjoys a unique place in the tourist map of the world. The town’s enchanting beauty with its seashore on the west and the vast expanse of lakes and lagoons has earned her the envious sobriquet, “*Venice of the East*”. This is the place famous for its backwaters, houseboats, coir and coir products. S. D. College is a premier educational institution in Alleppey, whose origins can be traced back to the activities of the Theosophical Society of India, under the aegis of Dr. Annie Besant. At a time when the erstwhile state of Travancore, especially Alleppey lacked basic facilities for education, two prominent members of the Society in Alleppey, Dr. S. Venkitarama Naidu and K. A. Krishna Iyengar founded Sanatana Dharma Vidyalaya on 18th January 1905 imbibing the spirit and vision of the Society. Historical records vouch for the fact that formal education was still alien to the native population at that time. To fill the void, V. Sundaraja Naidu and K. Parthasarathy Iyengar, the worthy sons of Dr. S. V. Naidu and Krishna Iyengar, garnered public support and raised the resources to establish S. D. College on 20th June 1946. The college is affiliated to University of Kerala and was accredited in 2000 with four star and re- accredited in 2011 with ‘A’ Grade by NAAC. The college celebrates June 20 as founders’ day every year. The Present Manager of Sanatana Dharma College is Sri. J. Krishnan F.C.A.

What started with a National Diploma in Commerce with 125 students has progressed to a full-fledged college with U. G Courses in 13 subjects and P. G. Courses in 9 subjects and with 2283 students. Six departments are approved research centres under the University for Ph. D. programmes. There are over 101 teaching staff and 43 non-teaching staff in the college. Among the teaching staff, 61 have Ph. D and 14 have M. Phil. as their highest degree. Many staff members have received Awards and Fellowships and many have operated externally funded research projects. The Golden Jubilee of the College was celebrated in 1995-96 and the Diamond Jubilee in 2006-07, with much fanfare. The alumni of the college have excelled in many diverse fields as evidenced by their success in their respective fields. The college is the centre of many important socio-cultural events in Alleppey. It functions in an idealistic manner without bias of any kind. In 2016-17, the college celebrates 70th Anniversary of its glorious existence. The college is on the take off stage to emerge as a Centre of Excellence, committed to national unity and integrity by imparting value oriented education of international standards to equip our students to face the challenges of the modern world through excellence in teaching and learning, research and extension as well as skill development. In pursuit of this, we opt for the third cycle of accreditation during 2016.

Now, the College is on the path of the Third Cycle of Accreditation by the National Council of Assessment and Accreditation. The process of preparing the Self-Study Report was an enriching experience to all the stakeholders. We hope this will help the institution in facing the challenges of the new era without compromising on the values set by our founders.

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Ref :

Date : 23rd Sept 2016.

DECLARATION BY THE HEAD OF THE INSTITUTION

I certify that the data included in this Self - Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer Team will validate the information provided in this SSR during the peer team visit.

Dr. S. Nataraja Iyer

Dr. S. NATARAJA IYER
Asso: Prof: in Charge of PRINCIPAL
SANATANA DHARMA COLLEGE
ALAPPUZHA





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Date :

CERTIFICATE OF COMPLIANCE

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that **SANATANA DHARMA COLLEGE, ALAPPUZHA** fulfils all Norms:

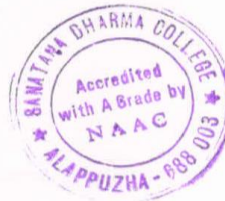
1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition is valid as on date.


In case the affiliation/recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: 23rd Sept 2016
Place: Alappuzha




Dr. S. Nataraja Iyer
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Asso: Prof: in Charge of PRINCIPAL
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Ref :

Date : 23rd Sept. 2016.

CERTIFICATION OF SELF STUDY REPORT

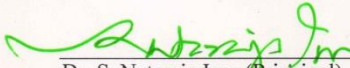
This is to certify that the Self Study Report submitted to the National Assessment and Accreditation Council for the third cycle of accreditation of the College has been prepared with the participation of the college community and that it reflects the nature and substance of the institution.

For SANATANA DHARMA COLLEGE


MANAGER

Sri. J. Krishnan F.C.A (Manager)

Dr. S. NATARAJA IYER
Asso: Prof: in Charge of PRINCIPAL
SANATANA DHARMA COLLEGE
ALAPPUZHA


Dr. S. Nataraja Iyer (Principal)

Dr.V.R.PRABHAKARAN NAIR
Coordinator
Internal Quality Assurance Cell
Sanatana Dharma College
Alappuzha- 3, Kerala


Dr. V.R Prabhakaran Nair (Coordinator, IQAC)



SANATANA DHARMA COLLEGE ALAPPUZHA

EXECUTIVE SUMMARY

The key aspects of the college under the various criteria of NAAC and the efforts of the institution to adhere to the core values are highlighted briefly hereunder:

Criteria I: Curricular Aspects

Curriculum Planning and Implementation: As an institution of higher learning affiliated to the University of Kerala we are obliged to, and we do, follow the curriculum and syllabi prescribed by the University and revised periodically by the University academic bodies following the national policy of higher education, and exactly in parity with the syllabi of UGC-CSIR National Eligibility Tests.

Academic Flexibility: Being an affiliated institution, the college has limited flexibility in deciding the curriculum for the courses that are offered. Academic flexibility is ensured through the Open Courses and Elective Papers under CBCSS for UG and through elective papers under Semester System for PG. For all undergraduate programmes, an Open Course is offered in the fifth semester. It provides opportunity to students to pursue interdisciplinary studies, which helps them in future career options. Each department has the option to decide the electives and optional subjects that need to be included in undergraduate and post graduate programmes. Both UG and PG programmes function in the modular form.

Curriculum Enrichment: The College strives to make the necessary updating of the curriculum through its representatives in various bodies of the University, such as Board of Studies, syllabus revision committees, Academic Council, Senate etc. As a result, the syllabi for all the courses are revised regularly. The syllabi for all the Undergraduate programmes have been revised from 2010 and changed from the annual stream to semester system with the introduction of the Choice Based Credit and Semester System (CBCSS). Masters programmes have been thoroughly revised during 2013. This is part of the major overhaul of the higher educational scenario of the state of Kerala as per the suggestion of the UGC and is directed by the Kerala State Higher Education Council.

Curriculum Planning and Implementation: The College has a fair representation and reasonable contribution in curriculum planning and implementation at the University level. 2 members of the faculty are on the faculty boards, 25 members are on the various Boards of Studies of the University and one is a senate member. Besides this, a number of teachers participated in the curriculum restructuring workshops conducted by the University over the past five years. The college faculty was actively involved in the design of curriculum, grading and other activities associated with the change over from the annual system to the semester system at the degree level. The faculty who are members of the UG/PG Boards of Studies of University of Kerala have helped in incorporating the changes demanded by the present national scenario. The College has initiated many new programmes of study in the Post-accreditation period. We started B.Sc. Microbiology in 2014 and M.A. in Malayalam in 2013, both under the aided stream. Besides these, four departments (Chemistry, Commerce, Economics and Mathematics) acquired the status of research centres affiliated to University of Kerala in the post accreditation period.

Feedback system: Regular feedback is collected from the students and remedial measures are taken to rectify any inadequacies pointed out by the students. The College has a formal mechanism of obtaining feedback from students at the end of each semester. The system is developed and modified by the IQAC. The College also collects feedback from various stakeholders like faculty members, students, alumni, parents, academic peers, employers and industry.

Criteria II: Teaching Learning and Evaluation

Student Enrolment and Profile: The College does its student enrolment based on the Centralized Allotment Process (CAP) for undergraduate and post graduate programmes. The overall Demand Ratio for the academic year 2015-16 comes to 6:1 for under graduate programmes and 9:1 for post graduate programmes. The College has total student strength of 2283 comprising 1963 UG and 320 PG students. More than 15 % of students belong to minority communities. SC, ST, OEC and OBC students constitute above 35% of the total strength.

Catering to Student Diversity: The admission is carried out by strictly adhering to all the government and university norms, and it is ensured that all rights regarding different categories such as SC, ST, OEC, OBC, physically challenged, etc are protected, and achievers in sports, arts, and the like are duly recognized. Remedial coaching is arranged every semester for weak students, who are identified based on diagnostic tests conducted at department levels. Advanced learners are provided coaching for NET, Civil Service and other competitive examinations. Advanced learners are further assisted with Walk with a Scholar (WWS) Programme in which a teacher mentor is allotted the care of 6 selected advanced learners.

Teaching-Learning Process: The admission process is based on merit, subject to statutory reservations and according to the regulations prescribed by the Kerala State Government under the Centralized Allotment Process (CAP) of University of Kerala. The college prepares the academic calendar as per University schedule and it is made available to the students in advance. The Teaching-Learning and Evaluation systems have been designed to suit the objectives of the college, to equip the students to succeed in a competitive technology-driven world, encourage scholarship and research and at the same time uphold moral values. The IQAC has been organized with representatives from faculty, alumni and industry to ensure quality and excellence in all endeavours.

The College prepares an Academic Calendar at the beginning of every academic year, with focus on periodical internal tests, special events such as seminars, conferences and workshops, and co-curricular activities. Individual teachers prepare Work Plans, which are submitted to the Heads of Departments and Principal for verification. Work diary is maintained by teachers showing the involvement in both academic and non-academic activities. The college prepares separate semester plan in line with the guidelines provided in the semester plans of University. ICT enabled teaching is practiced wherever possible and the available infrastructure are used to its optimum. Laboratories are well maintained and effectively used. The Language Lab caters to all students at the undergraduate level, along with its specialised use by students of English language and literature. Field visits and institutional visits are organised. Departments make good use of their computer labs. Students have free access to internet. Every Department is provided with WI-FI connectivity. Learning is promoted through student centred projects, assignments and seminars.

Teacher Quality: The College has 101 faculty members serving in various departments out of which 60 of them are PhD holders and 14 of them are MPhil holders. 22 new teachers were appointed during the period 2011/12 to 2015/16 in substantive vacancies are available in the government-aided stream. The current student-teacher ratio is 3:1 at the post graduate level and 19:1 at the undergraduate level.

Evaluation process and Reforms: The college follows a two-fold system for evaluation of academic performance viz., formative, conducted by the college, and summative, conducted by the University. The formative level assessment covers 20% in the case of undergraduate programmes and 25 % in the case of post graduate programmes. The summative assessment accounts for 80% and 75 % respectively for UG and PG programmes. The formative evaluation components are class participation, seminars, assignments and test papers. The summative evaluation is based on end semester written examinations, practicals, student projects and viva-voce conducted by the university.

Student performance and Learning Outcomes: The College focuses on its learning outcome namely academic excellence, leadership, team work, social concern, environmental consciousness, critical thinking and ethical values. The teaching – learning – evaluation strategies are designed in such a way so as to achieve the learning outcome to the maximum possible. Student performance and learning outcome are assessed through feedback from students, parents, alumni and employers. As part of continuous assessment, test papers, assignments and seminars are conducted and 20% and 25% marks are earmarked for internal assessment in UG and PG respectively in a transparent manner. There are effective grievance redress systems at the college and university levels. Tutorial/remedial classes are conducted by all departments for weak students. Class room teaching is complemented through invited talks, group activities, ICT methods and web resources, and an effective tutorial/mentor system. Library facility is well utilized by students. Laboratory facilities have been improved and updated under FIST-DST schemes to meet the requirements stipulated in the new curriculum and the requirements of the research scholars. Adequate numbers of computers are available and free internet facility is provided to all students.

For the last 5 years (2011-16) the average pass percentage for UG is 73.56 % and that for PG is 72.58 %. During this period, 41 students have qualified UGC-CSIR NET/JRF/GATE/JAM Examinations. Teachers are encouraged to enhance their knowledge by attending national and international Seminars/Conferences/Workshops. Our teachers have won National and State awards, academic recognitions, memberships in international and national academic and research organizations, referee panel memberships and editorial positions of journals of national and international repute during the post-accreditation period. Many teachers are working as members of the Vigilance Squad of the University for ensuring proper conduct of university examinations. Internal and external academic audits are conducted in the college. We organize International/National Conferences, Seminars and Training Programmes for the benefit of our staff and students. 148 eminent persons/experts have visited the institution and interacted with our staff and students during the last five years. In addition, there were at least 398 instances of significant involvement from our faculty in seminars, workshops, conferences etc. during the last 5 years.

Criterion III: Research, Consultancy and Extension

Promotion of Research: The College has strengthened research, consultancy and extension activities in the post- accreditation period. Thanks to generous support by UGC, DST, KSCSTE, etc., necessary infrastructure and laboratory facilities have

been developed during this period to promote research activities. 9 PG departments are engaged in research and 6 of them are recognized by the University as research centers. A Research Monitoring Committee is constituted to monitor the progress of research projects in the college. Academic and Research Forum functioning in the college organise various events like invited lectures, periodic presentations of research papers by the faculty, research methodology workshops etc.

Resource Mobilisation for research: Considerable amount of resources are allocated for furthering research activities as it constitutes 20 percent of the total budget on an average. During the last five years the college has spent Rs. 2, 60, 83, 818/- for creating, developing and maintaining various research promoting facilities such as Common Instrumentation Centre, Central Computing Facility, laboratories at Department levels, and acquisition of research journals and reference books. During the last five years 41 projects (39 minor and 2 major) have been undertaken by the faculty with a total grant of Rs. 69,39,800/- Apart from these, interdisciplinary Projects and infrastructure Development for Teaching & Research Projects have been implemented. The Department of Science and Technology (DST), Govt. of India has identified five of our departments namely Mathematics and Statistics, Physics, Zoology, Botany and Chemistry for DST – FIST support and DST selected the entire college as a DST-FIST sponsored college in 2014 by sanctioning Rs. 1 crore for creating research facilities. Department of Physics has been granted SARD-KSCSTE project worth Rs. 30 lakhs for creating research facilities in nano science. Apart from these, management has sanctioned Rs. 80, 48, 292/- for the establishment of Common Instrumentation Room and another research lab to operationalise the FIST and SARD projects respectively. Lab equipments were also purchased under the UGC development assistance for an amount totaling Rs. 8, 90, 000/-.

Research facilities: The College is publishing one multi disciplinary journal. The College has the unique advantage of having access to online journals through INFLIBNET. Access to NLIST and online resources are available to the researchers. Some departments have established good linkages with leading institutions. The College has six Research Departments. Currently, there are 34 scholars doing research leading to PhD through these centres. 16 members of the faculty are research guides, and there are 19 research guides in total. The Common Instrumentation Centre and the Central Computing Facility help researchers working in various fields.

Research Publications and awards: 16 awards/recognitions were bagged by our faculty for their significant research contributions. In the last five years, the faculty members have published 20 books, 15 chapters in edited books, 188 papers in reputed national/ international journals and 70 papers in conference proceedings. A total of 5 Ph.Ds. have been awarded under the supervision of our research faculty in this period.

Consultancy: The faculty members are engaged in various consultancy services. The Research and Consultancy Service Cell (RCSC) monitors and supports these activities. We are being consulted by Dept. of Higher Education, Govt. of Kerala for ASAP; Dept. of Forests and Biodiversity etc in addition to the local bodies, schools, industries, and the public for water analysis, soil testing etc. and medical colleges, nursing colleges and research institutes for statistical analysis. The faculty members provide consultancy free of cost. Currently 25 % of faculty members are engaged in providing consultancy services in different areas. The major areas of consultancy are Tissue culture, Taxonomy, Vermi-composting, Water testing, Soil analysis, Budgeting, Mathematical modelling, Waste management, Mushroom culture, Language and Communication skills, Research

projects, expert opinion etc. The college encourages faculty members to take up consultancy work and provides the necessary infrastructure facilities.

Extension Activities and Institutional Social responsibility: The extension activities are varied and relevant. These are carried out under the auspices of NSS, NCC, Red Ribbon Club, Blood Donors Forum, Harita Sanatanam, Bhoomitra Sena etc. We organize science awareness camps, science exhibition, seminars, book exhibitions, etc. in collaboration with various departments like Department of Agriculture, Department of Science and Technology, Kerala State Council for Science Technology and Environment (KSCSTE) etc. The teachers are active in publishing articles in academic journals and popular magazines that benefit the public and the student community, especially school students, to a large extent. The recently constituted Civil Service Club has made significant contribution in creating awareness classes on competitive examinations, which is highly beneficial to the student community. The Career Guidance and Placement Cell also conduct training programmes and placement drives. The various clubs functioning in the college also organize lectures and activities that promote social awareness and interaction.

Collaborations: The faculty members have collaboration with four foreign universities and 10 national level institutions for research work / laboratory use and joint paper preparation. MoUs have been signed with Amrutha Viswa Vidyalaya for the Virtual Lab facility, with KELTRON for conducting IT related courses, with Kerala Cricket Association (KCA) for developing the cricket ground, with Sukrindra Oriental Research Institute (SORI) for collaborative research, and with Phoenix for add on course.

Criterion IV: Infrastructure and Learning Resources

Physical facilities: The College has land area of nearly 46 acres, with 14, 195 sq mts of built up area. The main structures contain 58 class rooms, 19 laboratories, two computer labs (one big and one small), one language lab, three IT enabled seminar Halls and one auditorium. Along with the Central Library, there are Department libraries as well. The college has one women's hostel. Sports and games are facilitated through the space set apart as football court, volley ball court and basket ball court. The library and the Cooperative Store provide books, reprographic facilities and other stationery items at subsidized rates. A canteen is within the campus. The college has developed a Cricket ground in association with the Kerala Cricket association.

Library as a Learning Centre - Built up area of the library is 5904 sq. ft consisting of General Library, PG Library, Reference Section and IT Zone. The current strength of materials comprises 56091 books, 68 Journals and periodicals. Books are bar-coded and the issue and return of books are computerised. The average number of walk-ins is around 70 per day. There are 6000 journals available under NLIST/INFLIBNET facility. Library resources also involve 150 CDs and 4 softwares including one meant for blind students.

IT Infrastructure - 147 computers are made available throughout the College. 135 of them are connected on LAN via underground Optical Fibre Cable. 12 laptops are provided to various Departments. Wi-Fi facility is provided in all departments. A full-time system administrator looks after the IT facilities. Centralized computing facility with 40 computers is available for the students. Mini computer rooms are available in many of the departments. The current computer student ratio is 1:16. There are 22 LCD projectors and 37 printers available in the college ranging across various departments.

Maintenance of Campus Facilities - Computers and Network issues are covered under warranty or Annual Maintenance Contract. A transformer is being installed for trouble

free power supply. UPS back up is given for computers, and generator back ups are arranged for major equipments and laboratories. Water supply within the campus is kept in balance through rain water harvesting and independent wells.

Criterion V. Student Support and Progression

Student mentoring and support – The College Calendar provides information necessary for the students and members of staff. The College and the management have instituted a number of proficiency awards/prizes for academic performance. More than 2 lakhs Rupees have been provided in the last four years as proficiency endowments/awards. Various state and Central Government Scholarships are available to the students. SC/ST and economically challenged students obtain financial support from the Government. Nearly 70 % of the students get financial assistance from various government departments for their education in the form of scholarships, fee concessions and allowances. In addition to this, under various central and state government schemes, students received more than Rs. 15 lakhs as scholarships. A Special section has been constituted in the College Office to handle scholarship matters. A whopping amount of Rs. 3, 54, 00, 146/- has been provided in the form of total financial assistance from State Government for the last five years. Coaching for NET is provided in many departments. During the last five years 41 candidates qualified UGC-NET, JRF and GATE.

Student Progression - The College does not have a formal structure of tracking the progression of students from UG to PG and further studies. However through the Alumni meetings and other social networks it is learned that approximately 60% of the students who pass out from degree classes have pursued their studies in PG courses. Around 3% of the students only go for M Phil programme and almost 10% of the PG students take up research for doctoral degree after their PG courses. The students pass percentage is above 73 % across all the programmes on an average. The dropout is reduced to below 2 per cent over the last few years.

Student participation and activities - Sports and Games: The College team has been university level winners in Cricket, Soft Ball, Weight Lifting and Athletics for the past several years consecutively.

Departmental associations: Departmental associations help students to develop their talents and enable them to develop creative and organising skills through Intra-departmental, Inter-departmental and Inter Collegiate programmes.

Cultural activities: Inter and intra-departmental competitions are arranged for students. There is a fairly good participation of our students in the university youth festival.

National Service Scheme: The College has an NSS unit comprising both girls and boys. Our NSS unit was selected as the best in the university for the last two consecutive years. The NSS unit has adopted a village and several activities are undertaken there for improving the standard of living of the people. Other activities include planting of tree saplings, cleaning drives, flood relief activity, visits to charitable institutions and homes for the destitute, etc.

National Cadet Corps: The NCC unit of the college has developed into 2 contingents of boys and girls with a total strength of 160 each. A large number of cadets have actively participated in several national and state level camps that are held every year in different parts of Kerala. 8 cadets have participated in the Republic Day parade. Both contingents received recognition for their best performance in both Independence Day and Republic Day parades in the last many years. NCC units also organize various social and extension activities every year.

The Women's Studies Cell (WSC) of the college functions for the welfare of girl students. Lectures and activities intended to promote gender sensitization and women's empowerment are arranged by the Cell.

Other Student Activities: Other activities include student publications/ manuscripts at department levels, Departmental Associations, Literary Club, Drama Club, Nature Club, Entrepreneurship Club, Eco Club, Civil Service Club,. The Student College Union is elected every year according to the parliamentary system. Various committees like IQAC and College Council enjoy student representation.

Criterion VI – Governance, Leadership and Management

Institutional Vision and Leadership – The College was established with the objective of providing value based liberal education aimed at social development. To fulfil this objective the college admits students from diverse backgrounds irrespective of their religion, region, caste, economic strata and academic performance. A culture of participative management is developed in the institution. Various committees are formed to address demands and needs, and are constituted with representation from various quarters.

Strategy Development and Deployment - Use of ICT is well established in the teaching, learning and evaluation process. Encouragement is given for research. Avenues of community engagement are discovered, and constructive tapping of human resource is promoted. There is also adequate interaction with the industry.

Faculty Empowerment Strategies – The College conducts several programmes for faculty empowerment. Induction programme is organised for newly appointed members of faculty, Methodology workshops and ICT skill development programmes are organised for all teachers. An Academic Workshop is held every year. Further, faculty members are encouraged to attend Refresher courses and Orientation programmes. The college motivates the faculty members to attend seminars, conferences and workshops. During the period under review faculty members attended 398 seminars / workshops. The College encourages the faculty to complete their doctoral studies under the Faculty Development Programme offered by UGC.

Financial Management and Resource Mobilization – Major sources of financial assistance of the college are the grants from State Government for salary of the staff, development assistance from the UGC and special assistance from the Department of Science and Technology, KSCSTE etc. Other sources of income are from PTA and Management. All the accounts of the college are audited by appropriate authorities.

Internal Quality Assurance System (IQAS) – The IQAC of the college undertakes several quality improving activities. It organises academic workshops and the academic review. It designs, implements, monitors and evaluates quality improving initiatives.

Criterion VII – Innovations and Best Practices

Innovations: *our avenues* of innovation are to be noted: (i) Attendance Management System linked with the College website, through which teachers enter student attendance details online. (ii) Bar-coded Smart ID Cards, helping students transact business in the college library, (iii) Smart Class Rooms facilitating IT enabled teaching, (iv) Publication of a Research Journal v) establishment of an inter disciplinary science common instrumentation research centre vi) recent establishment of research and consultancy cell (RCSC) to coordinate the extension and consultation activities.

Best Practices: College follows several practices such as morning prayer, led by the Principal, a good teacher-student relationship, student-centred learning, student

counselling, Mentoring programme, Academic Review and Workshop, provision of free internet access to students, optimal use of ICT facilities, maintaining a learner friendly campus ambience and network with alumni.

The two specific best practices are:

1. Annam Sanatanam: In order to spread the message of charity and humanity, and holding aloft the motto “Annadanam Mahadanam” the College has initiated a project called ‘Annam Sanatanam’ in which students and teachers donate noon meal packets every week to the inmates of Medical College, General Hospital and others.
2. Comprehensive Skill Enhancement Programme: The College has been running the Additional Skill Acquisition Programme (ASAP) from the last year in a very successful manner. We are a recognised centre for the ASAP programme of the Government of Kerala, with five star status. In addition to this programme, the college has started a comprehensive Skill Enhancement and Career-guidance Programme under the leadership of the Career Guidance and Placement Cell, whereby students are given career guidance and skill training. Placement drives are also held where many students have got placed in jobs.

Many other innovations and best practices have been envisaged and implemented by the college in the post accreditation period. Some of them are the following:

Environmental Consciousness: There is a concerted effort among the staff, students and all the stakeholders of the college towards inculcating and perpetuating an environmental consciousness in the campus. The college maintains its campus as an eco-friendly zone. The college has taken up the practice of environment protection and bio-diversity conservation as a best practice through green platforms like Haritha Sanathanam and Bhoomitrasena Club, and through the various clubs and forums like the NSS, NCC and the Eco Club. Herbal and vegetable gardens are maintained and tree planting ceremonies are held on important commemorative days of national importance.

Reading Week: The Malayalam department organizes the Reading Week, to inculcate reading habits among students, and to promote cultural and literary activities in the mother tongue. Seminars and workshops on cultural and literary topics, and on journalism, are conducted. Book exhibitions and sales, reading sessions, lectures, competitions and visits are arranged as part of the event.

Student Support Initiatives: The College provides a slew of scholarships, endowments, awards, freeships and other cash incentives to students to recognize and support their academic and co-curricular achievements. Walk with a Scholar (WWS) programme, the mentoring programme for bright learners adopted in collaboration with Govt of Kerala ensures holistic growth of students by providing academic and mentoring support to promising students. Scholar Support Programmes (SSP) and remedial coaching is also provided for slow learners. UGC/CSIR/NET/JRF coaching is also imparted to students in most departments.

SWOC ANALYSIS

STRENGTHS

Track record and history: The College was established in the pre-independence era (1946) as a full-fledged Degree college. The Management has a long history of providing quality education to the socio-economic and educationally backward students of Alleppey and nearby areas. The College was founded with the idealistic objectives of uplifting and enlightening society through the education of youth in the areas of science, technology, arts, languages, commerce, culture and values. The eternal principles of “Satyam”, “Shivam” and “Sundaram” were adopted as the motto of the institution, and are still retained and adhered to by the Management, the staff, students and all other stakeholders.

Accessibility: The location of the College along the NH 66 and four kilometers south of Alleppey Town makes it easily accessible. The proposed bye-pass starts just ahead of the College. The Alleppey Railway station is about 3 kilometers from the College. All the buses including long distance super fast/express buses have a stop in front of the College.

Campus Area and Facilities: The College is located in a sprawling 46 acre plot with lots of green areas and open spaces, providing an ideal academic atmosphere and ambience for overall development of the students. The library subscribes to INFLIBNET and other digital and e-resources. The College is a Nodal Centre for the Virtual Lab programme of MHRD and collaborates with Amrita Vishwavidyalaya in developing content under this project. The College is also included under the NMEICT Programme of the Govt. of India. The College has its own water supply system with an overhead tank and pumping station. Full generator back-up is provided with a 125 kv generator. A language lab with latest software provides scope for the development of English language to the students. Broad-band internet facility and LAN is provided in the College Office, Computer Centre, UGC Network Resource Centre and all Departments. The Information Centre of the University of Kerala and P. G. Library functions in the land provided by the Management across the college campus. The fee structure of an affiliated institution also makes it accessible to students from different strata of society.

Dynamic Unitary Management: The College is managed by a unitary Management which means that the faculty and staff are assured of a transfer-free working environment. This ensures that those interested to make a career choice can perform without having to worry about impending transfers. The management takes utmost care in assisting the college in all its developmental activities.

Goodwill of the People: The College enjoys a unique place in the annals of the land of Alleppey and the lives of its people. It being the premium co-educational institution in Alleppey for the past seventy years, the college has played a significant role in moulding the lives of countless generations of students in and around Alleppey. People from all walks of life, of all castes and creeds, have been associated with the SDV group of institutions and S D College. This is reflected in the goodwill that pours towards the college every day.

Strong Basic Programmes: The College offers a wide range of programmes at the undergraduate, post graduate and research levels. All disciplines of Arts, Sciences, Humanities and Commerce are covered, with 13 UG, 9 PG programmes and 6 research departments. This feature attracts students with academic interest to choose and pursue a course of their choice.

Quality Faculty and Good Teacher-Student Relationship: The College has an ideal number of teaching faculty. More than 100 staff members of high reputation and qualification are engaged in teaching, research, consultancy and extension activities. Majority of the faculty (60 Phds and 14 Mphils) have research degrees and more than 10 are currently engaged in research. The faculty has been selected for many international and national awards and fellowships for their contributions in various areas. The teacher-student ratio (1:20) is also ideal for the teaching-learning process. Research is actively encouraged in the college and several externally funded projects have been successfully completed resulting in original research publications in high impact factor journals and patents.

Democratic and Participatory Management: Involvement of stakeholders in the management and administration of the college is encouraged. The constitution and functioning of all committees and platforms in the college is carried out in a democratic and participatory manner, ensuring justice and equality to all stakeholders and maximizing efficiency.

Low drop-out rate: The drop-out rate is very low when compared to similar colleges in urban areas and towns in Kerala, and is especially negligible at the PG level. The various scholarships, endowments and other student support programmes also help the students to cover the cost of their education without undue strain on their parent's income. The tutorial system and the dedication of the staff also ensure that students complete their education.

Gender Parity and Women's Education – The College predominantly comprises of girls both at the UG and PG levels. It is about 66 % at the UG level and 90 % at the P. G. level. The Women's Studies Cell functioning in the college works towards the welfare of the girl students and ensures gender justice and gender parity to the girl students. The college provides day care facility in the campus for the children of staff and students.

Illustrious alumni: The College has a long list of well known alumni which includes statesmen, bureaucrats, industrialists, and other stalwarts in the fields of education, literature, arts, culture, film etc among other luminaries. Since 1986, the college has registered alumni with the registration number A/353/86. In March 2016, name of "SD COLLEGE OLD STUDENTS ASSOCIATION" was renamed as SDCAA- "SANATANA DHARMA COLLEGE ALUMNI ASSOCIATION" and the old registration was renewed with the registration number ALP/TC/142/2016. In order to ensure the smooth functioning and independent department level activities, SDCAA is classified in to 12 alumni chapters; 11 department alumni and 1 NCC alumni.

WEAKNESSES

Alumni support: Despite having a long and illustrious alumni list, the College has not been able to tap the alumni enough for substantial financial resource mobilisation.

Lack of Modern Infrastructure: The College suffers from lack of modern infrastructure, as it was established in 1946. Modernization of plumbing, electricity and furniture has been initiated but needs to be speeded-up.

Tie-ups and Collaborations: The College has limited tie-ups and collaborations currently.

Financial Position: The financial position of the college poses a challenge. The ever increasing recurring expenditure is a serious concern and measures are yet to evolve to find additional financial resources.

Research Output: Though the college has six research centres and 60 per cent of its permanent faculty members are PhD holders, the research output is not proportionate.

Consultancy: The College has not effectively utilized its knowledge potential for undertaking consultancy especially in the form of paid service.

Affiliating system: The rigidity of the syllabus, the difficulty in starting new programmes, inconvenient examination schedules and delayed publication of results are the limitations of the affiliating system, which directly affects the college.

Lack of support from Industry – Since Alappuzha is a predominantly agriculture-fishery based semi-rural area, there are no major industries which can support the academic activities of the college. However the proximity to the industrial hub Kochi can be tapped effectively in future.

Absence of Modern Management practices: The principles of modern management of human resources and infrastructure are yet to be applied in managing the College.

Low rate of adoption of Technology in teaching-learning process: Modern ICT based methods of teaching-learning process is yet to be adopted on a massive scale, even though substantial progress is being made in this direction.

More number of first generation learners & lack of parental support: Majority of our students are from low socio-economic backgrounds and are “first generation learners”. They also lack parental support in their education and other areas needed for their proper development. This has been compensated to a certain extent by the effective student support system in place in the college.

Absence of long-term planning in institution building and academic programmes: A lack of long term planning on developing the institution and utilizing the expertise of staff is evident in the college. Also, the delay in starting of new academic programmes due to severe policy constraints of the Government, UGC and University of Kerala are hampering the academic progress of the college.

OPPORTUNITIES

Option to be upgraded to a College with Centre of Potential for Excellence (CPE): The College has satisfied most of the conditions to be eligible for being considered for the award of the CPE status.

Chance of using the increasing tourist arrivals and associated establishments: The College has the potential to start academic programmes suited to the needs of the tourism sector, given the fact that Alleppey, the “Venice of the East” is a tourist hot spot. Courses that focus on entrepreneurship, communication and presentation skills, IT skills and soft skills etc can be introduced in this context.

Utilizing the expertise of Alumni: The College is blessed to have alumni in all parts of the world, occupying top positions. This can be tapped effectively to effect the total rejuvenation of the College. The support of the alumni can be sought for infrastructure development and the establishment of tie ups and collaborations.

New Programmes: The College could start new programmes in new and emerging areas of contemporary relevance especially in Management, Technology and Print and Visual Media.

Curriculum Enrichment: By utilising the faculty resources in the college several curriculum enrichment programmes may be designed and conducted. This will mitigate the problem of the rigid curriculum of the affiliating system.

Innovative Teaching Methods: Innovative teaching methods can be adopted by utilising the advancements in the field of technology and channels of information dissemination.

Attracting Bright Students: Unique programmes can be designed for attracting bright students.

Remedial Coaching: The remedial programmes may be strengthened so that the results in the university level examinations may be improved.

Research: The research output can be improved. The quality of research publications can be enhanced. The faculty members can take up more projects. More PhDs can be produced in the departments. Thus a research culture can be developed in the campus.

Department Level Collaborations - As most of the departments are research centres, collaborations can be made at the inter department level. This would increase research output and generate inter-disciplinary knowledge.

Infrastructure - The infrastructure in the campus can be improved to support the academic programmes and the student requirements.

Tie – Ups: It would be ideal in the given situation of India's current socio-economic growth story to establish tie-ups with academic institutions and industries for research, extension, student and faculty exchange, on the job training and for student placements.

CHALLENGES

Lack of interest among youth to opt for conventional courses: This is a serious issue affecting all the traditional institutions of higher education in the country and our college is no exception. The lack of vocational and other job oriented courses in the college has affected the quality of student intake.

Mushrooming of other, private unaided institutions and other choices: The options available to the students in the area of higher education due to the indiscriminate proliferation of self-financing educational institutes in nearby areas is a major threat to the College in terms of the quality of students entering into the campus.

Slow pace of adapting to the fast changing trends in higher education: The changing trend in higher education is expected to challenge the very fabric of education that is being offered in the country. The arrival of Massive Online Open Courses (MOOCs) and similar online courses of foreign Universities and Institutions are to be studied in detail and the College has to adapt to these changes to keep up with the modern trends.

Increased cost of operation and maintenance of infrastructure is also a challenge that has to be overcome through proper long term planning, investment and execution. A serious effort to mobilize funds from various areas and its effective utilization has to be made.

Recruitment Policy: Government restrictions on the appointment of teaching and non-teaching staff sometimes affect the implementation of academic programmes. This has to be effectively managed through timely appointments or using the services of guest faculty.

POST ACCREDITATION INITIATIVES

A. Initiatives undertaken Based on the 10 - Point Suggestions made by the Peer Team.

1. Establish more collaborative linkages with other institutes for teaching and research.

In the post reaccreditation period the college has put in efforts towards collaborating with institutes for promoting teaching and research. This encompasses individual, department and college level collaborations. Some of the institutional collaborations for teaching and research include the following:

- The college has a tie up with Amrutha Viswa Vidyalaya for facilitating the use of Virtual Lab. The Virtual Labs project is an initiative of the Ministry of Human Resource Development (MHRD) under the National Mission on Education through ICT (Information and Communication Technology). Amrita University is a part of the consortium of twelve institutions, which build virtual labs covering various disciplines in science and engineering. In our college, the Department of Chemistry is a nodal centre of Amrita University in realising this project. As a nodal centre the Department engages students to conduct lab experiments in computer stimulated environment.
- Sanatana Dharma College had entered in to a MoU with Phoenix Institute of Financial Training Pvt. Ltd., UK, to impart financial awareness programmes and to deliver financial training to students of the college primarily for equipping them with UK Accounting and Financial Qualifications.
- The college has executed a MoU with KELTRON, Govt. of Kerala for offering training programmes in computer networking and software development.
- SD College acts as a sub Centre of Centre for Continuing Education Kerala under Government of Kerala. It offers advanced Diploma in Logistics and Retail Management and Professional Diploma in Hardware and Networking.
- The college has entered into an MoU with the Department of Higher Education, Govt. of Kerala for offering skill development programmes under the ASAP.
- A Memorandum of Understanding has recently been signed (on 29th march, 2016) with Sukrithindra Oriental Research Institute (SORI), Ernakulam to provide a conceptual framework of cooperation and to facilitate collaboration in areas of mutual interest such as research in Sanskrit, Indology and related subjects, conduct of seminars, workshops, symposia, and publication of books and materials related to the aforesaid areas.
- Collaboration with National Institute of Inter-disciplinary Science and Technology (NIIST), Trivandrum. NIIST, a National Research lab under CSIR (Govt. of India) is engaged in R&D activity in different areas. Currently the Agro processing and natural Product division is pursuing research work in Kuttanad fields focussing mainly on crop improvement in collaboration with Phytobacteriology and Mycology division of the Department of Botany, Sanatana Dharma College, Alappuzha. We are giving support in maintaining the microbial culture as well as for logistics.
- P. G. and Research Department of Botany collaborate with RRL, Jorhat, for

research in Microbiology. This has resulted in many international publications, gene bank submission and student training.

- We are having collaborative arrangements with the following organizations such as, Indian Institute of Science, Bangalore; IISER, Trivandrum; Department of Applied Chemistry and Department of Physics, CUSAT Cochin; IIT, Kanpur; NIT, Calicut. Many of our research faculties and students are making use of facilities in these institutes. The students were also taken to several institutions and places of national importance like the IIM Calicut, Kerala School of Mathematics, CWRDM, etc.
- Faculty in the Department of Physics is involved in Hybrid Solar Cell Research with University of Central Florida. Department is also conducting polymer based devices with Naval Physical and Oceanographic Laboratory, Govt. of India (NPOL).
- The faculty in the Department of Botany coordinate a project with IIUCNRM, University of Kerala.

2. **Enhance entrepreneurship and skill development programmes.**

ASAP - As per the recommendation made by the peer team, the college introduced the Additional Skill Acquisition programme (ASAP) and a comprehensive Skill Enhancement and Career Guidance Programme under the aegis of the Career Guidance and Placement Cell. The college has been running the **Additional Skill Acquisition Programme (ASAP)** from the year 2012 in a very successful manner. We conduct regular skill development classes, training sessions and career counselling to empower the students to excel in the highly competitive job market. ASAP is the joint venture of the Government of Kerala and the Departments of Higher Education and General Education to address the issue of imparting skill education. It is conducted as a twenty one day residential programme with 30 students from various colleges of the University.

WWS: Walk with a Scholar (WWS) Scheme had been introduced in the College since 2014 under the sponsorship of Higher Education Department, Government of Kerala to impart skills through specialized mentoring for students in Undergraduate programmes in Arts, Science and Commerce. The programme aims at giving the students necessary guidance, motivation and necessary mental support to identify appropriate areas for higher studies, helping them to explore and identify suitable employment opportunities and assisting them to realize their full potential through a holistic approach towards skill development.

Entrepreneurship Development (ED) Club: The Entrepreneurship Development Club was constituted to identify the students having entrepreneurial capabilities and to provide a platform to display the skills in the field. Many programmes were conducted during the past 2 years such as Food exhibitions, Soap Manufacturing, handicrafts, start up programmes in stitching for girl students.

3. **Library and Finance Department may be fully computerized.**

As per the decision of IQAC, the automation process in the office was initiated. As a part of it, all office staff were provided computers. At present most of the administrative files including salary bills are prepared through computers. Steps are being initiated to fully automate the office and finance section through the creation of Management Information System (MIS). The library is fully automated with KOHA software. KOHA is a web based software having modules that support all library operations. We use in-house bar-coding systems for documents and also member

profiles. The software is capable of having Z.39.5 facility for interoperability with international catalogues and cataloguing facilities. Our library is using the Library of Congress and the Catalogue of the Singapore National University as the bench mark libraries for rendering of data and other standards.

4. Innovations in teaching learning process with more ICT aids.

In the post accreditation period the college has given due importance to bring in innovations in ICT enabled teaching learning process. Though the traditional Chalk and Talk method is prominent, the ICT enabled teaching methods have started to make an impact in many ways. Teachers make use of online facilities in classes for supplementing traditional teaching. The college is the nodal centre for virtual laboratory in collaboration with Amrutha Viswa Vidyalayam, Kollam. Two faculty members were given training by the service providers. An in-house training programme was organised by the college for the members of science faculties with the support of the trained teachers. N-LIST programme of INFLIBNET provides online access to information sources, books and national and international journals. 136 computers linked with LAN located in 12 departments and computer centres provide basic ICT support for teaching, learning and evaluation process. 10 classrooms have been developed as smart classrooms with the support of LCD projectors. Besides, Interactive Boards are provided to 5 departments. Language lab with modern software provides ICT enabled support for imparting language skills. 5 research laboratories and 12 spacious UG and PG laboratories provide facilities for effective learning. Moodle Learning Management System is being implemented. Our faculty and research scholars have access to electronic theses and dissertations through Shodh-Ganga, a project of UGC. In all P.G departments there is at least one projector enabled classroom. The institute is gradually planning for course management software “MOODLE” where all information related to academics will be provided 24x7 as part of our commitment to quality enhancement.

5. Enhancement of Staff, teacher and student welfare programmes-

Although there are no formal welfare schemes for the staff and students, many informal mechanisms ensure their welfare. The Employees Co-operative Society provides loans up to 5 lakhs with minimum procedural delay. Many group efforts involving the staff, students and the alumni have been initiated to provide much needed relief when medical aid is needed. A proposal to constitute a Welfare Trust for such altruistic purposes is on the anvil.

6. Job oriented courses to be introduced.

SD College acts as a sub Centre of Centre for Continuing Education Kerala under Government of Kerala. It offers advanced Diploma in Logistics and Retail Management and Professional Diploma in Hardware and Networking.

The KELTRON study centre under the auspices of Government of Kerala offers a variety of IT related certificate courses in computer networking and software development for nurturing job oriented skills among the students. Career Guidance and Placement Cell (CGPC) in the college has conducted various job oriented training programmes. The Cell conducts:

- Coaching for ICWA was offered by Department of Commerce in association ICWA Alappuzha Chapter. SD College was the centre for ICWA coaching in Alappuzha.

- Intensive coaching is given to shortlisted candidates for appearing for the campus placement drive of scheduled banks.
- Mock interviews, group discussions and soft-skill development programmes are conducted by individual departments in association with the Career Guidance and Placement Cell for passing out batches.
- Coaching classes are conducted in many departments to equip the students to appear for various competitive examinations.
- Training was provided on professional etiquettes and body language to improve their performance in Job interviews as well as professional careers.

7. Skill oriented training programmes are to be organised for non-teaching staff.

Orientation Classes were arranged on SPARK system of managing salary bills. Classes on MS Office were given to the non teaching staff to make them more competent to use computers.

8. Hostel Facilities be created for male students

There is not much demand from the male students of the college for residence facilities. However, the college has made residential arrangements outside with some agencies, if requested by the students.

9. Central Instrumentation Centre may be established.

Dr. A.P.J Abdul Kalam Memorial Common Science Instrumentation Centre: A separate building is on the verge of completion to host all the facilities under the Fund for Improvement of S&T infrastructure (FIST) project which is an initiative by the Department of Science and Technology, Govt. of India towards providing basic infrastructure, enabling facilities and environment for promoting R&D in new and emerging areas. All the expenses towards the construction of building and other infrastructural facilities were funded by the management of the college. The building has separate space for research equipments, computers and networking facilities and e-learning facilities. The idea of separate building is to encourage inter-departmental and inter-institute research and collaborations.

10. Being semi-urban area the college facilities may be utilised by teaching Spoken English to local population

Although efforts have been made in this direction, a formal mechanism had not yet been devised for extending spoken language skills to the public. The language lab in the English department has been used to improve the language and communicative skills of the students of the college. The faculty of the English department serve as Master Trainers for the ASAP and also for the soft skill training programmes organised by the CGPC.

B. Other Post Accreditation Initiatives by the College

1. Installation of Broad Band Internet Facility, Central Server System and Local Area Network (LAN)

Broad band internet facility and LAN is provided in the college office, computer centre, IQAC Conference room and all departments. High speed optical fibre cabling has been introduced for broad band internet. Interactive boards, LCDs etc have been installed and ICT methods are widely used by staff and students. All the departments have internet connectivity and sufficient number of PCs, and the faculty are system savvy.

2. Installation of Generator and Transformer

Full generator back-up is provided with a 125 kv generator. A transformer with a capacity of 400 kv is being installed to overcome voltage fluctuations.

3. Appointment of a System Administrator

In view of the increasing number of computers, and other infrastructure the management has appointed a system administrator to deal with the operational aspects and difficulties related to IT infrastructure.

4. Establishment of Day Care Centre

Day care centre established with UGC support helps to take care of children of Staff of the college.

5. Facilities Enhanced in Women's waiting Room

The **Women's Studies Cell** took the initiative to improve the facilities of the women's waiting room, and installed a water purifier in the hall and two incinerators adjoining the girl's toilet.

6. New Block for Women's Hostel

A new block was built in the hostel, facilities were improved and incinerators were installed. Yoga classes and counselling sessions are also provided for girl students.

7. Construction of Gymnasium

A 12-station multi gymnasium with modern equipments was built to provide adequate facilities for physical development of students.

8. Funding under FIST-DST

Fund for Improvement of S&T infrastructure in universities & higher educational institutions (FIST) is an initiative by the Department of Science and Technology, Govt. of India towards providing basic infrastructure enabling facilities and environment for promoting R&D in new and emerging areas in Colleges and Universities all over the country. During 2014-15, the college qualified for funding from the DST under the FIST scheme and received Rs. 1 crore (maximum available funding for Level-0).

9. Research Assessment Committee Constituted

A Research Assessment Committee has been constituted with experts to provide academic and research leadership. The planning and monitoring of research projects is effectively done by the Cell. The main objective of the committee is to assess and provide necessary directions and help in applying for various minor and major research projects for funding to different Govt. agencies like the UGC, KSCSTE and DST. The IQAC, UGC Planning Committee and Research Assessment Committee have explored all the available opportunities for getting funds for infrastructure development and modernization. This brought in more funds from UGC, DST, KSCSTE etc. which was utilized on a priority basis for modernizing and updating the laboratories and class rooms with new equipment. This has given greater momentum to teaching, learning and research.

10. Expand Central Computer facility, train all office & teaching staff in the use of computer.

The management has set up a new Computer Lab with 40 computers, in addition to the computer labs in the individual departments. All office and teaching staff are given training in the use of computers and softwares. Admission details, attendance, examination, internal assessment scores etc. are submitted online.

11. Smart rooms and mini seminar halls in Departments.

Smart rooms and mini seminar halls with necessary learning facilities were set up in some of the departments in the post accreditation period.

12. Formulation of Vision Plan.

The Management has prepared a perspective plan document ‘Vision 2025’ listing all developmental activities and academic programmes to be started to make this college a centre of excellence of quality standards by 2025.

13. Quality Enhancement measures by IQAC.

The IQAC has become the chief organ for quality enhancement and sustenance. It keeps in touch with all stakeholders, monitors the progress in quality measures and has set up benchmarks for improvement. Feedback is collected and analyzed and the results are conveyed to all. Annual internal academic audit has been made mandatory. Besides, an additional external academic audit was also conducted to assess our progress during the last 5 years, recently. Exit meetings are held and reports on assessment are given to each department with suggestions for improvement. IQAC also insisted the teachers to keep work diaries recording their day-to-day curricular and extra curricular activities.

14. Creation of a Management Liaison Office

The NAAC peer team reports have highlighted “the rapport established among the management, Principal, the faculty, the administrative staff, the students, parents, alumni and the community at large”. However, the institution has chosen not to rest on its laurels and has continued its efforts to be a model institution in education. A Liaison Office has been established to act as a bridge between the Principal and the Management, under the charge of a Liaison Officer, assisted by a typist and an assistant. A notable feature under this criterion is that the Management has shown its willingness to invest heavily in many of the infrastructure and student/staff centered activities, without waiting for the funds from UGC or similar funding agencies.

15. Constitution Academic and Research Forum (ARF)

We have constituted an Academic & Research Forum (ARF) which acts as a common platform to coordinate and organize academic and research initiatives of the students, research scholars and teachers. The forum undertakes various events and activities like invited talks by eminent personalities/researchers, studies on issues that have social relevance and policy implications, academic publications, periodical presentations, organization of academic fests/competitions etc.

16. Publication of Research Journal ‘SANATANAM ACADEMIC REVIEW’

A Research journal entitled “SANATANAM Academic Review” – An Interdisciplinary Research Journal has been finalised for the release of its inaugural issue (Vol. 1, No. 1, January-June, 2016) in October/November 2016. The Journal title verification application is being submitted to Registrar of News Papers of India for approval.

17. Funding under SARD-KSCSTE

The P. G. Department of Physics was granted Rs. 30 Lakhs under the SARD Scheme of KSCSTE, Govt. of Kerala during the year 2014-15. The research facilities under SARD were sanctioned by KSCSTE, Govt. of Kerala to enhance the research facilities in the Dept. of Physics. The facilities include most of the basic instruments for material synthesis, processing and characterization.

18. **Separate Laboratory for Research under SARD - KSCSTE Scheme**

To facilitate research in the fields of Materials science, Optoelectronics, Organic Electronics and Nanoscience, a separate research laboratory has been created by converting two class rooms. This was facilitated by using additional funds from the Management.

19. Purchase of Licensed Softwares: Licensed softwares like the Matlab, LabVIEW, Mathematica and Origin 2016 were purchased in the post accreditation period.

20. **Formation of Research and Consultancy Service Cell (RCSC) to establishing institute-industry interface**

The college encourages various departments to establish institute-industry interface at department levels for providing on the job training / internships for programmes, research collaborations and campus recruitments. The Management encourages forming Memorandum of Understanding (MoUs) with other institutes to sustain the cooperation on a formal basis. The College is now on the verge of operationalising the newly formed Research and Consultancy Service Cell (RCSC) which would act as the nodal agency for establishing institute-industry interface. At present Consultancy promotion in the college gathers vigor mainly at the individual level. The RCSC is expected to coordinate the consultancy services offered by the college.

21. **Social Responsibility Project “Annam Sanatanam”**

By spreading the message “Annadanam Mahadanam”, the college has initiated a project called ‘Annam Sanatanam’ in which students and teachers donate noon meal packets every week to the inmates of Medical College, General Hospital and others. “Annam Sanatanam” was started with this intention of promoting the values of social commitment and readiness to help those in need, as it falls within the duty of every educational institution to inculcate such values to the student community.

22. **Environmental Protection and Biodiversity Conservation**

- **Harita Sanatanam** was launched as an initiative to spread environmental consciousness and eco-friendly initiatives among the students, staff and other stakeholders. The **Bhoomitrasena Club** (Friends of the Earth) was formed and practical programmes of planting and maintaining trees, vegetable and herbal garden was chartered. Seedlings were planted as part of an afforestation programme, and vegetable gardens were prepared. The students were involved in all the activities of planting and nurturing the plants. The produce was shared among the staff and students.
- A unit of the **National Environment Awareness Campaign (NEAC)**, a project that works towards environmentally sustainable development, and comes under the Ministry of Environment, Forests and Climate Change (MOEF), was set up in the college. Its activities include setting up of a herbal garden, producing a short film and conducting seminars.

23. **Comprehensive Skill Enhancement Programme**

The college has been running the **Additional Skill Acquisition Programme (ASAP)** from the last year in a very successful manner. We are a recognised centre for the ASAP programme of the Government of Kerala, with five star status. In addition to this programme, the college has started a comprehensive **Skill Enhancement and Career-guidance Programme** under the leadership of the Career Guidance and Placement Cell, whereby students are given career guidance and skill training. Placement drives are also held where many students have got placed in jobs.

24. New Clubs started for Holistic Development of Students

In the post accreditation period, we aimed to mould good citizenship and service orientation through community network and student engagement.

- Antiquarian- Invited lectures on themes of historical and cultural significance have been organized. Special lectures are held on Gandhi Jayanthi, Vivekananda Jayanthi, and so on.
- Human Rights Forum- Seminars and lectures have been organized to promote awareness on issues related to human rights.
- Civil Service Club was constituted with the objective of providing awareness classes on Civil Service Examinations to genuine aspirants.

25. New Departments and Courses

Paving way for the emergence of a new department the college has started a new course BSc Micro Biology in 2014. Besides this, the U.G department of Malayalam has been upgraded to the status of a P.G Department with the introduction of a new course viz., M.A. Malayalam in 2013.

26. Research Centres Started

In addition to the already existing 2 research departments, four more departments viz., Mathematics, Commerce, Chemistry and Economics have been upgraded to the status of research centres during the last three years.

27. Library/ Information Resources Augmented for Research Scholars

The College subscribes to INFLIBNET and print journals in various areas as per the request of research Departments. CD ROMS and internet facility is provided to them free of cost in the Library, Computer Centre as well as in the Departments. Separate space is provided in the general library of the college for research scholars. Of the total allocation, annually 25% of the library fund is utilized for the purchase of research level books and journals.

28. Establishment of Centre for Research on Aquatic Resources

Department of Zoology has constituted the “Centre for Research on Aquatic Resources” under the coordination of Dr. G. Nagendra Prabhu. The Centre emerged from the output created from a project that worked towards the innovative recycling of aquatic weeds that have infested the canals and backwaters of Alleppey. The project resulted in Dr. Prabhu bagging the prestigious FLAIR award from the Higher Education Department of Government of Kerala. The website of the Centre is in progress.

29. Campus Beautification

The campus has been landscaped and beautified by the Management in a manner befitting the tradition and stature of the institution.

30. Cricket stadium, new play ground.

The cricket stadium was established in association with the Kerala Cricket Association and a MoU has been signed for this purpose. Bowling Machine, 3 practice pitches, facilities for net practice are already in place. A pavilion, player’s rooms, water tank, toilets and indoor practice facility will be established as part of the MoU. This is a unique facility in Kerala and the only one in Alleppey District. A new play ground has been constructed in the college for games and sports other than cricket.

31. New Academic Block (North Block) Nearing Completion

To accommodate the newly introduced Micro Biology course the management has sanctioned and allocated Rs. 2 crores to build a new academic block having a built up area of 12, 500 sq. ft. In this block, provision for permanent examination halls are also being envisaged.

32. Department Spaces and All labs Renovated

During the last five years the Management has spent above Rs. 50 lakhs for renovating department work spaces and all labs in the college.

33. MoUs Signed in the Post Accreditation Period

In the post accreditation period the following main MoUs are signed by the college.

- a) MoU with Kerala Cricket Association for developing the ground to national standards
- b) MoU with Sukrtindra Oriental Research Institute for research collaboration, and
- c) MoU with Phoenix for starting an add on course.

1. PROFILE OF THE COLLEGE

1. Name and Address of the College

Name:	SANATANA DHARMA COLLEGE, ALAPPUZHA
Address:	Sanatanapuram P. O, Kalarcode Alappuzha (Dist.)
City:	Alappuzha
Pin:	688 003
State:	Kerala
Website:	www.sdcollege.in

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. S. Nataraja Iyer	O: 0477 2266704 R: 0477 2252591	9447252591	+91 477 2266704	sanatanamalp@gmail.com
IQAC Coordinator	Dr. V.R Prabhakaran Nair	O: 0477 2266704 R: 0481 2425757	9447583057	+91 477 2266704	sdcollegeiqacteam@gmail.com

3. Status of the Institution:

Affiliated College	✓
Constituent College	--
Any Other (specify)	--

4. Type of Institution:

a) By Gender	i. For Men <input type="checkbox"/> ii. For Women <input type="checkbox"/> iii. Co-education <input checked="" type="checkbox"/>
b) By Shift	i. Regular <input checked="" type="checkbox"/> ii. Day <input type="checkbox"/> iii. Evening <input type="checkbox"/>

5. Is it a recognized minority institution?

Yes No

If yes specify the minority status (Religious/linguistic/ any other) (Provide the necessary supporting documents): NA

6. Sources of Funding:

Government
 Grant-in-aid
 Self-financing
 Any other

7. a) Date of establishment of the college: 20/06/1946

b) University to which the college is affiliated (if it is an affiliated college) or which governs the college (if it is an constituent college):

UNIVERSITY OF KERALA, THIRUVANANTHAPURAM

c) Date of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2 (f)	01.01.1956	--
ii. 12 (B)	01.01.1956	--

d) Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.): NIL

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes : No :

If yes, has the college applied for autonomy?

Yes : No :

9. Is the college recognized

a) By UGC as a College with Potential for Excellence (CPE)?

Yes No

If yes, date of recognition: NOT APPLICABLE

b) For its performance by any other government agency?

Yes No

If yes, name of agency and date of recognition: NOT APPLICABLE

10. Location of the Campus and area in sq. Mts.

Location	Semi-urban
Campus and area in sq. Mts.	186155 sq. mts
Built up area in sq.mts	14, 195 sq. mts

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

i) Auditorium/ seminar complex with infrastructural facilities ✓

- ✓ General Auditorium
- ✓ Golden Jubilee Auditorium
- ✓ Seminar Hall with Audio Visual facility-3 (One under construction)
- ✓ Department Seminar Halls – 03
- ✓ Seminar-cum-examination Hall - 01 (Under Construction)

ii) Sports Facilities

• First Class Cricket Stadium and Net Practice Facilities.

- ✓ A Bowling machine
- ✓ 2 Cricket Nets – 14 x 3 meters
- ✓ 3 practice pitches
- ✓ Facilities for net practice

- ✓ Other facilities like player's room, water tank, toilets and indoor-practice facility are also maintained well.
- **Play Ground with the following Facilities**
 - ✓ Shuttle Badminton Court
 - ✓ Athletics
 - ✓ Concrete Basketball Court
 - ✓ 200 M Track
 - ✓ Volleyball court
 - ✓ Handball court
 - ✓ Kabbadi court
 - ✓ Sevens Football ground
- a) Swimming Pool: NIL
- b) Gymnasium
 - ✓ Multi Gymnasium with 12 station
 - ✓ Weight Lifting and Power Lifting Weights
 - ✓ Dumbels
- c) MoUs with the following Sports Authorities
 - Sports Authority of India (SAI) Special Area Games in Water sports
 - Sports Council
 - District Associations of various games.
 - Kerala Cricket Association(KCA)
- iii) **Hostel:**
 - Boys' Hostel : Nil
 - Girls' Hostel : Yes
 - a) Number of hostels: One
 - b) Number of inmates: 116
 - c) **Facilities Available in Hostel**
 - Number of Students' Rooms: 25
 - Rooms are allotted on sharing basis according to the size of rooms. Each student is provided with a cot, table, chair and a rack.
 - Matron's Room
 - Sick Room
 - Common reading Room
 - Common Computer
 - Common Telephone Facility
 - Newspapers.
 - Kitchen and Mess Hall
 - **Library**
There is a small library, with a collection of 300 books, both in English and Malayalam.
 - **Provision Store Managed by Inmates.**
 - **Sewing Machine**
 - **Other services**
 - Yoga

Yoga is taught on paid basis by an experienced Yoga Instructor to the inmates who wish to learn as a crash programme.

- Counseling
Counseling service is extended to the inmates of the hostel.
- Cleanliness and Security services
There are three full-time cooks and a sweeper who look after the cleanliness of food and environment regularly. A lady scavenger comes thrice a week to clean up the toilets and there is a security man in the night to guard the hostel.
- Co-curricular Activities
Sports and Games: Badminton, Chess and Caroms.
- Working Women's hostel: NIL

iv. Residential facilities for teaching and non-teaching staff (give numbers available - cadre wise) : NIL

v. Cafeteria/canteen

Canteen facility has been provided in the campus with food at subsidized rates to students. Separate seating facilities are available in the canteen for the convenience of the students and staff. A committee consisting of staff and students supervise the functioning of the canteen.

vi. Health centre, First aid, Inpatient, Outpatient, Emergency care facility, Ambulance:

First aid facility is available in the college itself, a well established hospital, viz. Co-operative Hospital, Punnappa with inpatient, outpatient, emergency care facility, ambulance etc. is available within 400 metres. Also Alappuzha Medical College is situated within 5 kilo metres. Service of a physician is available throughout the day in the private medical clinic (G.G Clinic) working in front of the college campus. Over the last many years the college receives medical assistance from this physician on emergency situations.

vii. Facilities like banking, post office, book shops.

- ✓ Books and Stationery items are available in the College co-operative Store.
- ✓ State Bank of India, Dhanalaxmi Bank, Federal Bank and a Post office is situated within the 100-200 meter radius. Four ATMs are also available within this limit.

viii. Transport facilities to cater to the needs of students and staff

- ✓ Public/private buses are frequent

ix. Animal House:

- ✓ One Fish Pond

x. Biological waste disposal: Yes

xi. Generator or other facility for management/regulation of electricity and voltage: Yes

- ✓ Generator
- ✓ Transformer Installation in the campus is on progress

xii. Solid waste management facility:

- ✓ Municipality Removes the Solid Waste periodically

xiii. Waste water management: NIL

xiv. Water harvesting: Yes

xv. Day care Centre : Yes

12. Details of programmes offered by the college (Data for 2015-16 academic year)

Sl. No.	Level	Name of the Programme/ Course	Duration (years)	Entry Qualification	Medium of instruction	Sanctioned /approved Student strength	No. of students admitted**
1.	UG	B.A English	3	+2	English	40	40
		B.A Communicative English	3	+2	English	30	37
		B.A Malayalam	3	+2	Malayalam	40	50
		B.A Hindi	3	+2	Hindi	30	35
		B.A Economics	3	+2	English	50	60
		B.A History	3	+2	English	40	51
		B.Com	3	+2	English	100	122
		BSc Physics	3	+2	English	40	45
		BSc Chemistry	3	+2	English	40	43
		BSc Botany	3	+2	English	40	41
		BSc Zoology	3	+2	English	40	47
		BSc Maths	3	+2	English	50	59
		BSc Microbiology	3	+2	English	32	32
2.	PG	M.A English	2	Degree	English	15	20
		M.A Malayalam	2	Degree	Malayalam	15	20
		M.A Economics	2	Degree	English	15	18
		M.Com	2	Degree	English	15	21
		MSc Physics	2	Degree	English	10	13
		MSc Chemistry	2	Degree	English	10	15
		MSc Botany	2	Degree	English	14	17
		MSc Zoology	2	Degree	English	12	16
MSc Mathematics	2	Degree	English	15	20		
3.	Integrated Programmes PG		NIL				
4.	Integrated Programmes Ph.D.		NIL				
5	M.Phil.		NIL				
6.	Ph.D.	Subject				No. of Students Admitted	
		Botany	3-8	PG and NET/JRF/Pass in written Test		07	
		Zoology	3-8	PG and NET/JRF/Pass in written Test		06	
		Chemistry	3-8	PG and NET/JRF/Pass in written Test		01	
		Commerce	3-8	PG and NET/JRF/Pass in written Test		24	

	Economics	3-8	PG and NET/JRF/Pass in written Test	03 (Order Awaiting)
	Mathematics	3-8	PG and NET/JRF/Pass in written Test	Nil
7.	Certificate Courses		NIL	
8.	UG Diploma		NIL	
9.	PG Diploma		NIL	
10	Any other (specify and provide details)		NIL	

13. Does the college offer self-financed Programmes?

Yes No

If yes, how many? NA

14. New programmes introduced in the college during the last five years if any?

Yes No

Number of New programmes introduced One U.G. + One P.G. + 4 PhD

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments	UG	PG	Research
Science	Mathematics and Statistics	✓	✓	✓
	Physics	✓	✓	-
	Chemistry	✓	✓	✓
	Botany	✓	✓	✓
	Zoology	✓	✓	✓
	Microbiology	✓	✓	No
Arts	English	✓	✓	No
	Malayalam and Sanskrit	✓	✓	No
	Hindi	✓	No	No
	Economics	✓	✓	✓
	History	✓	No	No
Commerce	Commerce	✓	✓	✓
AnyOther (Specify)	-	-	-	-

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com.

a. Annual system

b. Semester System (UG 13 + PG 9)

c. Tri semester system

17. Number of Programmes with

a. Choice Based Credit and Semester System (13 UG Programmes)

b. Inter/ Multidisciplinary Approach

- c. Any other (specify and provide details) 15
(Semester System 9 PG, and 6 PhD Courses)

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes No

19. Does the college offer UG or PG programme in Physical Education?

Yes No

20. Number of teaching and non-teaching positions in the Institution.

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F				
Sanctioned by the UGC/ University/ State Govt. Recruited	Nil	Nil	27	24	23	27	37	04	02	Nil
Yet to recruit	Nil		Nil		02		Nil		Nil	
Sanctioned by the management /society or other authorized bodies (Ad-hoc): Recruited	Nil	Nil	Nil	Nil	Nil	Nil	01	Nil	Nil	Nil
Yet to recruit	Nil		Nil		Nil		Nil		Nil	

*M-Male *F-Female

21. Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Ph.D.	Nil	Nil	21	17	14	08	60
M.Phil.	Nil	Nil	03	07	02	02	14
PG	Nil	Nil	03	Nil	07	17	27
Total Number of Teachers							101
Temporary teachers (Guest)							
Ph.D.	-	-	-	-	01	Nil	Nil
M.Phil.	-	-	-	-	Nil	Nil	Nil
PG	-	-	-	-	Nil	16	17
Part-time teachers (NIL)							
Ph.D.	-	-	--	-	-	--	NIL
M.Phil.	-	-	-	-	-	-	NIL
PG	-	-	-	-	-	-	NIL

22. Number of Visiting Faculty/Guest faculty engaged with the College : 17

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year 1 (2012-13)		Year 2 (2013-14)		Year 3 (2014-15)		Year 4 (2015-16)	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	34	59	32	63	38	71	46	95
ST	1	3	0	0	2	3	1	3
OBC	73	125	76	150	71	134	64	134
General	172	298	156	308	163	306	161	335

24. Details on students enrolment in the college during the current academic year (2015-16)

Type of students	UG	PG	Ph. D	Total
Students from the same state where the college is located	1961	320	03	2284
Students from other states of India	-	-	-	-
NRI students	Nil	Nil	Nil	Nil
Foreign students	Nil	Nil	Nil	Nil
Total	1961	320	03	2284

25. Dropout rate in UG and PG (average of the last two batches: 2014-15 and 2015-16) (%)

Year	Annual Dropout Rate (%)	
	UG	PG
2014-15	1.80	0.58
2015-16	2.01	0.63

26. Unit Cost of Education (Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) Including the salary component

Rs. 55588.23/-

(b) Excluding the salary component

Rs. 2506.45/-

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes

No

28. Provide Teacher-student ratio for each of the programme/course offered.

Programme	2011-12	2012-13	2013-14	2014-15	2015-16
UG Programme					
B.A English		12:1	12:1	12:1	14:1
B.A Communicative English		12:1	12:1	12:1	14:1
B.A Malayalam		20:1	20:1	23:15	23:1
B.A Hindi		17:1	17:1	17:1	17:1
B.A Economics		23:1	23:1	23:1	23:1
B.A History		27:1	24:1	23:1	23:1
B.Com		27:1	31:1	32:1	33:1
BSc Physics		12:1	12:1	12:1	13:1
BSc Chemistry		14:1	14:1	13:15	14:1
BSc Botany		15:1	15:1	16:1	16:1
BSc Zoology		18:1	18:1	18:1	18:1

BSc Maths	20:1	20:1	20:1	20:1	20:1
BSc Microbiology	--	--	--	32:1	32:1
PG Programme					
M.A English	2:1	2:1	2:1	2:1	2:1
M.A Malayalam	--	--	4:1	4:1	2:1
M.A Economics	2:1	2:1	2:1	3:1	3:1
M.Com	2 :1	2 :1	2 :1	2 :1	2 :1
MSc Physics	2:1	2:1	2:1	3:1	3:1
MSc Chemistry	3:1	3:1	3:1	3:1	3:1
MSc Botany	4:1	4:1	4:1	5:1	4:1
MSc Zoology	4:1	4:1	4:1	4:1	4:1
MSc Mathematics	5:1	5:1	5:1	5:1	5:1

29. Is the college applying for

Accreditation: Yes Cycle 1 Cycle 2 Cycle 3 Cycle 4

Re-assessment: No

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle of Accreditation	Date of Accreditation	Outcome/Result
Cycle 1	20.09.2000	Four Star
Cycle 2	27.03.2011	'A' Grade

31. Number of working days during the last academic year (2015-16)

186 Days

32. Number of teaching days during the last academic year

181 Days

Date of establishment of Internal Quality Assurance Cell (IQAC) : 01.03.2005

33. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC

Sl. No.	AQAR for the year	Date of Submission to NAAC
1	2011-12	05.07.2012
2	2012-13	10.03.2016
3	2013-14	25.03.2016
4	2014-15	28.03.2016
5	2015-16	07.10.2016

34. Any other relevant data (not covered above) the college would like to include.

- The college qualifying for funding from the DST under the FIST Scheme and receive Rs. One Crore for providing basic infrastructure for science departments.
- Special Project SARD in Physics Department.
- The college has implemented the Walk with a Scholar (WWS) mentoring programme of the Govt. of Kerala to offer academic support to bright students.
- The college has also implemented the Scholar Support Programme (SSP) of the Govt. of Kerala to provide academic and mentoring support to slow learners.
- The college is a Training Partner of the Govt. of Kerala in running the Additional Skills Acquisition Programme (ASAP) to provide skill enhancement training to students.
- Existence of Registered Alumni Association.

2. CRITERIA- WISE INPUTS

CRITERION: I CURRICULAR ASPECTS

1.1. Curricular Planning and Implementation

1.1.1 State the vision, mission and objectives of the Institution and describe how these are communicated to the students, teachers, staff and other stakeholders.

S. D. College, Alappuzha, is one of the oldest and largest educational institutions affiliated to the University of Kerala. The college was set up in 1946, and has successfully completed 70 years of meritorious service in the field of higher education.

Vision: The vision of the institution is to lead young minds from the darkness of ignorance to the path of truth, wisdom and positive action, and to empower them through quality education that combines knowledge, skills and human values. The ideals of truth, goodness and beauty, enshrined in the motto of the institution, “Satyam, Shivam, Sundaram”, are inculcated in a holistic educational vision and practice leading to nation building and realization of a fuller human life.

Mission:

- To encourage the spirit of enquiry, creativity, intellectual scholarship and research which will lead to the positive development of society at regional, national and global levels.
- To inculcate nationalistic, secular, inclusive and humanitarian values in students by imparting intellectually challenging and value-added education.
- To provide students with quality education through the latest and all possible best teaching –learning-evaluative methodologies in the knowledge disciplines of science, technology, arts, languages, commerce and culture.
- To equip students with the skills needed for success in a highly competitive globalized world.
- To develop social commitment, personal ethics and discipline, good citizenship and proactive leadership among students through co-curricular and extension activities.

The college, which has been in existence for seventy years, has been fulfilling this mission in keeping with the values of justice, tolerance and secularism enshrined in the Constitution of India, and the vision of its founding fathers. Since majority of the students come from economically and socially weaker sections of the population, the institution has been striving to uplift society by providing quality education at affordable cost. The college ensures transparency, democracy, participation, sound organizational set up and accountability in its functions while maintaining quality in its academic and administrative units. This noble mission is planned and implemented through committed and sustained teamwork, whereby the following objectives are to be achieved:

Objectives

- To identify and execute academic and administrative initiatives those ensure qualitative change in all aspects of education
- To incorporate the current infrastructural and technological innovations in the teaching- learning process

- To develop formal systems to stimulate academic and research environment through quality research studies, developing consultancies and conducting rigorous training programmes.
- To establish productive collaborations with other stakeholders in the arena of higher education.
- To develop and foster competency among students and teachers by establishing linkages that will ensure exposure to the current global trends in education, technology, research and industry.

Dissemination of the vision, mission and objectives

The effective dissemination of the vision, mission and objectives of the college is ensured by prioritizing it in the college calendar, college website, and other documents. The students are briefed about it during the induction Programme conducted in the beginning of the academic year. It is also displayed in the front of the main office building. The IQAC conducts seminars and Open Houses to familiarize students, teachers and other stakeholders with the objectives and initiatives of quality enhancement. The individual departments have their own role in translating the vision and mission of the college into actual practice through the curricular and co-curricular activities and programmes.

1.1.2. How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific examples.

- The College Level Monitoring Committee (CLMC) has been constituted as per University guidelines. Its members include the CLMC coordinator, the Principal, Internal Quality Assurance Cell (IQAC) coordinator, Heads of Departments, and Department Level Monitoring Committee (DLMC) coordinators. The CLMC monitors and coordinates all academic activities under the Choice Based Credit and Semester System (CBCSS). It conducts the Induction Programme at the beginning of the academic year. The Induction Programme introduces all matters related to curricular, co-curricular and extension programmes, and other facilities available to the students. It works along with the DLMC to identify student's academic and co-curricular interests and helps them to make informed choices in extension activities and open courses. CLMC monitors the Continuous Assessment system and addresses the grievances related to the Continuous Assessment (CA) marks/ attendance. It acts as a link with the University in all matters related to examinations, internal assessment system, etc.
- A well worked out time table is arranged at the beginning of the academic year. Class attendance registers and tutorial records, teacher's work diary, etc are meticulously maintained.
- Smooth functioning of working hours is ensured, and loss of working hours are supplementing with extra classes during free hours, zero hours and during weekends.
- The academic calendar of the University is followed as closely as possible, to ensure the effective implementation of the curriculum. The schedule of assignments, test papers, seminars, etc is implemented in a time bound manner. Semester plans are prepared in accordance with the University time schedules.
- Regular monitoring of the academic progress of students is done in department staff meetings, and meetings of the College Council, IQAC, CLMC and DLMC.
- Remedial classes are conducted for the benefit of slow learners.

- Plans for the next academic year are discussed in March itself. Teachers are given their course contents and responsibilities sufficiently early.

Every major plan for the implementation of the curriculum is discussed in the College Council, IQAC Meetings and Staff Meetings. Then it is deployed through the established system. One good example is the selection of the interdisciplinary Open Course as part of the CBCSS for Undergraduate Programmes. The University of Kerala has offered a large number of Open Courses Choice Based Credit and Semester System (CBCSS) for the Undergraduate Programmes. The college had to select one Open Course for each Department. The plan for selection of the Open Course was discussed in the College Council, then in the IQAC and approved in the staff meeting.

1.1.3. What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

The University provides the Academic Calendar and details of the curriculum and syllabus which are uploaded in the university website. It also organizes workshops and orientation programmes for the teachers.

The support from the college, *inter alia*, include setting up the required infrastructural facilities for the changing needs (e.g smart classrooms with appropriate teaching aids), organizing workshops, seminars and invited lectures and encouraging teachers to attend workshops and seminars to familiarize them with the changing system.

- Members of the faculty attended 17 Refresher Courses and 14 Orientation Courses during the last five ars.
- UGC funded 41 major and minor research projects were carried out, which helped in improving the teaching and research capabilities of teachers.
- A Central Library with 56091 books, 68 journals and periodicals, INFLIBNET/NLIST online facilities provide ample opportunity for the faculty and students to deepen their knowledge. Internet connectivity and Information Communication Technology (ICT) facilities have been made available in all departments.
- Many women faculty attended SAM, TOT and MSEM workshops conducted by the UGC for capacity building all over India. The Women's Studies Cell of the college organised SAM workshops in association with University Grants Commission (UGC) in 2011 and 2012, in which many women faculty participated.
- The college conducted workshops in ICT training and research methodology for the faculty. For eg: a Faculty Development Programme in teaching-learning methodologies was organized by the college in association with the Teaching-Learning Centre, IIT, Madras, in October, 2015. Many members of the faculty took part in were familiarized with the latest methodologies of teaching-learning and evaluation.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery on the curriculum provided by the affiliating university or other statutory agency.

- Filling up of vacancies through appointment of regular and guest teachers.
- Maximum numbers of instructional hours are ensured; loss of hours is compensated by engaging extra classes and conducting invited lectures.
- The syllabus is introduced to the students at the outset of the course, with the intention of making them aware of the purpose and outcome of the course.

- Each batch has a tutor/class-teacher who provides mentoring support to students. Student profiles and tutorial records are maintained by the tutors.
- Library facilities like books, journals and e-learning resources are made available to all students and teachers. Regular updating is done in the library.
- Student involvement is ensured in invited lectures, seminars and workshops held in the college.
- Students are given opportunities for ICT aided seminar presentations, project presentations and assignments. Provision of audio-visual aids like OHPs, LCD projectors and interactive boards are ensured.
- Enhancement of ICT facilities.
- Provision of INFLIBNET facility wherein 5000 online journals and 80,000 e-books can be accessed.
- Peer teaching practices are also followed by many departments for the effective delivery of curriculum.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalism of the curriculum.

- Faculty participation in various curriculum development and restructuring workshops conducted by the university, industry and research bodies are encouraged.
- Industry visits and field visits are organized by various departments. For instance, students were taken to visit IIT Madras, IIM Calicut, RBI Trivandrum, Kochi Muziris Biennale, (EFLU) Hyderabad, and other institutions of repute.
- Many invited lectures by eminent scholars and experts, academic workshops and seminars, are organized every year on syllabus related topics as well as emerging areas of knowledge.
- Interaction with scientists and subject experts
- Students are encouraged to take up PG projects in other universities like Cochin University of Science and Technology (CUSAT). Students were sent to participate in the interactive sessions with eminent scientists, researchers, industrialists in the Kerala Science Congress. Students of many departments were encouraged to participate in seminars and paper presentation competitions conducted by other institutions.
- Virtual lab¹ facility with Amritha University

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University.

- 8 teachers contributed to the development of the curriculum at the university level as members of PG board of studies since 2011.
- 5 teachers a served UG board of studies at the university level for the development of the curriculum since 2011.

¹The Virtual Labs project is an initiative of the Ministry of Human Resource Development (MHRD) under the National Mission on Education through ICT (Information and Communication Technology). Amrita University is a part of the consortium of twelve institutions, which build virtual labs covering various disciplines in science and engineering. In SD College, the Department of Physics and Department of Chemistry are nodal centres of Amrita University in realising this project. As a nodal centre these departments engage students to conduct lab experiments in computer stimulated environment.

- 65 % of the members on faculty worked in connection with restructuring of syllabus since 2011 through workshops and as invitees to curriculum revision discussions held by the University.

Table 1.1: Details of membership in Academic (Subject) Associations, Board of studies or academic council of the university/Senate/Syndicate etc.: April 2011 to till date.

Dr. P. Sunil Kumar	Senate Member, University of Kerala	Senate	2013 Onwards
Dr. E.Krishnan Nambathiri	UG Board of Studies in English, University of Kerala	Member	2015
Sri R. Indulal	Faculty of Arts, University of Kerala	Member	2013 onwards
Dr. G. Valsalakumari	PG Board of Studies in Malayalam, University of Kerala	Member	2015
Dr. R. Sreekumar	P.G. Board of Studies of Mathematics, University of Kerala	Member	2010 to till date
Dr. M.P. Ajith Kumar	Faculty of Humanities, University of Kerala	Member	2013 onwards
Dr. S. Vijaykrishnan	Board of Studies of Mathematics(pass), University of Kerala	Member	2014 to till date
Dr. K.H.Prema	Board of studies Pass board (Chemistry), University of Kerala	Member	2014-2017
Dr. V.S.Harikumar	P.G. Board of Studies (Microbiology), University of Kerala	Member	2009 to 2012
Dr. V.S.Harikumar	P.G. Board of Studies (Microbiology),	Member	21/5/2013 to 20/5/2016
Dr. V.S.Harikumar	P.G. Board of Studies (Botany), University of Kerala	Member	24/10/14 to 23/10/17
Dr. Reghunath K.	P. G. Board of Studies in Zoology, Univ. of Kerala, Trivandrum	Member	2011-14
Dr. Suresh P.G.	U. G. Board of Studies in Zoology, Univ. of Kerala, Trivandrum	Member	2015
Dr. G.Nagendra Prabhu	P. G. Board of Studies in Biotechnology, Univ. of Kerala, Trivandrum	Member	2009-12
Dr. P.S. Parameswaran	Board of Studies (Pass), Chemistry, University of Kerala	Member	2014 onwards
Dr. Jubilee Navaprabha	PG Board of Studies in Commerce, University of Kerala	Member	2011-2014
Dr. Rajesh kumar S.	PG Board of Studies in Economics, Kerala University	Member	2014-2017

Table 1.2. Faculties participated in syllabus revision workshops/discussions as Board members

Name	Activity details	Organizer	Date/year
Dr. G.Nagendra Prabhu	P. G. Board of Studies in Biotechnology, Univ. of Kerala, Trivandrum	Syllabus Review Committee	2011-14
Dr. R.Sreekumar	Two-Day Workshop on Syllabus Revision for P.G course in Mathematics	Department of Mathematics, University of Kerala.	11 July 2013.
Sri. Amalraj. P	Two-Day Workshop on the Revision of the Syllabus of Mathematics under CBCSS.	Higher Education Council, Govt. Of Kerala	20 th -22 nd March 2014
Dr. Bibin. K.Jose	Two-Day Workshop on the Revision of the Syllabus of Mathematics under CBCSS.	Higher Education Council, Govt. Of Kerala	20 th -22 nd March 2014

Sri. Rakesh Chandran. B	MSc (Physics) Syllabus Revision Workshop	P.G Board of studies in Physics, University of Kerala	November 29-30, 2013
Dr. (Major) R. Unnikrishnan	Workshop on Restructuring the syllabi	Kerala State Higher education Council	20 th to 22 nd March 2014
Dr. K.H. Prema	Syllabus Revision Workshop, MSc Chemistry	University of Kerala	2015

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed

- No. The curriculum of all courses offered are designed by the University of Kerala.

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation.

In order to ensure that the stated objectives of curriculum are achieved in the course of implementation, the following methods are adopted.

- Teachers are directed to follow the semester plans and submit work plans at the end of each semester. Work diaries are also maintained for verification by HOD and Principal.
- A systematic and effective internal evaluation system is in place in the college, closely monitored by the CLMC in tandem with the DLMC.
- Test papers, assignments, ICT aided seminars and project presentations are conducted regularly and evaluated.
- Analysis of results of both internal and external examinations is done by the DLMC and discussed in PTA meetings held every semester.
- Remedial coaching is provided to weaker students. The tutorial system is effectively implemented, whereby the tutor monitors the academic and personal needs of the students. Mentoring is also practiced, which allows personal interaction with the faculty and students, thus ensuring close monitoring of their academic progress.
- Walk with a Scholar (WWS) programme ensures that bright students achieve their academic objective through mentoring support. The percentage of pass, number of university ranks and grades are indicators of achievement.
- Feedback from stakeholders such as students, parents and employers is given due consideration and corrective measures are discussed and implemented.
- Value added programmes and activities for societal enrichment is also ensured through extension activities. Departments initiate and monitor all co-curricular and extension activities of the students.

1.2. Academic Flexibility

1.2.1. Specify the goals and objectives; give details of the certificate/diploma/skill development courses etc., offered by the institution.

The college has very few formal certificate courses, but offers many informal skill development programmes and initiatives. In this era of global competition in the employment sector, students need to be empowered with additional skills needed to secure and sustain employment and achieve success in life. The following initiatives of

the college ensure that students receive these skills in addition to the curricular programmes.

- A skill enhancement programme known as Additional Skills Acquisition Programme (ASAP) for students has been introduced from 2012 onwards. Our college is a Training Partner with the Government of Kerala in this venture which offers training in Communicative English, IT and other soft skills. So far, four batches have been trained from our college, and several of these students are employed as Skill Development Executives (SDEs) and Communicative English Trainers (CETs). Four of our Teachers of the English Department function as Master Trainers of the project and the college has gained 'Five Star' status based on a ten point scale to rate the performance of institutions involved in the Training Partner Scheme.
- The Career Guidance and Placement Cell (CGPC) offers a comprehensive training programme, providing special coaching for competitive examination conducted by Banks, which increase the employability of students. Group Discussions, mock interviews, Spoken English classes, personality development classes, computer training sessions etc are offered. Campus placement drives are held where many of our students gained employment. In the placement drive held in May 2016 in the campus, as many as 21 companies arrived and around 720 job seekers were placed in various companies.
- The Commerce department offers coaching classes for Bank tests and certificate courses in MS excel, which help in career advancement.
- The college has adopted the Walk with a Scholar (WWS) programme to ensure that bright students receive additional skill acquisition support along with their academic activities through external mentoring and classes by experts.
- The departments of the college offer coaching programmes in NET/JRF examinations.
- PSC and bank coaching is also offered by the CGPC and some teaching departments.
- The Civil Service Club conducts orientation classes and training for civil service aspirants.
- In the fifth semester of the UG courses, each student can select an Open Course out of 12 courses offered by the college. It provides opportunity to students to pursue inter-disciplinary studies, which helps them in future career options.
- The KELTRON, Govt. of Kerala offers training programmes in computer networking and software development.
- SD College acts as a sub Centre of Centre for Continuing Education Kerala under Government of Kerala. It offers advanced Diploma in Logistics and Retail Management and Professional Diploma in Hardware and Networking.

1.2.2. Does the institution offer programmes that facilitate twinning/dual degree? If 'yes', give details.

No. The college does not conduct any twinning/ dual degree programme.

1.2.3. Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability.

- The introduction of CBCSS by the University of Kerala has brought in a limited amount of flexibility with regard to courses.
- Students of various UG disciplines are able to come together in a common platform because of the interdisciplinary system of open courses. In the fifth semester of UG courses, each student can select an open course out of 12 courses offered by the college. It provides opportunities to students to explore new areas of interest outside their own stream of study, and helps them pursue a career of their choice.
- Grades in the common and complementary courses form the criteria for admission for higher studies in Humanities stream, providing a certain level of academic flexibility.
- PG departments upgraded as Research Centres offer facilities to students for research. Students from other institutions work as research scholars and their skills and scholarship is beneficial to the students of this college through academic interaction.
- PG departments have given freedom to select the elective courses as per the demand of the students from the list of elective courses suggested by the University.
- The college also offers career oriented and value added activities for students. The Women Studies Cell (WSC), NCC, NSS and the various clubs functioning in the college conduct awareness classes and activities related to topics of social relevance and global interest.
- The Career Guidance and Placement Cell conducts career awareness classes, training programmes in various job skills, and holds campus placement drives. Recently, many students were placed in jobs as a result of these initiatives.
- The Department of English conducts the ASAP as a 21 day residential programme for skill development and career advancement. Many students were trained as Skill Development Executives, thus increasing their potential for employability.
- The Commerce department offers coaching classes for Bank tests and certificate courses in MS excel, which help in career advancement.
- On- the- job training is given to students of Communicative English, Commerce, Economics and other departments.
- The Walk with a Scholar (WWS) programme offers academic and mentoring support to bright students.
- PG students who pursue projects in other colleges/universities get an opportunity to choose higher studies options and to familiarize themselves with sophisticated scientific equipments. Students from other colleges also come to this college to do their PG projects.

Table 1.3 List of open courses for UG Courses under CBCSS

Sl. No.	Name of the Course	Department	Period
1	Communicative Applications in English	English	2011-to date
2	Translation Studies	English	2011-to date
3	Malayalam Patrapravarthanam	Malayalam	2011-to date
4	Translation: Theory and Practice	Hindi	2011-to date
5	Astronomy and Astrophysics	Physics	2011-to date
6	Environmental Chemistry	Chemistry	2011-to date
7	Human Health and Sex Education	Zoology	2011-to date
8	Horticulture	Botany	2011-to date
9	Mushroom Culture	Microbiology	2011-to date
10	Operations Research	Mathematics	2011-to date
11	Human Resource Management	Economics	2011-to date
12	History of Human Rights Movements	History	2011-to date
13	Fundamentals of Accounting	Commerce	2011-to date
14	Health and Fitness Education	Physical Education	2011-to date

In P.G. Programmes, all the papers in the last semester are electives which help in improving potential for research in emerging areas.

Table 1.4: List of Elective Courses for PG (2013 Onwards)

SL.No	Name of Course	Department	Period
1	European Drama	Department of English	2013 onwards
2	African & Caribbean Literature	Department of English	2013 onwards
3	American Literature	Department of English	2013 onwards
4	Canadian & Australian Literatures	Department of English	2013 onwards
5	Agricultural Economics	Department of Economics	2013 onwards
6	Economics of Insurance	Department of Economics	2013 onwards
7	Nadodi Vijnaneeyam	Department of Malayalam	2013 onwards
8	Finance	Department of Commerce	2013 onwards
9	Operational Research	Department of Mathematics	2013 onwards
10	Differential Geometry	Department of Mathematics	2013 onwards
11	Field Theory	Department of Mathematics	2013 onwards
12	Analytic Number Theory	Department of Mathematics	2013 onwards
13	Advanced Electronics	Department of Physics	2013 onwards
14	Advanced Organic Chemistry	Department of Chemistry	2013 onwards
15	Environmental Biology	Department of Botany	2013 onwards
16	Endocrinology	Department of Zoology	2013 onwards

In the sixth semester of UG programme, each department offers an elective course with a view to help students in higher studies.

Table 1.5: List of Elective Courses for UG (2013 ONWARDS)

Sl. No.	Name of Course	Department	Period
1	Translation Studies	Department of English	2013 onwards
2	Tharathamya Sahityam	Department of Malayalam	2013 onwards
3	Bhasha Sahithya Samvadangal	Department of Malayalam	2013 onwards
4	Keraleeya Kalakal	Department of Malayalam	2013 onwards
5	Thirakadharechana : Sidhandavum Prayogavum	Department of Malayalam	2013 onwards
6	Malayala Patrapravarthanam	Department of Malayalam	2013 onwards
7	American Literature	Department of English	2013 onwards
8	Technical English	Department of English	2013 onwards
9	Business Communication Skills	Department of English	2013 onwards

10	Supramolecular, Nano Particles and Green Chemistry	Department of Chemistry	2013 onwards
11	Space Science	Department of Physics	2013 onwards
12	Agricultural Economics	Department of Economics	2013 onwards
13	Finance I	Department of Commerce	2013 onwards
14	Finance II	Department of Commerce	2013 onwards
15	Income Tax Law and Practice I	Department of Commerce	2013 onwards
16	Income Tax Law and Practice II	Department of Commerce	2013 onwards
17	Fuzzy Mathematics	Department of Mathematics	2013 onwards
18	Contemporary World	Department of History	2013 onwards
19	Bio-Safety in Microbiology	Department of Microbiology	2013 onwards
20	Economic Zoology-Vermiculture and Apiculture	Department of Zoology	2013 onwards
21	Biotechnology and Nanotechnology	Department of Botany	2013 onwards
22	Journalism	Department of Hindi	2013 onwards

1.2.4. Does the Institution offer self-financed programmes?

No. The College does not offer any self-financing programmes.

1.2.5. Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If yes, provide details of such programme and the beneficiaries.

- Walk with a Scholar Programme(WWS) meant to enhance the skills of selected bright students under mentoring
- Under the initiative of the Govt. of Kerala, a skill enhancement programme known as Additional Skills Acquisition Programme (ASAP) for students has been introduced from 2012 onwards. Our college is a Training Partner of this venture which offers training in Communicative English, IT and other soft skills. So far, four batches have been trained from our college, and several of these students are employed as Skill Development Executives (SDEs) and Communicative English Trainers (CETs). Four of our Teachers of the English Department function as Master Trainers of the project and the college has gained a five star status based on a ten point scale to rate the performance of institutions involved in the Training Partner Scheme.
- The Career Guidance and Placement Cell (CGPC) offers a comprehensive training programme, providing special coaching for competitive examination conducted by Banks, which increase the employability of students. Group Discussions, mock interviews, Spoken English, personality development classes, computer training sessions etc., are offered. Campus placement drives are held where many of our students gained employment. In the placement drive held in May 2016 in the campus, as many as 21 companies arrived and around 720 job seekers from different walks of life were placed in various companies.
- The KELTRON, Govt. of Kerala offers training programmes in computer networking and software development.

1.2.6. Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the course/combination of their choice? If 'yes', how does the institution take advantage of such provision for the benefit of students?

Being an affiliated College, the University allows little freedom for combining the conventional face to face and distant mode of education.

1.3. Curriculum Enrichment

1.3.1. Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

- UGC sponsored seminars, workshops and value added programmes are conducted by all departments, clubs and forums, and the IQAC of the college in order to supplement the curriculum and sustain academic interest.
- The college has adopted the mentoring programme offered by the Government of Kerala, namely the Walk with a Scholar (WWS) programme. Bright students from every UG class are selected and receive support in their academic programme from a team of internal and external experts. The Scholar Support programme (SSP) for slow learners has also been implemented.
- Soft skill development programmes like ASAP are organized. Career training programmes, coaching for competitive exams, training for group discussions, mock interviews etc. are conducted by the Career Guidance and Placement Cell.
- The Women's Studies Cell (WSC) functioning in the college executes multiple activities for women's empowerment. Special lectures on issues like legal rights, gender discrimination and sexual harassment are held, and International Women's day is celebrated with talks, food and craft fests and cultural programmes.
- Under the leadership of the NSS and NCC awareness programmes and lectures on issues like legal rights, environmental protection, hygiene and health and AIDS awareness etc are regularly organized.
- National commemorative days like Environment Day, Earth day, Gandhi Jayanthi, Science day, International Women's day etc are duly celebrated with campaigns, lectures, tree planting ceremonies and special programmes.
- NSS and Bhoomitra Sena organize various programmes for creating ecological awareness. Trees are planted, herbal garden is maintained, and various activities are taken up for building environmental consciousness among the staff and students.
- Training programmes are conducted by the NSS, NCC and WSC on leadership, personality development and self defence. The college also has several clubs which promote cultural activities and conduct art and literary events, sports and games etc.
- The teaching departments supplement their academic activities with various curricular and co-curricular activities through platforms like the Department Associations.
- The Malayalam department spearheads the activities of the reading week, where book exhibitions and sales, lectures and quiz programmes are organized.
- The English department promotes drama productions, literary magazines and newsletters by students to supplement the curriculum and foster creativity.

1.3.2. What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

- Teachers actively participate in the curriculum revision process at the university level. Seminars, projects etc are made mandatory for both UG and PG students for improving the academic skills of learners.

- The Career Guidance and Placement Cell offers a comprehensive training programme, providing special coaching for competitive examination conducted by Banks, which increase the employability of students. Group Discussions, mock interviews, Spoken English, personality development classes, computer training sessions etc., are offered. Campus placement drives are held where many of our students gain employment. In the placement drive held in May 2016 in the campus, as many as 21 companies arrived and around 720 job seekers were placed in various companies.
- The Department of English conducts the ASAP as a 21 Day Residential Programme for skill development and career advancement. Four teachers of the department function as Master Trainers in this programme.
- The Commerce department offers coaching classes for Bank tests and certificate courses in MS excel, which help in career advancement.
- Students are given opportunity through the activities of clubs, forums and the department associations to interact with representatives of major industries and other employment sectors. This gives them an opportunity to build awareness about the dynamic employment scenario and helps them to mould their knowledge and skills to suit the needs of the employment market.
- The Walk with a Scholar (WWS) programme gives students awareness and experience in realizing their full potential, leading to increase in their employability skills.

1.3.3. Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

- Research Departments in the college encourage students to take up research from areas related to gender, climate change, environmental education, human rights, etc.
- Some of the Open Courses offered by departments relate to these cross cutting areas like Journalism, Human Rights, Human Resource Management and environment. PG and UG projects are also encouraged in areas of local and global relevance.
- The Women's Studies Cell (WSC) functioning in the college executes multiple activities for women's empowerment. Special lectures on issues like legal rights, gender discrimination and sexual harassment are held, and International Women's Day is celebrated with talks and activities designed for women's empowerment.
- Every year there are many student projects on the issue of gender, ecology, human rights etc in the UG and PG levels in all departments. Language department offer elective courses in Journalism. Women's Writing is a core paper in the BA English and Communicative English courses. The Chemistry department offers electives like Green Chemistry, Zoology dept offers Vermiculture and Apiculture, Economics dept offers Insurance Economics, Microbiology dept offers Bio-safety, Commerce department encourages projects on women entrepreneurship and so on. A new course in Environmental studies has been introduced by the university in its general language courses in all disciplines.
- Informatics has been introduced as a compulsory course in all disciplines. IT facilities are used by both staff and students in all aspects of the teaching – learning process. Internal assessment procedures are all done online seminar presentation with audio-visual aids is also widely encouraged.
- The college has high speed internet connectivity. The library has extensive ICT facilities including IFLIBNET, NLIST and many e-resources. Besides students

have a wide choice of books, journals and web sources, photocopy and printing facilities.

- Under the leadership of the NSS and NCC awareness programmes and blood donation camps are held in the college. Awareness campaigns and lectures on issues like legal rights, environmental protection, health campaigns and AIDS awareness etc are also regularly organized. The Human Rights Forum functioning in the college conducts awareness classes.
- Under the Walk with a Scholar programme, students are introduced to topics of general interest and they are taken on study tours to enhance their exposure to such issue.
- National commemorative days like Environment Day, Earth day, Gandhi Jayanthi, Science day, International Women's day etc are duly celebrated with campaigns, lectures, tree planting ceremonies and special programmes.
- Bhoomitra Sena organizes various programmes for creating ecological awareness. Trees are planted, a herbal garden is maintained, and various activities are taken up for building environmental consciousness among the staff and students.
- Human rights forum in the college organises invited lectures occasionally to impart the knowledge on human rights violation taking place locally, nationally and globally.

1.3.4. What are the various value-added courses /enrichment programmes offered to ensure holistic development of students?

- The college does not have any formal courses and enrichment programmes beyond the prescribed courses and syllabus. However a number of orientation classes to promote holistic growth in students are organised by the various clubs and forums functioning in the college.
- The NSS, NCC and WSC regularly arrange value based lectures on personality development, leadership, anger management, time management, spirituality etc. and train the youth to give importance to ethics, values and morality in their lives.
- Various programmes in career guidance and counselling, ICT training, soft skills development and communication skills are arranged by the Career Guidance and Placement Centre. Training in group discussions, interviews, Spoken English, public speaking, etc are offered.
- The college is a training partner in the ASAP training program for skill development.
- Coaching for UGC/CSIR NET/JRF examination, civil service examination, bank tests, etc are given to students.
- Walk with the Scholar (WWS), a mentoring programme for bright students and Scholar Support Programme (SSP) for slow learners, have been implemented effectively.
- Commerce Department offers short certificate course in MS Excel.
- The NCC and NSS units of the college conduct various activities like blood donation camps, flood relief programmes, cleaning drives, donating books and essential items to schools, etc.
- The WSC also conducts awareness classes on gender discrimination and women's empowerment. Training programmes in self defence techniques and handicrafts are also provided.
- Annam Sanatanam is a novel initiative that seeks to develop social commitment and humanitarian impulses in students. Food packets are collected

and distributed free of cost to the needy in hospitals and destitute homes once a week by the staff and students of the college.

1.3.5. Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

- Based on the feedback received from industry including banks, the college has been offering special training programmes and placement drive, under the leadership of the Career Guidance and Placement Cell.
- Taking the feedback obtained from alumni and public into consideration, the college started the BA Communicative English Course in 2002 with a view to providing a vocational course in English communication skills.
- A BSc course in Microbiology and MA Malayalam were also started in 2014 and 2013 respectively.
- A demand for computer training is reflected in the feedback obtained from students. Many departments and the CGPC provide training in this area. The Commerce department offers a certificate program in MS Excel.
- Open courses like Malayalam Journalism, Communicative Applications in English, Operational Research, Horticulture, Human Resource Management etc and elective papers are chosen by the institution based on the feedback of stakeholders.
- The College has adopted the Walk with a Scholar (WWS) programme in order to offer academic support to bright students. The Scholar Support Programme (SSP) for slow learners is also implemented.

1.3.6. How does the institution monitor and evaluate the quality of its enrichment programmes?

- All co-curricular and extension programmes are coordinated and monitored by different faculty coordinators.
- The Career training programmes, ASAP and bank test coaching programme is evaluated based on the number of campus placements and direct recruitments obtained over the years. The observations and suggestions of the recruiters/ employers are also utilized to evaluate the training programmes.
- Student feedback is regularly collected and evaluated by IQAC for quality enhancement in all its programmes and activities.

1.4 Feedback System

1.4.1. What are the contributions of the institution in the design and development of the curriculum prepared by the University?

Board of studies members make suggestions in board meetings about the curriculum design and content, based on feedback received from students and discussions among staff.

1.4.2. Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing

1. There is an effective feedback system in place. Under the auspices of IQAC the college collects feedback on curriculum from students.
2. In addition to this the college collects feedback from outgoing students at the time of issuing T.C. from the college. This is kept by the Principal and used for suggesting improvements in curriculum. The Principal sends letters to the University regarding suggestions about curriculum.
3. Departments also collect feedback from students and parents in PTA meets.

4. There is also a system of syllabus evaluation by the students, teachers and parents and their observations are presented by the board of studies members in the curriculum review meetings and workshops conducted by the University.

1.4.3. How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/ programmes?)

A new programme, namely BSc Microbiology was introduced in 2014. M.A Malayalam was introduced in 2013. Four departments, namely Mathematics, Chemistry, Commerce and Economics were upgraded as Research Centres. Alappuzha has an important place in the socio-cultural and agricultural map of Kerala. The town is set in the midst of the coastal belt and the low lying areas of Kuttanad, the proverbial rice bowl of Kerala. Thus it has a unique geographical and social climate that fosters diversity and multiplicity in terms of language, arts, culture and economy. Alappuzha is the home of the famous literary and cultural icon Thakazhi Sivasankara Pillai. The Malayalam department of the college started the PG programme in 2013, and has initiated a slew of programmes to study and document the cultural heritage of Kuttanad, with special regard to the folklore of this agricultural region. The department plans to institute a Thakazhi chair to encourage studies in the diverse language, culture, agricultural practices and folklore of the region.

The course in Microbiology assumes relevance considering the high incidence of contagious and waterborne diseases like filariasis, dengue fever, chikungunya, etc which have been plaguing Alappuzha. There is a virology lab that was specially set up for this purpose.

Remedial coaching programmes of the UGC, a mentoring programme of the State Government, namely Walk with a Scholar (WWS), Scholar Support Programme (SSP) for slow learners and the skill development programme ASAP, also offered by the state government, were adopted by the college for student support during the last five years.

In addition to the existing two, four more PG departments that have been elevated as research centres are facilitating research in new and emerging areas that are beneficial to the local society.

The Centre for Aquatic Research developed under the Zoology Department undertook an award winning project on the recycling of aquatic weeds, which was a pressing environmental concern to Alleppey.

1.4.4. Any other relevant information regarding curricular aspects which the college would like to include.

The aided system does not allow for much flexibility as far as course content is concerned, but the college tries to maintain meaningful dissemination of the curriculum through extended and participatory learning, in order to fulfill the learning outcomes of the courses.

The college plans to start outreach programmes, consultancies and linkages, new value added courses, add-on courses and bridge courses in the future. The extension activities of the clubs, forums and the CGPC will be intensified to supplement and make meaningful the goals of education.

CRITERION II

TEACHING, LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

The college has no direct role in the process of Student Enrolment. Admissions to the UG, PG and Doctoral programmes are made directly through the Centralised Allotment Process in accordance with the general norms prescribed by the University of Kerala and the Government of Kerala.

2.1.1 How does the college ensure publicity and transparency in the admission process?

Though the admission process is handled by the University through a Single Window System, admission to the various academic programmes of the college is publicized through various channels/media as follows.

College Prospectus: College publishes its prospectus/calendar every year which contains essential information like academic programmes offered, eligibility and general guidelines for admission, course structure and syllabus, fee regulations, schedule of fees for each programme etc. The prospectus is made available through the college office.

Website of the college: The college website (www.sdcollege.in) provides ample information about the academic programmes offered, eligibility conditions, general guidelines for admission, profile of faculty, academic partners, co-curricular and extracurricular activities, facilities and services in the campus, various clubs and forums working in the campus etc.

Advertisements: Vacant seats remaining even after the completion of regular admission process is over are advertised. This helps in absorbing students from the socially backward students through spot admissions

Brochures: Separate brochures are printed for publicizing the academic programmes in the college.

Announcements through the local community: Details about admission to the community merit quota are conveyed to the members of the community through announcements made by the management.

The following ways are adopted to ensure Transparency at different levels in the admission process.

- The college constitutes an Admission Committee with Principal as Chairman to supervise the admission process.
- Till 2010 admission, the admission process was administered by the college as per the guidelines prescribed by the University of Kerala. But since 2010, admission process is administered by the University of Kerala directly through the Centralised Allotment Process (Single Window System).
- Of late, the University of Kerala has introduced admission through “online” single window system at the P. G. level. The College which is affiliated to the University of Kerala has followed this system from the year 2012 for P.G. admissions. This enables students from other districts to join the college.
- In the Community category, 10 percent of the students are selected on merit basis from students who are members of management community categories. Merit list is published on the college notice board.

- Management reserves its right to admit 20 percent students. Selection is done from among the applicants as per the government guidelines and discretion of the management. Rank list is published on the college notice board.
- Admission details are uploaded to the University portal.

2.1.2. Explain in detail the criteria adopted and process of admission (Ex. (i) Merit (ii) Common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

At present admissions to the UG and PG Programmes are conducted through the online Centralised Allotment Process (CAP) of the University of Kerala to which the college is affiliated. The online Centralised Allotment Process for Postgraduate Programmes (PGCAP) was started in 2012 and for Undergraduate Programmes (UGCAP) in 2010. Under CAP the university receives single application online for selected programmes in all the colleges under the University. The candidate need not submit separate applications in different colleges. Instead the candidate can specify his/her preference for the college (up to 5 colleges). On the basis of the preference of the candidates and availability of seats in different colleges, the university makes the allotment for all the merit seats both in the general category and in the reservation category.

Admissions to the UG and PG Programmes are done on the basis of merit. Marks or Grade points obtained in the qualifying examination are the basic criteria for admissions. Due weightage is given for dependents of Ex-service men, NSS/NCC certificate holders, and those with proficiency in art, culture etc.

In general merit and reservation quota admissions are made from the allotment list of the university. The admissions under Management Quota, Community Merit, Cultural/ Sports Quota, and Physically Handicapped Quota are done at college level from the merit list of each category. The merit/selection list is published in the notice board/ website. In case of complaints candidates can approach the Grievance Redress Cells functioning in the College and University.

The reservation policy of the Government of Kerala and the University of Kerala is strictly adhered to by the college in the admission process. Students are admitted strictly based on the Govt/University guidelines and regulations. The reservation policy of the Government, UGC and the University is implemented by the college. Accordingly, 50% seats are filled based on open merit, 20% reserved for SC/ST, 20% under Management Quota and 10% seats are filled under Community Quota. Being an affiliated college there is no provision to conduct entrance test for admission to conventional programmes, both UG and PG.

2.1.3. Give the minimum and maximum percentage of marks for a dmission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/ district.

The college offers 13 UG programmes and 9 PG programmes in the regular streams. Students are enrolled under various categories viz., open merit, reservation category, community merit, and management quota. Minimum and maximum percentages of marks for admission at entry level for each programme offered by the college, under each category are presented in table 2.1.

Table 2.1: Minimum and maximum percentage of marks for admission at entry level under various categories for the academic year 2015-16

Sl.No.	Programme	Maximum Marks (%)	Minimum Marks (%)
1	B.A English	97.50	64.43
2	B.A Communicative English	91.21	68.71
3	B.A Malayalam	85.82	70.46
4	B.A Hindi	80.57	48.07
5	B.A Economics	86.80	62.86
6	B.A History	92.64	57.64
7	B.Com	93.87	84.45
8	BSc Physics	97.00	69.64
9	BSc Chemistry	95.36	76.64
10	BSc Botany	93.43	72.86
11	BSc Zoology	92.93	55.00
12	BSc Maths	98.00	84.71
13	BSc Microbiology	94.71	61.90
14	M.A English	98.25	78.70
15	M.A Malayalam	95.61	82.98
16	M.A Economics	79.30	51.30
17	M.Com	89.50	50.75
18	MSc Physics	91.10	76.37
19	MSc Chemistry	94.77	83.44
20	MSc Botany	90.94	84.67
21	MSc Zoology	97.60	80.56
22	MSc Maths	97.48	72.90

The high entry level marks show that our college is considered as a good destination by students for their higher studies. Students are free to choose their options regarding their choice of colleges at the time of applying for courses through the Common Admission Process of the university. It is learnt that for most of the programmes our college was the first choice for majority of applicants. Moreover, it is evident from the admission data that Sanatana Dharma College was the first choice of most of the students admitted into the various programmes of the college.

The average highest and lowest percentage of marks in the open category for UG programmes in the college was 92.30 per cent and 67.49 per cent respectively during the previous academic year. The average highest and lowest percentage of marks in the open category for PG programmes in the college during the same period was 92.73 per cent and 73.52 per cent respectively.

As the admission to both the UG and PG Programmes are centralized and carried out online by the University, data is not available for working out a comparison of the minimum and the maximum marks of the institution with those of other colleges in the district.

2.1.4. Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes', what is the outcome of such an effort and how has it contributed to the improvement of the process?

Yes, the admission process is reviewed every year just after the close of the admission. An admission committee performs the duty of managing the entire admission process. Every year, admissions are made strictly in accordance with the Government stipulations, under the supervision of a committee consisting the Heads of the Departments, the Principal and the Manager which constitute the admissions committee. Academic merit is the prime consideration for admissions. The chairman of the admission

committee is the Principal of the college. The Admission Committee convenes meetings with all HODs to assess the admission process in general and student profile in particular. HODs are asked to report the profiles of the students admitted to their respective departments. The category wise (open merit, reservation, and community merit and management quota) list of students with their highest and lowest percentage of marks in qualifying examination is reviewed by the admission committee.

The committee reviews the previous years' processes and required modifications are suggested for the future. The grievances reported during admission are considered and appropriate decisions are taken. A helpdesk is available throughout the admission schedule for the guidance of for parents and applicants. After analysing the demand for each programme, college applies for a marginal increase in seats. Recently, some policy changes were made with respect to the management quota admission.

- To provide opportunity to students with relatively better profile, cut - off marks are fixed.
- The availability of the seats in the management quota is published in the college notice board.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate how the admission policy of the institution and its student profiles demonstrate/reflect the national commitment to diversity and inclusion.

From the very inception of the college, it is inclusive in accommodating students from different socio-economic strata and therefore equity considerations have always been upheld in the admission policy. The admission policy of the college helps in providing better access to different disadvantaged communities. The profile/category of students in the college during the last 5 years is indicated below. The college strictly follow the reservation policy as per the statutes. Every year 50 per cent seats are filled on the basis of open merit, 20 percent management quota, 10 percent community quota, 15 percent reserved for SC, 5 per cent for ST and 1 seat in every programme is reserved for differently abled with the only exception that no blind student is admitted to science subjects.

Table 2.2: Percentage of Students belonging to Different Categories(UG and PG students)

Categories	2011-12	2012-13	2013-14	2014-15	2015-16
Total (In Number)	1947	2048	2106	2216	2283
Percentage of Students Belongs to Different Categories (% to total)					
General	31.79	34.08	35.47	35.38	36.88
SC	10.99	11.04	11.40	12.32	14.10
ST	0.05	0.24	0.19	0.50	0.44
OBC	15.87	15.19	13.39	12.55	12.48
OEC	8.27	7.08	6.65	8.48	8.72
KPCR	31.43	29.49	28.21	24.82	23.17
SEBC	3.54	3.96	4.80	4.78	4.12
Christian	7.14	9.86	9.59	9.07	8.67
Muslims	7.19	9.38	8.50	7.81	7.18
Differently Abled	0.26	0.54	0.52	0.49	0.22
Women	68.26	63.33	66.33	65.30	67.46
BPL	70.15	67	64.64	63.45	63.03

1. **SC/ST:** The inclusive character of the college is evident from the admission in the SC/ ST quota. The mandatory reservation of seats for this category is 20 percent. Percentage of SC/ST students to the total students enrolled in the college in 2015-16

was 14.54 per cent which itself is an indication of the accessibility of SC/ST communities to the college.

The management advances the hostel fees of SC/ST women inmates in the college hostel and fees will be reimbursed as and when grant from government is released. In the ladies hostel 20 per cent is reserved for the SC/ST category students.

2. **OBC/OEC:** The inclusive character of the college is also evident from the admission given to Other Backward Communities (OBC). In spite of the fact that there is no mandatory reservation of seats for students belonging to OBC/OEC communities, above 17 percent of the students admitted in the year 2015-16 were from OBC/OEC communities.
3. **Women:** Empowerment of women was a matter of concern to the college even from its inception. Over the years women have outnumbered men in almost all the academic programmes. Today they constitute nearly 67 percent of the total student population in the college. The college offers all facilities in the ladies hostel. A common rest room is provided to them in the College. Women's Studies Cell provides ample avenues for the development of girl students.
4. **Differently-abled:** As per the government guidelines 3 % of the seats are earmarked for students who are differently abled or challenged physically. This 3% is shared equally by the categories viz., visually challenged, hearing impaired and orthopaedically disadvantaged. Each of these categories gets 33% percent out of the total 3 percent reservation for the differently abled. The College is liberal in providing admission to differently-abled students. An applicant is considered for admission in this category only if he/she has minimum 40 % disability.
5. **Economically weaker sections:** Priority is given in the management quota for economically weaker sections. More than twenty percent of the students admitted in the college are from economically weaker sections. Among the various discretionary scholarships, about 90 percent was given to the economically weaker sections. Fee concession as per Kumara Pillai Commission Report (KPCR) of the State Government is provided to them. Accordingly, full fee concession is given to students whose annual income is below Rs. 25, 000/- for UG courses and for the PG Courses it is fixed below Rs. 42, 000/-.
6. **Minority community:** Eventhough the college is not liable in making arrangements for providing special reservation of minority community as per government rules, 15.85 percent of the total students in the college belong to the minority communities. Even in management quota, students are enrolled from Christian and Muslim minority communities.
7. **Sports Quota:** Seats are reserved for students who have achievements in sports in each programme as per the rules of the Government of Kerala and University of Kerala. Apart from this, the students who have excelled in the field of sports and are eligible for higher studies are given due consideration for admissions.
8. **Management Quota – Distributional Aspects**
Though the management quota is specifically aimed at admitting students from the management community categories (Brahmin, Nair and Other management Community), the management shows commitment in giving opportunities to admit meritorious students having low income level from other communities such as Other Hindus (SC/ST), Ezhavas, Christians and Muslims. The table 2.3 is a testimony to the management's commitment to diversity and inclusion.

Table 2.3: Distribution of Management Seats for UG Courses for the year 2015-16
(Category-wise analysis)

Sl. No	Course	Management Communities	Other Hindus	Ezhavas	Christian	Muslim	Total Management Seats
01	B.A.Economics	5	1	2	2	2	12
02	B.A.History	-	1	4	4	1	10
03	B.A.English	2	1	3	2	2	10
04	B.A.Comm.English	1	-	3	3	-	7
05	B.A.Hindi	-	1	5	-	1	7
06	B.A.Malayalam	-	1	3	4	2	10
07	B.Sc Mathematics	9	1	1	1	-	12
08	B.Sc Physics	4	1	4	-	-	9
09	B.Sc Chemistry	2	-	5	-	2	9
10	B.Sc Botany	-	3	3	1	2	9
11	B.Sc Zoology	2	2	2	1	2	9
12	B.Sc Microbiology	3	1-	2	-	-	7
13	B.Com	12	2	4	2	4	24`
	Total	40 (29.63)	15 (11.11)	42 (31.11)	20 (14.81)	18 (13.34)	135 (100)

Note: Figures in parentheses give percentage to total.

Source: Files Related to Management Quota Admission, Management Office.

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.

The college offers 13 Undergraduate Programmes and 9 Post Graduate Programmes in the regular stream. The number of applications received for each programme and the demand ratio are presented in .table 2.4.

Table 2.4: Demand ratio for UG and PG programmes (2011-12 to 2015-16)

Sl. No.	Programmes	Number of Applicants					Number of Students admitted					Demand Ratio				
		2011-12	2012-13	2013-14	2014-15	2015-16	2011-12	2012-13	2013-14	2014-15	2015-16	2011-12	2012-13	2013-14	2014-15	2015-16
U.G PROGRAMMES																
1	B.A English	247	212	275	236	302	47	44	51	50	49	5:1	5:1	5:1	5:1	6:1
2	B.A Communicative English	203	189	234	247	289	36	35	37	37	37	6:1	5:1	6:1	7:1	8:1
3	B.A Hindi	112	134	115	156	108	30	37	35	35	35	4:1	4:1	3:1	4:1	3:1
4	B.A Malayalam	169	173	146	202	197	49	48	44	48	50	3:1	4:1	3:1	4:1	4:1
5	B.A History	174	189	221	263	247	48	47	47	47	51	4:1	4:1	5:1	6:1	5:1
6	B.A Economics	355	378	331	319	389	62	59	61	62	60	6:1	6:1	5:1	5:1	6:1
7	B. Com	457	448	490	476	489	119	122	126	123	123	4:1	4:1	4:1	4:1	4:1
8	BSc. Mathematics	265	259	221	261	278	56	57	58	59	59	5:1	5:1	4:1	4:1	5:1
9	B Sc. Physics	332	366	472	464	495	38	46	46	44	45	9:1	8:1	10:1	11:1	11:1
10	BSc. Chemistry	345	391	406	456	478	39	44	41	43	43	9:1	9:1	10:1	11:1	11:1
11	B Sc. Zoology	167	134	189	231	219	39	45	40	45	47	4:1	3:1	5:1	5:1	5:1

12	B Sc. Botany	102	134	197	256	234	39	46	40	46	41	3:1	3:1	5:1	6:1	6:1
13	BSC Micro Biology	--	--	--	78	114	--	--	--	32	32	--	--	--	2:1	4:1
P.G PROGRAMMES																
1	M.A English	236	215	258	298	287	17	19	20	19	20	14:1	11:1	13:1	16:1	14:1
2	M.A Malayalam	--	--	93	106	128	--	--	14	20	20	--	--	7:1	5:1	6:1
3	M.A Economics	198	219	195	243	232	20	18	18	21	18	10:1	12:1	11:1	12:1	13:1
4	M Com	265	269	297	325	319	19:1	20:1	20:1	19:1	21:1	14:1	13:1	15:1	17:	15:1
5	MSc. Mathematics	134	146	129	158	175	20	20	20	20	20	7:1	7:1	6:1	8:1	9:1
6	M Sc Physics	98	113	104	132	158	38	46	46	44	45	3:1	2:1	2:1	3:1	4:1
7	MSc.Chemistry	89	104	91	84	121	26	26	26	26	26	3:1	4:1	4:1	3:1	5:1
8	M. Sc. Botany	76	84	102	132	118	18	17	18	18	17	4:1	5:1	6:1	7:1	7:1
9	M Sc. Zoology	96	89	121	108	131	16	14	16	16	16	6:1	6:1	8:1	7:1	8:1

Note: The demand ratio is calculated by dividing the total applications with the total student strength permitted by the University. However, it is to be noted that under CAP the college receives separate applications under Management quota, Community Quota, Sports quota and seats reserved for candidate with proficiency in arts.

The data presented in the preceding table show that the demand for almost all programmes in the college is increasing. Online registration for admissions exposed availability of seats to a large group of student population, spread over wide geographical area.

2.2 Catering to Diverse Needs of Students

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The College strictly adheres to the Govt/University policies and reservation norms regarding the differently-abled students. One seat in every programme of study is set apart for such students. The college takes all care in providing all comforts in academic matters and physical wellness. The class rooms for the differently-abled students are arranged on the ground floor. Braille materials are available in the library for the visually challenged. Ramps are constructed to ensure the free mobility of the physically challenged students. A scribe is allowed for the visually and physically challenged students for writing the university examinations. They are given additional time of half-an-hour for writing University examinations. A wheel-chair is available in the college provided by IQAC. Toilets are available on the ground floor. The vehicles of differently-abled students are allowed to reach near the building/classrooms. Other students are motivated to help differently-abled students in all their needs. Orientation/Enlightening classes, counselling and placement assistance are extended to differently-abled students. If the situation warrants, the College re-allocates classrooms for the convenience of such students.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

Yes. The knowledge and skills of students are assessed immediately after the commencement of every study programme.

- A diagnostic test is conducted for first year students at the UG level to identify and categorize students as primary, intermediate and advanced learners. This test is conducted after the completion of the admission process to differentiate

students on the basis of their calibre and intellectual level. Once the advanced learners are identified, they are initiated into new areas of knowledge according to their aptitude, while students of the intermediate level are given enough support from the faculty enabling them to achieve a higher level of excellence. The weaker sections of students are given remedial classes so that they would be able to cope up with the curriculum and also improve their skills of learning.

- A one - day induction programme (Batch-wise) is organised for the undergraduate students before the commencement of every academic programme. The coordinator and the faculty members who are members of the College Level Monitoring Committee (CLMC) give leadership to this programme. In the concluding session, the areas of interest and proficiencies of the students are identified, and the students are introduced to various curricular and co-curricular activities on the basis of their interest and skills.
- At the department level, the previous performance of the students is evaluated through different interactive sessions during the initial days of commencement of classes. Exclusive initiatives are taken in this regard by the departments to identify and assess the special needs of differently abled students. Some departments collect profiles on the proficiency of students and others conduct workshops for skill assessment.

2.2.3 What are the strategies drawn and deployed by the institution to bridge the knowledge gap of the enrolled students to enable them to cope with the programme of their choice? (Bridge/Remedial/Add-on/Enrichment Courses, etc.)

- a) **Remedial Programme:** The College has a UGC sponsored remedial programme. Remedial courses are conducted by the teachers usually at zero hours i.e., from 9 to 10 am, during free hours and also on holidays.
- b) **Tutorial System:** Teachers are assigned the duty of tutoring specific number of students who are given special attention and monitoring their progress in studies. Teachers who are assigned tutorial duty prepare a detailed biodata of the concerned students, which they keep with them for ready information. Students who perform well are assisted and provided with extra materials to enhance their knowledge level and remedial coaching is arranged for weaker students under the initiative of the teacher in-charge.
- c) **Bridge courses** are conducted by certain departments for the benefit of freshers. Crash programmes, special coaching, spoken English classes, etc. have been organised to fill the gap.
- d) **Add –On Programmes:** The College offers add-on programmes to develop the multifaceted abilities of students. Department of Commerce offers Certificate Programme in Financial Accounting. With the help of **KELTRON**, special training in IT are given to needy students. The continuing education of this **KELTRON** sub centre in the college offers a variety of certificate courses for nurturing job oriented skills among the students. The sub centre of Centre for Continuing Education Kerala functioning at SD College offers advanced Diploma in Logistics and Retail Management and Professional Diploma in Hardware and Networking.
- e) **Enrichment programmes** of varied types are offered to cater to the higher level academic needs. These include:

- i. The Open Courses opted by the college for all the UG programmes offer a wide range of avenues to the students in enriching their career prospects through horizontal academic mobility. Each student has to take a course unrelated to their own subject, which helps them to expand their horizons and become aware of parallel and alternative career opportunities. For example, courses like Journalism, Communicative Applications in English, Human Resources Management, Horticulture etc have helped students in their career orientation and enhanced their job skills.
- ii. Personality development and leadership training programmes, value and moral education, spiritual orientation programmes and legal awareness programmes conducted by various clubs and forums like NCC, NSS, WSC etc have helped in this effort.
- iii. With the aid of the Higher Education Council, Government of Kerala, the **Scholar Support Programme (SSP)** started in the College aims to support academically weak students from the various departments. Remedial coaching classes are arranged in the college for weak students on a regular basis under the leadership of a team of teachers.
- iv. The **Walk with a Scholar (WWS)** programme was adopted by the college for bright students, in order to assist them in their curricular and co-curricular activities. Two or three students from each class are chosen and special classes, training programmes and interactive sessions are arranged for them, by the faculty of the college as well as external experts. They are also given financial assistance to purchase study materials and are taken on study tours.
- v. The State Government along with the Department of Higher Education and General Education launched a project named **ASAP (Additional Skills Acquisition Programme)** in 2012. The aim of the project is to increase skills in various fields, and to enhance their employability and career prospects. The students were given training in Communication Skills in English, Confidence Building, Public Speaking, Creative Thinking, Soft Skills, IT Skills, etc.
- vi. The Career Guidance and Placement Cell (CGPC) has been providing career guidance sessions, training programmes and skill enhancement classes for the past few years now. The areas covered included information on career awareness and job opportunities, banking and management, ITC skills, communicative skills and soft skills, group discussions and interviews.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The College sensitizes its students and staff on aspects of social relevance through the activities systematically undertaken by various clubs/forums and initiatives such as Women's Studies Cell (WSC), Boomithrasena, Film Club, Eco Club, Literary Club, NSS, NCC etc.

Gender: There is a Women's Studies Cell (WSC) in the college working to attune women to the progressive changes in the educational, cultural, socio-historical and legal realms of life. The WSC works towards a gender-just society where womanhood is celebrated. Capacity building workshops, seminars on women's issues, invited lectures on health, management, legal rights of women, etc., are organised for women teachers and students. The WSC undertakes activities and programmes exclusive for gender

sensitization and women empowerment and takes care of the welfare of the girl students. This Cell is constituted of an executive council, headed by the Principal as Patron and representatives of lady teachers from all departments. One among them acts as Coordinator of the Centre; currently she is Dr. Bindu Nair, Associate Professor in English. The Centre conducts talks, campaigns and awareness classes by experts in women's studies, training programmes in self defense, Yoga classes for girl students, mental health, personality development and confidence building, women empowerment etc.

Inclusion: To keep up with the vision and mission, the college emphasizes educating and illuminating the young generation to build up a strong and progressive nation where the rich values and traditions of our culture are upheld. The students are motivated to preserve and encourage noble values. The college has always been inclusive in its approach and has actively worked towards providing equal opportunities for the weaker sections of society, women and the differently abled. Students are involved in different ways in this effort viz., conduct of socio economic survey, organisation of resources and distribution of food kits to the needy as per the 'Annam Sanatanam' programme. Sanatanam Can Care is a programme that helps to create awareness about lifestyle diseases like cancer. The forums like NSS, NCC, and WSC actively involve students in activities like visits to destitute homes, orphanages and other platforms that build their awareness about the weaker sections of society. Remedial coaching is provided to SC/ST students.

Environment: There is a concerted effort among the management, staff and students of the college towards inculcating and perpetuating an environmental consciousness in the campus. The college has taken up the practice of environment protection and bio`diversity conservation as a best practice through green platforms like Haritha Sanathanam and Bhoomitrasena Club. The various clubs and forums like the NSS, NCC and the Eco Club, conduct lectures, seminars, exhibitions, Poster presentations, and awareness campaigns to sensitise the staff and students on environmental issues. The NSS is involved in nature conservation; tree planting and anti-plastic campaigns, cleaning programmes in public places, *shramadaans* on Gandhi Jayanthi etc. Students of the NSS participated in a three day nature camp conducted in Periyar Tiger Reserve, Thekkady. Bird watching and trucking were also a part of the camp and it helped the volunteers to know more about nature.

The **Bhoomitrasena Club** takes the initiative in planting and maintaining trees, vegetable and herbal gardens. Tree planting ceremonies are held to commemorate important events like Independence Day, Republic Day, Environment Day, AIDS Day, Blood Donors' Day, Peace Day, Gandhi Jayanthi etc. Every year the college (under the leadership of the Botany department) conducts the Agri-Horticultural Exhibition. A unit of the **National Environment Awareness Campaign (NEAC)**, a project that comes under the Ministry of Environment, Forests and Climate Change (MOEF), was set up in the college. It promotes awareness about environmental conservation and preservation of biodiversity, and is a participatory learning platform for students, teachers and the local public about environmental issues. NEAC conducted many activities, including setting up a herbal nursery, hosting a seminar on bio-diversity and producing a **docu-fiction film** on traditional medicinal practices titled "**Uravu**".

The students of the Zoology Department, under the guidance of Dr.G.Nagendra Prabhu, submitted a project on the innovative recycling of aquatic weeds, which won the Mathrubhumi Seed Spark Award in 2013. The Drama Club organised street plays on

themes of social and environmental relevance in the campus, as well as in Alleppey town. Waste management is practiced wisely. E-Waste is collected and stored separately and disposed every year. Documentary films shows are conducted on environment related issues such as Western Ghats, Marine Eco-system etc. Use of plastics in the campus is discouraged. Use of nails on trees for affixing posters is prohibited.

2.2.5 How does the institution identify and respond to special educational/ learning needs of advanced learners?

The learning needs of advanced learners are identified primarily through interactions of course teachers and tutors with the students, performance in internal examinations and semester-end feedback forms of students. The tutorial system is highly effective in guiding and mentoring students. The tutor develops a personal rapport with their wards and assistance is given to students in all walks of life as far as possible. Personality development programmes and seminars are organized for the students which guide them in the different aspects of life.

Walk with a Scholar Programme (WWS): The Walk with a Scholar (WWS) scheme proposes to arrange specialized mentoring programmes for students in Undergraduate programmes to provide guidance for their future. The scheme introduces the idea of mentoring and builds on the concept of mentor as a "guide" and "friend". The programme aims at providing guidance, and motivation to identify appropriate areas for higher studies, employment opportunities and to help them realize their full potential through a holistic approach towards personality development.

The Civil Service Club is a student support wing to give training for civil service examinations. It gives regular and intensive orientation classes and training to selected students. Smt. Karthika, Assistant Professor in English serves as the coordinator of the programme.

Project works on challenging areas /subjects are given to the PG students who aspire for doctoral studies so that the same topic may be continued their doctoral studies.

Interactive sessions with eminent scientists are arranged for UG and PG students to update them with latest developments in the field of science and technology. **NET coaching** is given to students in all PG programmes. Extra handouts and reading materials are provided and they are encouraged to consult reference material and websites. The advanced learners are also deputed to outside programmes for debates, quiz, research paper presentations etc.

The **Physics Department** gives two year rigorous training to selected M.Sc Physics students, simultaneously with their regular study programme to enhance their skill and knowledge to excel at the national level examinations.

ASAP (Additional Skills Acquisition Programme), an innovative programme aimed at increasing skills in various fields, and to enhance the student's employability and career prospects. The students are given training in Communication Skills in English, Public Speaking, Creative Thinking, Soft Skills, IT Skills, etc. The College conducts twenty one-days residential training programmes for selected students, spearheaded by the Department of English, whose faculty are the Master Trainers. Students who have completed the training are inducted as skill executives, and they function as trainers for ASAP sessions held in schools. In addition to this, the Career Guidance and Placement Cell has been providing career guidance sessions, training programmes and skill enhancement classes. The areas covered include information on career awareness and job opportunities, banking and management, ITC skills, communicative skills and soft skills, group discussions and interviews.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc.) Who may discontinue their studies if some sort of support is not provided?

The risk of drop out is managed in different ways as follows:

- In each department the tutorial system under the leadership of a mentor/tutor has been introduced. Students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections, etc are given special attention and assistance to overcome the difficulties in learning.
- The faculty advisors evaluate the progress in learning and performance and thereafter arrange a personal counselling session with the students whose performance is not satisfactory.
- Poor students are identified and provided with all support including financial assistance at department level and teachers personally.
- Remedial classes are conducted for the benefit of slow learners to avoid drop out due to fear of curriculum.
- Attendance is closely monitored by class teachers with a view to avoid attendance shortages and consequent drop outs.
- The course teachers constantly interact with parents through PTA meetings.
- DLMC Meeting: At the end of each semester Department Level Monitoring Committee (DLMC) is conducted to evaluate the academic and non-academic activities of the previous semester.

All the above methods proved successful in reducing the dropout rate to the minimum. The overall drop out rate is less than 2 per cent for the UG Programmes. It is for the purpose of joining professional courses such as Medicine, Engineering, Law, etc. For PG programmes the drop out rate is low at 0.63 per cent.

2.3. Teaching-Learning Process

2.3.1. How does the college plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blueprint, etc.)

1. **Academic Calendar:** The College performs the entire teaching and learning activities in an academic year based on a broad framework/plan given in the College Academic Calendar. It is prepared by the IQAC at the beginning of an academic year in line with University Academic Calendar. The heads of the departments and the faculty in charge of various curricular/co-curricular activities and clubs/forums furnish a detailed schedule to the office at the beginning of every academic year. The academic calendar gives expected dates of commencement of classes, completion of classes, working days in each month, internal examinations, publishing of results of internal examinations, submission of results of internal examinations to the University, end semester (University) examinations, dates of curricular/co-curricular activities and important holidays in each semester.
2. **Teaching Schedules:**
 - a. **Preparation:** For the effective conduct of the lectures the college follows a time table. A general time table is prepared for Common and Open

Courses by the college. Then the detailed subject-wise time table for Core and Complementary Courses prepared by the Departments are incorporated to prepare the Consolidated Time Table. The time table for PG Programmes are then incorporated into the consolidated Time Table. For remedial courses, bridge courses, add on courses, NET/civil service coaching etc the departments independently set the time without affecting the general time table.

- b. **Implementation:** Preparing the time table, allocating courses among teachers, assigning tutorships etc are carried out by the HoD in consultation with all other faculty members in the department level monitoring committee (DLMC). The portion allotted to each teacher is completed and test papers, seminars and terminal examinations are conducted at regular intervals. A Model examination is conducted at the end of each semester. The teacher- in- charge is responsible for conducting class tests and model examination from time to time.
3. **Teaching/Work Plan:** Teachers prepare the semester- wise teaching plan of the topics allotted to each of them according to the Semester plan prepared by the IQAC, in line with the University semester plan. A micro level planning of teaching-learning activities is then done by the course teachers concerned by preparing the Work Plan. It gives a detailed break up and scheduling of various activities such as teaching of each module, submission of assignments, presentation of seminars etc
4. **Work Diary:** Teachers keep a daily work record which is periodically evaluated by the HoD and the Principal. This practice ensures effective implementation of the academic plan. The work diary is printed and distributed by the IQAC at the beginning of every academic year.
5. **Monitoring by CLMC:** College Level Monitoring Committee (CLMC) is the entity that directly monitor the conduct of the UG courses under Choice Based Credit and Semester System (CBCSS). Termly examinations, model examinations, etc. are scheduled in the CLMC meetings.
6. **Evaluations Schedules:** CLMC functions at the college to plan, organise and implement the internal examinations. The scheduling of all aspects regarding the two internal examinations viz., dates of setting of question paper, conduct of examinations, return of answer scripts, publication of results (Continuous Assessment) and holding of PTA meeting are decided in advance and conveyed to the students.
7. An evaluation blue print showing the allotment of marks, question numbers, etc is given on the facing sheet supplied in the examination hall. Details about the pattern/types of questions, number of questions to be answered in each section, weights/marks/credits for each question, etc. are published in the College Handbook and University website.
 - After closing the admission, the CLMC organises an Induction Programme in which the Principal, the CLMC Coordinator and a team of teachers introduce the academic programmes, various activities and the rules of the College to the students.
 - Meetings of the IQAC, College Council, CLMC and departments are held at regular intervals to review the progress of the academic plan and suggest remedial measures wherever required.

2.3.2. How does IQAC contribute to improve the teaching –learning process?

As per the NAAC recommendations an Internal Quality Assurance Cell is constituted in the college to look after the effective implementation of teaching-learning process. The IQAC is expected to activate the system and raise the institutional capabilities to higher levels so that the institution makes continuous improvement in Quality. The IQAC is responsible for identifying various processes that develop capabilities and augment institutional quality.

- IQAC develops documentary frameworks for the sustenance and improvement of quality in the teaching learning process and evolves a plan of action for the smooth conduct of these initiatives and submits it to the Principal and College Council for implementation.
- The IQAC offer suggestions to the Management in providing the infrastructural and other facilities on the campus to improve the quality in Teaching-Learning process.
- The designing and modification of work plan, work diary, progress report, student feedback forms are done by the IQAC. It also monitors and reviews the teaching-learning and evaluation process, and makes suggestions for improvement.
- The IQAC facilitates the creation of a learner-centric environment conducive to quality education and faculty maturation. It maintains files related to all the quality enhancing initiatives, and keeps a file for each department in the college.
- Conducts inter and intra institutional workshops, seminars and conferences on quality-related themes, to explain the scope and potential of new initiatives and to collect feedback.
- Conducts Internal Academic Audit every year and suggestions for the improvement of the teaching-learning process are given to departments.
- IQAC plays a major role in improving the performance of the college library.
- Arranges for feedback response from students, parents and alumni on the institution and curriculum.
- Documentation of the various programmes and activities leading to quality improvement is also done by IQAC.

2.3.3. How learning is made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Students are exposed to a different class room environment rather than concentrating only on the conventional lecture method. The learning environment of our students is made student centric by adopting different methods of active learning, independent learning, and collaborative learning in the following ways.

- An Induction programme is conducted to initiate new students into the institutional set-up. This Induction programme facilitates the students to become familiar with the various facilities available in the college. This also helps in reminding the students of their prime objectives and social commitments and maintaining a rapport between the new-comers and the teaching community.
- The restructured curriculum both for PG and UG promotes interactive, collaborative as well as independent learning. The UG curriculum consists of seminar presentations, group projects, and assignments.

- The internal evaluation/grades of students are based on their performance in seminars, projects and assignments.
- A system of Peer Teaching is adopted by many of the departments to ensure an active role for students.
- Problem solving, laboratory experiments, Group discussions, debates and quiz programmes are conducted to support interactive learning.
- ICT-Aided learning and seminar presentations are advised and promoted among both PG and UG students.
- Feedback is collected from students through Campus Satisfaction Surveys (CSS) and is taken care of for implementation.
- Language departments encourage students to produce literary magazines and enact and produce dramas which promote alternative learning methods. Literary fests, library visits and reading week celebrations etc are held, which lead to self learning among students. The modern language software facilities of the language lab are also made use of and a Theory Study Circle (TSC) was formed for students in English literature for independent learning.
- Group Projects: Project work in the sixth semester of UG programmes are done in the collaborative learning method. Topics selected are those that further increase the independent research skills of the students.

Support Structures and Systems

- Departmental associations are organized. Students take the leadership and organize a variety of programmes under the guidance of the HOD and Tutor.
- The academic freedom of the teachers enables them to adopt appropriate teaching methodology within the framework of the curriculum.
- College provides necessary infrastructure support such as a well stocked library, Internet Connectivity, Computer Facility, Science Laboratories, LCD projectors, Audio-visual labs, language labs Interactive Boards etc to support the teaching learning process.

2.3.4. How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

- Well known personalities and scientists such as Padmasree Prof (Dr.) N.R. Madhava Menon, Sri. K. Jayakumar IAS, Dr. G. Madhavan Nair (ISRO), Dr. Prof. Mikhail. V Volkov (Russian federal University), Dr.V. P. Gangadharan, Dr. K Jayakumar, Mr. Ramakrishnan, Mr.Venkitakrishnan, Mr.Benyamin, Dr. M.V. Narayanan, Retd. Justice K.T Thomas Dr.Edamana Prasad, Dr.S. Kevin, Mr.Kamal, Dr. Ciriack Thomas, Dr. D. Narayana, etc. were invited and interactive sessions are conducted to promote critical thinking and scientific temper among students.
- Inter-collegiate and state level workshops and co-curricular activities are organised by various departmental associations coordinated by students. It promotes organisation skill and creativity among students.
- Undergraduate students do group projects and PG students are required to do individual projects as part of their study. It creates research aptitude and scientific temper in them.
- The participation of students is made compulsory in the

- seminars/conferences/invited talks organized by their respective departments.
- Leading newspapers in India, important journals in all disciplines, career magazines, etc are subscribed by the college library to enhance reading habit and general knowledge of students.
 - Reading week is celebrated as a best practice to inculcate reading habits among students. Literary magazines and plays are produced by the students to enhance their independent learning skills.
 - Students are given opportunities to visit National research institutions like IISER, ICSSR, CMFRI, TBGRI, etc. The College also promotes activities of the college students' union and appreciates their activities and initiatives like Women's Day, Arts Day, and Youth Festivals etc.
 - Visits were arranged to research institutes /industries/ libraries to create scientific temper among the students.
 - Mentoring programme through Walk with a Scholar was implemented to offer academic support.
 - Creative writing skills of students are nourished through campus newspapers, literary magazines, drama productions, departmental bulletins and college magazines.
 - The Civil Service Club motivates students for in-depth study in their discipline as well as general studies.
 - Department level associations help teaching-learning through co-curricular activities, subject-level competitions, exhibitions, study tours etc.

2.3.5. What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

- The college is the nodal centre for virtual laboratory in collaboration with Amrutha Viswa Vidyalayam, Kollam. Two faculty members were given training by the service providers. An in-house training programme was organised by the college for the members of science faculties with the support of the trained teachers.
- N-LIST programme of INFLIBNET provides online access to information sources, books and national and international journals.
- 136 computers linked with LAN with free internet access, located in 12 departments and computer centres provide basic ICT support for teaching, learning and evaluation process.
- 10 classrooms have been developed as smart classrooms with the support of LCD projectors. Besides, Interactive Boards are provided to 5 departments.
- Language lab with modern software provides ICT enabled support for imparting language skills.
- 5 research laboratories and 12 spacious UG and PG laboratories provide facilities for effective learning.
- Moodle Learning Management System is being implemented.
- Our faculty and research scholars have access to electronic theses and dissertations through Shodh-Ganga, a project of UGC.
- In all P.G departments there is at least one projector enabled classroom.

2.3.6. How are the students and faculty exposed to advanced level of knowledge and skills? (Blended learning, expert lectures, seminars, workshops etc.)

- Blended learning is taking place to a limited extent. Students submit assignments online, take seminars with the help of Power Point, etc. In many departments teachers make use of the online facilities in the classes.
- All departments organize conferences/seminars/workshops etc every year
- Invited lectures by distinguished scientists/scholars/visionaries are held in all departments every year. Seminars and talks by experts are also widely used to expose the students and faculty to new vistas of knowledge.
- Student-teacher interactions outside the classrooms mainly focus on topics and themes beyond the syllabi through various programmes like Walk with a Scholar, Student Support Programme, Additional Skill Acquisition Programme etc.
- Departmental organisations conduct discipline-wise fests on a State/National level. Our students get an opportunity to interact with the students and faculty from other institutions of higher learning.
- Our students participate in many national as well as international conferences/seminars. We encourage our students to participate in national/international level training programmes to get an exposure to the latest academic trends and thereby equip them with advanced knowledge and skills.

Table 2.5: Students' participation in expert lectures, seminars, workshops, production of short films etc.

Sl. No.	Programme	Organizer, Place & Date	Participants
1	Student project presentation Modeling of electro static transport of lunar dust grains	UGC, DST & KSCSTE, March 13-14, 2014	Arathy and Anjana (MSc Physics), (Runner up Award)
2	National Seminar Charging Theory of Isolated Dust Grains on Lunar Surface	28th Kerala Science Congress, Earth and Space Sciences, Calicut University campus, Malappuram during January 28- 30, 2016	Jancy Thomas and Vidya mol (MSc Physics)
3	UGC National Seminar on Economics	Government college, Ambalappuzha, 9-10 January, 2016	Aneesh, Cyriac, Archana and Defencia Abraham, (II MA Economics)
4	National Seminar on Current Issues of the Labour Market in Kerala	St. Xaviers college Dec 16-17, 2015	Cyriac and Rahul (MA Economics)
5	Exhibition Programme Regarding the History of ISRO and NASA	SMV Global School, Kottayam in Connection with National Science Day Celebration. 30-31 October 2015	Muhammed Irfan, Visakh V, Elwin J. Paul, Vipin Krishnnan, Harshal S, Prince C, Anoop D. Raj, sanjay Chandran.
6	Visited the First Kochi Muziris Biennale under the guidance of Prof. D Ramachandran Nair.	Kochi Muziris Biennale Foundation	Students of the UG classes 2012-13 Department of English
7	produced and enacted a street play "Srishti, Stithi, Paristhiti" on the theme of Environmental Protection in the college campus under the guidance of Prof. R Suresh, Co-ordinator of the	February 15, 2013.	Students of UG Classes Maneesh Mahipal, Deepak Sarath Mohan, Selin, Anjumol and Krishnasree.

	College Drama Club on February		II BA, Communicative English
8	Produced and enacted street plays and stage plays. Won third prize in the University youth festival for drama. Contributed articles to magazines and took part in literary competitions.	2013-14	Maneesh, Sharat, Selin, Krishnasree, Priyanka, Shyam, Aumji, Anjana, Lintu, Rahul, (III BA Communicative English) etc.
9	Associated with organ donation campaign 'Winfred' to promote the same.	2014	Rithu, Patrick, Vishnu, Phinney, Unni Eapen, Sree Ram, Balu, Aparna, Devi, Karthika
10	Acted and Produced the Shakespearean Play "Macbeth" (Postcolonial bilingual version) in the college.	8/8/2014	Students of III BA, Communicative English
11	Produced a short film "Katha". Entered in the Malayala Manorama Short Film Fest	2014	Students of III BA, Communicative English
12	Short Film titled '4 U' on the theme of Organ Donation	2014	Syam Kumar S, Anjana Jeni, Aumji, Jeekutty, Selin, Deepak etc. III BA Communicative English
13	Published a Mathematics magazine MATH TODAY with the help of Maths Club	2014	JibinVarghese (B Sc)
14	Produced a Short Film Titled 'Ameer' on the theme of terrorism	March 2014	Anoop Viswanathan, Sijo Abraham, Rajesh Raj and others
15	The research project on the innovative use of aquatic weeds	2015	A team of students of the Zoology department won the <i>Mathrubhumi</i> Seed Spark Award in a competition for science projects.
16	Students of the BA Communicative English, 2015 class, are associated with an old age home, and they bagged the "Vyomithra" award for their services there.	2015	Students of the BA Communicative English
17	Poster presentation Entomology and Parasitology	103 rd Indian Science Congress, January 3-7, 2016, Mysore University	Dhanya P, Zoology Student,
18.	Poster presentation Environmental Science	103 rd Indian Science Congress, January 3-7, 2016, Mysore University	Bincu M Kesavan, Zoology Student
19	Poster presentation	103 rd Indian Science Congress, January 3-7, 2016, Mysore University	Renjana V.S. & Remya R Zoology Students
20	Poster presentation Environmental Science	103 rd Indian Science Congress, January 3-7, 2016, Mysore University	Moly B, Zoology Student

The college organised a total of 35 Seminars, 18 workshops and several invited /endowment lectures (during the last five years).

Further, 70 percent of the teachers have participated in such programmes organised by various colleges/ institutes/ universities as given in table 2.6.

Table 2.6
Number of Papers Presented in Seminars and Conferances Attend by faculty

Sl. No.	Name	Research Paper Presentation			Only Participation		
		Internati onal	Natio nal	State/ local	Interna tional	nati onal	State/ local
1	Sri. R. Indulal	-	3	-	-	-	2
2	Dr. E. Krishnan Namboothiri	-	3	-	-	-	2
3	Dr. R Sathy	3	-	-	-	-	2
4	Dr. Bindu Nair	1	6		1	-	3
5	Dr. Leena P. Pai	-	1	1	-	1	2
6	Smt. Radhika K.S	1	-	-	-	-	3
7	Smt. Karthika. R	-	4	-	-	-	2
8	Sri. Krishnanand. A	-	4	-	-	2	2
9	Ms. Neetha Prasad	-	2	-	-		2
10	Smt. Aswathy. S	-	4	-	-		1
11	Smt. Arathy. S	-	-	-	-	1	1
12	Dr. Valsala Devi G	-	-	-	-	2	2
13	Dr. S. Ajayakumar	-	1	-	-	1	2
14	Dr. K. Narayanan	-	2	1	-	1	2
15	Dr. Devi. K. varma	1	2		-		2
16	Dr. S. Sajith Kumar	1	2	1	-	2	2
17	Dr. Sashikala Nampoothiri	-	-	-	1	-	3
18	Dr. Veena J	2	3	-		3	2
19	Dr. Jyothisree Balakrishnan	-	2	-	1	2	2
20	Dr. Poornima	-	2	1	1	1	2
21	Dr. R. Sreekumar	-	-	-	-	4	2
22	Smt. Lalitha R. Pillai	-	2	-	-		2
23	Dr. S. Vijayakrishnan	-	-	-	-	7	2
24	Dr. V.G Rajalekshmi	2	1		-		2
25	Sri. Ashok Kumar M.G	-	-	-	2	5	3
26	Sri. Amalraj	-	-	-	-	3	3
27	Dr. Bibin K. Jose	-	-	-	-	9	2
28	Smt. Ananthalekshmi	-	-	-	-	5	2
29	Dr. T.R Sherly	6	5	-	-	-	2
30	Sri. Rakesh Chandran S.B	2	4	-	-	-	3
31	Smt. E.G. Sudhamoni	-	1	-	-	2	2
32	Dr. Sreekanth J. Varma	5	6		-	-	3
33	Dr. K.H Prema	-	2	-	-	-	2
34	Dr. P.S Parameswaran	-	2	-	-	-	2
35	Dr. V.S Harikumar	1	-	-	-	-	2
36	Dr. C. Dileep	-	1	2	-	-	2
37	Dr. T. Sunil Kumar	1	2	-	-	-	2

38	Dr. Sreeranjini S	3	4	-	-	-	2
39	Dr. K. Reghunath	-	-	-	-	1	2
40	Sri. N. Jayachandran	-	2	-	-		2
41	Smt. Nisha Rani	-	-	-	-	2	1
42	Dr. G. Nagendra Prabhu	4	8	-	1	2	3
43	Dr. Maya B. Nair	-	1	-	-	3	2
44	Smt. L. Ushakumari	-	1	1	-	2	1
45	Dr. Jubily Navaprabha	5	44	4	-	7	2
46	Dr. (Major) R. Unnikrishnan	-	-	-	-	3	2
47	Dr. (Captain). Ashalatha	-	-	-	-	3	1
48	Dr. T.R Anil kumar		1	1	-	1	2
49	Sri. M. Krishnan	1	2	1	-		2
50	Sri. Vineeth Chandra K.S		4	4	-	1	2
51	Sri. Prasanth Pai	1	-	-	1		1
52	Dr. R. Rajalekshmi	1	-	-	-		2
53	Sri. V.C Asokan	-			-	4	2
54	Dr. Rajesh Kumar S	-	2	-	-		1
55	Lt. V. Anupama	-	-	-		2	2
56	Dr. Jacob Chandy	-	-	-	1	3	2
57	Dr. Prabhakaran Nair V.R	-	-	-	-	3	3
58	Dr. Jeyakumar S	-	3		-		2
59	Dr. S. Umadevi	-	8	1	-		2
60	Dr. M.P Ajith Kumar	-	3	1	-		2
	Total	40	157	19	9	89	122

2.3.7. Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling/ mentoring/ academic advise) provided to students.

- Tutorial system is implemented in the college. Each tutor/mentor is in charge of 30 students (15-20 in case of PG students). Tutors provide mentoring support to students. Ambitions, difficulties, personal problems, expectations, etc. of the students are recorded in the Tutorial Work Record maintained for each student and are closely monitored.
- Walk with a Scholar (WWS) is a mentoring programme that offers academic and mentoring support to bright students.
- The psycho-socio support is provided through the Counselling Services. The services of professional counsellors are sometimes made available to the students. The Women's Studies Cell provides support to girl students.
- The College conducts remedial programmes for the academically weak students through the Scholar Support Programme (SSP). On an average, 250 students avail the benefits of remedial programmes every semester. More than 150 students avail of the benefits of different advanced learners' programme.
- Teachers encourage PG students to appear for regional/national level competitive examinations.
- Training for NET examination is provided by many departments. Every year a large number of students qualify NET/JRF examinations.
- Training for civil service examinations is provided to students by the Civil Service club functioning in the campus.
- Students are encouraged for doctoral studies and many students pursue research leading to Ph.D. in the 6 research centres of the college.

- Finishing programmes are organized for UG students and proper career guidance is given to the students.
- The Career Guidance Cell functioning in the college organizes many orientation programmes, group discussions; quiz programmes, etc. for the benefit of the students. The placement record of the college is quite encouraging. In the year 2013, 52 students got placement as probationary clerks/officers in leading banks such as The South Indian Bank Ltd, Federal Bank Ltd, etc.

2.3.8. Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years. What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

S.D. College as an institution is committed to academic excellence and still continues to follow the conventional teaching methodology and lecture mode. However, the efficient tutorial system in college facilitates the individual teachers to adopt and adapt new modes and methods without affecting the curricular structure designed by the University.

- A system of ICT-aided seminars has been introduced and students present their seminars, projects, synopsis, etc with Power Point presentations.
- Projectors and Interactive Boards are used effectively.
- Every department offers one 'Open Course' each with a view to providing flexibility and promoting interdisciplinary studies.
- Virtual laboratory is used for teaching various courses in science programmes
- In Literature and Language departments, students are encouraged to produce dramas, literary magazines and newsletters, visit book exhibitions and libraries, use audio-visual aids and e-resources to supplement their learning.
- The Language Lab provides software designed to improve English speaking skills.
- Lecture- demonstration method is practiced by the Department of Malayalam, in which some courses are taught with the support of performing arts like Kathakali, folk songs etc.
- Student interaction with experts, scholars and academicians from various fields is encouraged to promote curiosity and exposure to new areas of knowledge.
- In Commerce, various concepts on share market, share trading, online trading etc are taught with the support of Information Technology.

2.3.9 How are library resources used to augment the teaching-learning process?

- New arrivals are displayed at a prominent place in the library and the same is informed through the library what's app group.
- INFLIBNET and NLIST facilities are available in the library. Students and teachers are permitted free internet access.
- Separate sections for reading and reference are arranged in the library.
- Students are given library cards and are encouraged to take books, and also to use the e-resources of the library.
- Photostat and printing facilities are also provided in the library.
- Reading Week celebration is held every year to enhance reading habit among staff and students. Book Exhibitions are arranged every year and special discounts are given to students and staff.
- Separate section is arranged for career information. A number of career

books and magazines are made available in this section.

- **Through Book Lovers' Club, Quality Study Circle, Readers Forum, Quiz Club,** etc the Library augments the teaching- learning process effectively.
- Teaching-learning is supplemented through the Library Creative Users Forum which conducts programmes like Quizzes, Lecture Series, "Know this Author/Book", etc.
- Topics for assignments, seminars etc., are given to the students in such a manner that more library books are used.

2.3.10. Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

Yes. The UG and PG classes are conducted under the semester system. Each semester consists of 90 working days. Completion of the curriculum within the time frame, scheduled as per the academic calendar of the Kerala University, is rather difficult due to various reasons such as delay in the commencement of classes by the university, additional holidays, hartals/ strikes etc. However, the college and the teachers have adopted the following steps to overcome such challenges:

- Extra classes are conducted in zero hours, free hours and on holidays to complete the curriculum. Arrangements are made in the daily time-table to ensure that teaching hours are not wasted. Free hours are delegated for seminars and discussions to save time. Special time tables are prepared to complete the curriculum of those courses that are lagging behind.
- Either two examinations are held on a day or classes are held during one session on examination days. We try to keep to the University semester schedule as far as possible so that the courses can be completed on time.

2.3.11. How does the institute monitor and evaluate the quality of teaching-learning?

- The academic performance of the student is monitored by the teacher-in charge of different classes, DLMC and CLMC.
- The quality of the academic process is evaluated through regular test papers, seminar presentations and assignments and the progress of the same is reported in the PTA meetings. PTA meetings play a major role in this matter where parents are informed about the academic performance of their wards and students who perform below par are advised and given necessary guidance for improvement.
- Evaluations of teacher performance by student, self-evaluation by teachers, self evaluation by student, and student-evaluation by teacher are regularly conducted through semester-end student feedback and self evaluation of faculty.
- The IQAC provides the UGC format to both UG and PG students for evaluation of teachers. Feedback is kept confidential to prevent any sort of prejudice towards any student. (Apart from this, teachers have their own ways of obtaining feedback from students for self assessment).
- Regular Departmental Student- Faculty Academic Committee Meetings are held.
- The student performance is evaluated through both Formative Assessment (including internal examinations, seminars, assignments and class participation) and Summative Assessment (semester-end examinations conducted by the university).
- Progress of the curriculum is closely monitored by the Principal, IQAC and College Council and necessary instructions are given to the department from time to time.

- IQAC conducts ‘Open House’ and feedback about the performance of teachers, infrastructural facilities of the college, etc is collected from students. Teachers are given confidential reports of the feedback of students about their performance. Internal examinations are conducted twice a semester to evaluate the learning process.
- Feedback from the students is sought on curriculum, the quality of teaching, examination system, internal assessment, etc. Such feedbacks are collected by the Principal at time of issuing Transfer Certificate.

2.4 Teacher Quality

2.4.1. Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

As an affiliated institution, the college conducts the recruitment process through a transparent and rigorous process, based on merit, in accordance with the regulations laid down by the UGC and the University of Kerala from time to time. All vacancies are notified in national and local newspapers, the College website and career publications. A month’s time is given to the candidates for submitting completed application forms. This is followed by a systematic interview by the board constituted for the purpose and comprising, as per norms, the nominees of the State Government and the University. The candidates are expected to take a demonstration class to prove their proficiency in teaching. Recruitment of teachers in the Community Quota is also made on the basis of merit. Faculty selection is done with utmost discretion, where the primary focus is on the non-negotiable factors such as academic excellence (those with higher qualifications such as M Phil & PhD, teaching experience and publications are given weightage). If there is a delay in getting government concurrence for appointments, temporary /guest faculty are appointed by the institution in order to ensure smooth functioning. Guest faculties are also appointed after interview by the Principal, the HOD and a subject expert in the concerned subject. For all permanent teachers, UGC pay package and other service benefits are provided.

Table 2.7: Qualification of Faculty Members.

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	M	F	M	F	M	F	
Permanent Teachers							
D.Sc./D.Litt.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Ph.D.	Nil	Nil	21	17	14	08	60
M.Phil.	Nil	Nil	03	07	02	02	14
PG	Nil	Nil	03	Nil	07	17	27
Total Number of Teachers							101
Temporary teachers (Guest Lecturers-Substitute)							
Ph.D.	-	-	-	-	01	Nil	Nil
M.Phil.	-	-	-	-	Nil	Nil	Nil
PG	-	-	-	-	Nil	16	17

M: Male; F: Female

- The college management encourages the teachers to undertake major/minor research projects and to participate in faculty development programmes and workshops. INFLIBNET, NLIST facilities are available in the campus. Every department is computerized and free access to Internet is made available to faculty.

- Meetings of staff, IQAC and the College Council are held regularly in order to ensure full-fledged participative management. The Manager of the college finds time to interact with teachers, collect their suggestions and also address their complaints.
- The achievements of the teachers are given due acknowledgement by the college administration. When a teacher goes on leave for higher studies, guest lecturers are appointed in the respective vacancies as per the UGC/government stipulations. Retention of the eminent faculty members has not been a serious problem for the college.

2.4.2 How does the institution cope with the growing demand of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics, etc.)? Provide details of the efforts made by the institution in this duration and the outcome during the last three years.

In 2014 the college was granted BSc in the emerging area of Microbiology (aided course). At present the course is coordinated by the Department of Botany of this college. The teachers are qualified and well equipped to deal with new subjects. They are also encouraged to attend refresher courses and other short term courses in new areas of research to update them selves. If at all necessity arises, guest lecturers/experts are hired to deal with the subjects and visiting faculty from other colleges/universities are invited over to hold lectures and conduct seminars/workshops in the related topics.

2.4.3 Provide details on staff development programmes during the last four years. Elaborate on the strategies adopted by the institution in enhancing the teacher quality.

- a) Nomination to Staff development Programmes

Table 2.8

Number of faculty attended various staff training programmes during 2011-12 to 2015-16

Academic Staff Development Programmes	Number of faculty attended
Refresher courses	13
HRD programmes	28
Orientation programmes	11
Staff training/workshops conducted by the university	31
Staff training conducted by other institutions	53
Staff training conducted by own institution	12
Summer / winter schools, workshops, seminars, conferences etc.*	393
	*This includes the participation as resource person and paper presenter.

Note: Cumulative Number for the Period 2011-12 to 2015-16

Table 2.9

Details of Orientation Courses, Refresher Courses, Summer Schools and Winter Schools Attended by Faculty during 2011-16

ORIENTATION COURSES ATTENDED BY FACULTY (During 2011 -16)			
Sl. No.	Faculty	Organizing Institute	Period
1.	Dr. Leena P. Pai	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	28 days, 14.10.2014 to 10.11.2014
2.	Dr. Poornima S	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	7.12.2010 to 3.01.2011
3.	Sri. Ashok Kumar M.G	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	31-10-2012 to 27-11-2012

4.	Sri. Amal Raj	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	03-03-2011 to 30-03-2011
5.	Dr. Bibin K Jose	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	27 th December 2011 to 23 rd January 2012
6.	Sr. Rakesh Chandran S.B	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	January 01-28, 2013
7.	Dr. B.Usha Kumari	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	January 2011
8.	Smt. Karthika Devi P	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	3/9/2015 to 30/9/2015 1month
9.	Dr. Sanjai V.N	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	03/03/2011 to 30/03/2011
10.	Sri. M. Krishnan	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	1 month, 2015
11.	Dr. Jacob Chandy	RC on Research Methodology, ASC , Uty. Of Calicut	14-07-2014 to 05-08-2014
REFRESHER COURSES ATTENDED BY FACULTY (During 2011 -16)			
Sl. No.	Faculty	Organizing institute	Period
1.	Dr. Valsalakumari G.	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	03-11-2011 to 23-11-2011
2.	Dr. Ajaya Kumar S	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	9-09-2015 to 29-09-2015
3.	Dr. Sajith Kumar S.	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	2.11.2012 – 23-11-2012
4.	Dr. Veena J.	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	28.12.2011 to 18.01.2012
5.	Dr. Jyoyhisree Balakrishnan	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	28\12\2011 to 18\01\2012
6.	Dr. Poornima S	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	29.11.2012 to 19.12.2012
7.	Dr. Rajalekshmi V.G.	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	May 2015
8.	Sri. Amal Raj	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	5 th to 26 th , Sept. 2012
9.	Dr. Bibin K. Jose	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	5 th to 26 th , Sept. 2012
10.	Dr. Sreejith K. Pisharadi	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	03-01-2013 to 23-01-2013
11.	Dr. C. Dileep	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	21 June (1 st June to 21 st June-2011
12.	Dr. Sanjai V.N	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	01/10/2012 to 22/10/2012
13.	Dr. Maya B. Nair	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	Nov. 2011
14.	Dr. Prabhakaran Nair V.R.	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	May 2015
SUMMER COURSES ATTENDED BY FACULTY (During 2011 -16)			
Sl. No.	Faculty	Organizing institute	Period
1.	Sri. Krishnanand. A	UGC- Academic Staff College, University of Kerala, Trivandrum	30/07/2014-19/08/2014.
2.	Smt. Karthika. R	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	21 days 30July, 2014-19 August,2014

3.	Smt. Manju. V	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	18-02-2014 TO 10-03-2014
4.	Sri.Rakesh Chandran S.B.	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	July 30 – July 19, 2014
5.	Sri. Vineeth Chandra K.S	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	29-10-2015 to 18-11-2015
WINTER COURSES ATTENDED BY FACULTY (During 2011 -16)			
Sl. No.	Faculty	Organizing institute	Period
1.	Dr. Veena J.	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	28/11/2014 – 18/12/2014
2.	Lt. V. Anupama	UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.	28.11.2014 to 18.12.2014

Table 2.10

Details of workshops attended by faculty

Sl. No	Name of the Faculty	Name of the Programme	Organiser	Date/period and year
DEPARTMENT OF ENGLISH				
1	Smt. Praseeda Varma	Workshop on Film making	UGC	28/10/2015-30/10/2015
2	Dr. Bindu Nair	Workshop on Intellectual Property Rights	Human Rights Forum	8 Dec, 2011
3	Dr. Bindu Nair	SAM Workshop	Women's Studies Cell, SD College, Alappuzha & UGC	Feb 6-10,2012
4	Dr. Bindu Nair	TOT Workshop	Dept. of Commerce, Uty of Kerala,Tvm & UGC	Sept 10-16, 2012
5	Dr. Bindu Nair	MSEM Workshop	NMKRV College , NSLIU, Bangalore & UGC	Aug 4-8, 2012
6	Dr. Bindu Nair	One day FDP on Teaching Learning Methodologies.	Teaching Learning Centre, IIT Madras & SD College.	15/October/2015
7	Dr.Leena P. Pai	ASAP- Master Trainer Programme	Dept of Higher Education, Govt of Kerala	4-7 April, 2013
8	Dr.Leena P. Pai	SDE Trainer Workshop	ASAP Programme, Dept of Higher Education, Govt of Kerala	11-14 Nov, 2013
9	Ms.Neetha Prasad	Additional Skill Acquisition Programme (ASAP)	Higher Education Department, Govt. of Kerala	22.4.2013-25.4.2013
10	Smt. Aswathy. S	One day FDP on Teaching Learning Methodologies.	Teaching Learning Centre, IIT Madras & SD College.	15/October/2015
11	Ms. Parvathy. R	Workshop on Film Making	Department of English,SD College,Alappuzha	28 th to 30 th October 2015
12	Dr. Ajayakumar. S	Kuttanad Heritage Study	Centre for Heritage Studies Hill Palace, Tripunithura , Ernakulam	16, January - 2014
13	Dr. Ajayakumar. S	Adolescent and Young Adults – Pre-marital Counselling	Child Development Centre Medical College, Thiruvananthapuram	19, Oct 2011
14	Dr. Ajayakumar. S	Trainers Training programme on Youth for Gender Equity	Rajiv Gandhi National Institute of Youth Development	Nov-2 -4 ,2011
15	Dr. Ajayakumar. S	Free Legal Awareness	Department of Law, Kariyavattom Campus,	2013

		Programme	University of Kerala, Thiruvananthapuram	
16	Dr. Ajayakumar. S	One day FDP on Teaching Learning Methodologies.	Teaching Learning Centre, IIT Madras & SD College.	15/October/2015
17	Dr. Ajayakumar. S	One day Capacity Building Workshop for Internal Mentors & Coordinators.	Office of the New Initiatives in Higher Education Thiruvananthapuram, St. Michael's College, Cherthala	29 th Jan. 2016.
18	Dr. Sindu Antherjanam	3days workshop in Higher Education	Government of kerala	Sept.22,23,24 2011
19	Dr. Sindu Antherjanam	Veswa Malayala Mahothsavam	Kerala Sahithya Accadamy	30/10/2012 to 01/11/2012
20	Dr. Sajith Kumar S	Oneday workshop on Intellectual Property Rights	Kerala state council for science,technology and environment&dept.of.botony	Dec8th 2011
21	Lt (Dr). Narayanan. K	Officers' Training	OTA Nagpur	FEB 2013
22	Dr. Veena J.	Sensitivity - Awareness - Motivation (SAM) Residential Workshop	U. G .C Sponsored workshop organized by WSC, SD college	25\02\2013 to 01\03\2013
23	Dr. Veena J.	Oneday workshop on Intellectual Property Rights	Kerala state council for science,technology and environment&dept.of.botony	Dec 8th 2011
24	Dr. Veena. J	One day Capacity Building Workshop for Internal Mentors & Coordinators.	Office of the New Initiatives in Higher Education Thiruvananthapuram. St. Michael's College, Cherthala.	29 th Jan. 2016.
25	Dr. Jyothisree Balakrishnan	Participated in Sensitivity - Awareness - Motivation Residential Workshop	U. G .C Sponsored workshop organized by WSC, SD college	25\02\2013 to 01\03\2013
26	Dr. Jyothisree Balakrishnan	One day FDP on Teaching Learning Methodologies.	Teaching Learning Centre, IIT Madras & SD College.	15/October/2015

DEPARTMENT OF MATHEMATICS AND STATISTICS

1	Dr. Sreekumar R.	One Day Workshop on Intellectual Property Rights	S.D. College, Alappuzha, Kerala	8 th December 2011
2	Dr. Sreekumar R.	Two-Day Workshop on Syllabus Revision for P.G course in Mathematics	Department of Mathematics, University of Kerala, Kariyavattom, Thiruvananthapuram	10-11 july 2013.
3	Dr. Sreekumar R.	Three day work shop on General Informatics at S.D.College, Alpy.	S.D. College, Alappuzha, Kerala.	22-24 September 2011
4	Dr. Vijayakrishnan. S	One Day Workshop on	S.D. College,	8 th December 2011

		Intellectual Property Rights	Alappuzha, Kerala	
5	Sri. Amal Raj	One Day Workshop on Intellectual Property Rights	S.D. College, Alappuzha, Kerala	8 th December 2011
6	Sri. Amal Raj	Two-Day Workshop on the Revision of the Syllabus of FDP Mathematics under CBCSS.	Higher Education Council, Govt. Of Kerala	22 -21, March 2014
7	Dr. Bibin. K. Jose	One Day Workshop on Intellectual Property Rights	S.D. College, Alappuzha, Kerala	8 th December 2011
8	Dr. Bibin. K. Jose	Two-Day Workshop on the Revision of the Syllabus of FDP Mathematics under CBCSS.	Higher Education Council, Govt. Of Kerala	22 -21, March 2014
9	Dr. Bibin. K. Jose	Three-Day Induction Training of the Fostering Linkages in Academic Innovation and Research (FLAIR) Programme.	Department of Higher Education, Govt. Of Kerala Kerala.	29 th September 2014 to 1 st October 2014
DEPARTMENT OF PHYSICS				
1	Dr. Sherly T.R	First International Workshop on Nanotechnology in Solar & Energy Storage Applications	Amrita Centre for Nanosciences & Molecular Medicine, Kochi	February 24, 2012
2	Dr. Sherly T.R	2-Day Workshop On Material Characterization at Nano scales	Sophisticated Test And Instrumentation Centre Cochin University of Science & Technology	Feb 25 – 26 2013
3	Smt. E.G Sudhamoni	Workshop on Recent trends in Physics	Dept.of Physics,Amritha Viswa Vidyapeetham	23 th ,24 th &25 th three days,2011
4	Dr. Sreejith K. Pisharodi	Workshop on General Informatics	Kerala State Higher Education Council	22-24 Sept.2011
5	Sri. Rakesh Chandran S.B	Workshop on General Informatics	KSCSTE	September 22 – 24, 2011.
6	Sri. Rakesh Chandran S.B	One day FDP on Teaching Learning Methodologies.	Teaching Learning Centre, IIT Madras & SD College.	15/October/2015
7	Sri. Rakesh Chandran S.B	MSc (Physics) Syllabus Revision Workshop	P.G Board of studies in Physics, University of Kerala	November 29-30, 2013
DEPARTMENT OF CHEMISTRY				
1	Dr.Ajithakumari	Workshop on microscale experiments in chemistry	Academy of Chemistry Teachers	March 2014
2	Dr. B. Ushakumari.	Implementation of nodal centre (Value virtual labs)	Amrita Viswa Vidyapeetham University.	Sept 2011
3	Dr. B. Ushakumari.	Workshop on General Informatics	Kerala State Higher Education Council	22-24 Sept.2011
4	Dr. Prema K.H	UGC-Sponsored Short- Term Course in	Academic Staff college, University of Kerala,	22.08.2011 to 26.08.2011

		Soft Skill Development	Kariavattom	
5	Dr. Parameswaran P.S	Workshop on microscale experiments in chemistry	Academy of Chemistry Teachers	March 2014
DEPARTMENT OF BOTANY				
1	Dr. Dileep. C	Insplore	KSSTM, Kerala	24 th and 25 th January 2011
DEPARTMENT OF ZOOLOGY				
1	Dr. Reghunath K.	Teaching Methodology Workshop	College	1 Day 2011
2	Dr. Reghunath K.	One Day Workshop on Intellectual Property Rights	S.D. College, Alappuzha, Kerala	8 th December 2011
3	Dr. Reghunath K.	National Science Day Celebrations	College Science Club	22 nd Feb 2012
4	Dr. Reghunath K.	National Workshop of Research Writing & Publication	Financial Education Cell, S. D. College	21-23, August 2012
5	Sri. Jayachandran	Teaching Methodology Workshop	College	1 Day 2011
6	Sri. Jayachandran	One Day Workshop on Intellectual Property Rights	S.D. College, Alappuzha, Kerala	8 th December 2011
7	Sri. Jayachandran	National Science Day Celebrations	College Science Club	22 nd Feb 2012
8	Sri. Jayachandran	National Workshop of Research Writing & Publication	Financial Education Cell, S. D. College	21-23, August 2012
9	Dr. Prabhakaran. N	Workshop on IT	STEC; UGC	Sept 22,23 and 24, 2011
10	Dr. Suresh P.G	Seminar and Workshops on the use of Alternative to animals in life science Education.	09/03/2012 CUSAT.	
11	Dr. Suresh P.G	Teaching Methodology Workshop	College	1 Day 2011
12	Dr. Suresh P.G	One Day Workshop on Intellectual Property Rights	S.D. College, Alappuzha, Kerala	8 th December 2011
13	Dr. Suresh P.G	National Science Day Celebrations.	22/02/2012, S.D. College, Alappuzha	
14	Dr. Suresh P.G	National Workshop of Research Writing & Publication	Financial Education Cell, S. D. College	21-23, August 2012
15	Dr. Suresh P.G	Ozone Day celebration 2015	S.D. College, Alappuzha	17/09/2015
16	Dr. G. Nagendra Prabhu. G	National Workshop for Biology Teachers	IISER, Pune	2012, Jan 11-14

17	Dr. G. Nagendra Prabhu. G	Teaching Methodology Workshop	College	1 Day 2011
18	Dr. G. Nagendra Prabhu. G	One Day Workshop on Intellectual Property Rights	S.D. College, Alappuzha, Kerala	8 th December 2011
19	Dr. G. Nagendra Prabhu. G	National Science Day Celebrations	College Science Club	22 nd Feb 2012
20	Dr. G. Nagendra Prabhu. G	National Workshop of Research Writing	Financial Education Cell, S. D. College	21-23, August 2012
21	Dr. G. Nagendra Prabhu. G	National Level Short Course on Non-radioactive gene detection methods.	National Research Centre for Plant Biotechnology, New Delhi	New Delhi 16 th to 21 st February 2015.
22	Smt. Nisha Rani	One Day Workshop on Intellectual Property Rights	S.D. College, Alappuzha, Kerala	8 th December 2011
23	Smt. Nisha Rani	National Science Day Celebrations	College Science Club	22 nd Feb 2012
24	Dr. Maya. B. Nair	Workshop on Sustainable Agricultural Practices and Conservation of Endangered Indigenous Cattle Breeds	CMS College, Kottayam	4 th and 5 th September, 2015
25	Dr. Maya. B. Nair	Teaching Methodology Workshop	College	1 Day 2011
26	Dr. Maya. B. Nair	One Day Workshop on Intellectual Property Rights	S.D. College, Alappuzha, Kerala.	8 th December 2011
27	Dr. Maya. B. Nair	National Science Day Celebrations	College Science Club	22 nd Feb 2012
28	Dr. Maya. B. Nair	National Workshop of Research Writing & Publication	Financial Education Cell, S. D. College	21-23, August 2012
29	Dr. Maya. B. Nair	One day Capacity Building Workshop for Internal Mentors & Coordinators of WWS	Higher Education Thiruvananthapuram, St. Michael's College, Cherthala	29 th Jan. 2016.
DEPARTMENT OF COMMERCE				
1	Dr. Ushakumari. L	Two Day workshop for Principals of Colleges in Kerala	UGC Academic Staff College, University of Kerala	3-4 March 2014
2	Dr. Ushakumari. L	Workshop on Innovation-led and Technology-intensive Entrepreneurship: The Way Ahead for Kerala	Kerala Financial Corporation	3 Dec. 2013
3	Dr. Ushakumari. L	“Financial Education Resource Person” Training Programme	National Institute of Securities Markets	Sept 25-Oct 1 2011
4	Dr. Ushakumari. L	One Day workshop on Intellectual Property	S D College and KSCSTE, Govt of	08.12. 2011

		Rights	Kerala	
5	Dr. Nataraja Iyer. S	Workshop on B.COM Curriculum Restructuring	Board of Studies	20 th To 22 nd March 2014
6	Dr. Unnikrishnan R.	Workshop on M.Com Curriculum Restructuring	P.G. Board of Studies	29 th To 31 st Jan 2014
7	Dr. Unnikrishnan R	Workshop on Restructuring the syllabi	Kerala State Higher education Council	20 th To 22 nd March 2014
8	Dr. Jubily Navaprabha	UGC sponsored short-term course for Research Guides.	Academic Staff College, Thiruvananthapuram	June 27 to July 1, 2011
9	Dr. Jubily Navaprabha	UGC sponsored National Workshop on Research Writing & Publication in Commerce & Management.	Sanatana Dharma College, Alappuzha	21-23 Aug: 2012
10	Dr. Jubily Navaprabha	National workshop on Preparation & Presentation of Literature Review for Research Works in Social Sciences	PG Dept of Commerce and Research Centre, Sanatana Dharma College, Alappuzha	23 May 2014
11	Dr. Jubily Navaprabha	National Workshop on Selected Tools of Statistical Analysis	PG Dept of Commerce and Research Centre, Sanatana Dharma College, Alappuzha	20-21 Sept. 2014
12	Dr. Anil Kumar. T	FDP on Teaching Learning Methodologies	Teaching Learning centre, IIT Madras & S.D College.	15-oct-2015
13	Sri. Krishnan M	One day workshop on Teaching Methods	Sanatana Dharma College, Alappuzha	22-02-2013
14	Sri. Krishnan M	ICT Enabled teaching learning	Department of Commerce	2014
15	Sri. Krishnan M	UGC sponsored National Workshop on Research Writing & Publication in Commerce & Management.	Sanatana Dharma College, Alappuzha	21-23 Aug: 2012
16	Sri. Krishnan M	National workshop on Preparation & Presentation of Literature Review for Research Works in Social Sciences	PG Dept of Commerce and Research Centre, Sanatana Dharma College, Alappuzha	23 May 2014
17	Sri. Krishnan M	National Workshop on Selected Tools of Statistical Analysis	PG Dept of Commerce and Research Centre, Sanatana Dharma College, Alappuzha.	20-21 Sept. 2014.
18	Sri. Vineeth Chandra K.S	Orientation course for NSS programme	Empanelled Training Institute for NSS	20-11-2013 to 26-11-2013

		Officer		
19	Sri. Vineeth Chandra K.S	Free Legal Aid Programme	Dept. Of Law and NSS	21-march-2014
20	Sri. Vineeth Chandra K.S	Work Shop on Selected Tools of Statistical Analysis	P.G Dept of Commerce and Research Centre , S.D College, Alappuzha	20-21 September, 2014
21	Sri. Vineeth Chandra K.S	One day FDP on Teaching Learning Methodologies.	Teaching Learning Centre, IIT Madras & SD College.	15/October/2015
DEPARTMENT OF ECONOMICS				
1	Sri. Ashokan V.C	One Day Workshop on Intellectual Property Rights, SD College, Alappuzha	Sanathana Dharma College, Alappuzha.	8 th December 2011
2	Sri. Ashokan V.C	FDP on Teaching Learning Methodologies	Teaching Learning Centre, IIT Madras & Research Forum, SD College.	15 th October 2015
3	Sri. Ashokan V.C	One Day Workshop on Intellectual Property Rights, SD College, Alappuzha	Sanathana Dharma College, Alappuzha	8 th December 2011
4	Sri. Ashokan V.C	Three Day Workshop on General Informatics at SD College, Alappuzha	Sanathana Dharma College, Alappuzha	22-24 Sep 2011
5	Dr. Rajesh Kumar. S	FDP on Teaching Learning Methodologies	Teaching Learning Centre, IIT Madras & Research Forum, SD College.	15 th October 2015
6	Dr. Prabhakaran Nair V.R	FDP on Teaching Learning Methodologies	Teaching Learning Centre, IIT Madras & Research Forum, SD College.	15 th October 2015
7	Dr. Prabhakaran Nair V.R	One day Capacity Building Workshop for Internal Mentors & Coordinators.	Office of the New Initiatives in Higher Education Thiruvananthapuram.	29 th Jan. 2016.
8	Dr. Jacob Chandy	'Using Internet for Applied Development Research'	Centre for Development Studies, Thiruvananthapuram.	27-04-2011 to 29-04-2011
9	Dr. Jacob Chandy	'Intellectual Property Rights'	Sponsored by KSCSTE, GoK	8-12-2011
10	Dr. Jacob Chandy	'Statistical Data Analysis using SPSS '	B.C.M College, Kottayam (U.G.C sponsored)	12-1-2012 to 14-1-2012
11	Lt. Anupama. V	Workshop on "General Informatics" sponsored by Kerala State Higher Education Council	Sanathana Dharma College, Alappuzha	22.09.2011 to 24.09.2011
12	Lt. Anupama. V	Training in "Life Skills and Personality Development"	Rajiv Gandhi National Institute of Youth Development, Chennai	26.09.2012 to 29.09.2012
13	Lt. Anupama. V	'Training of Trainers' Workshop on Capacity	Bishop Cotton Women's Christian College,	20.02.2012 to 25.02.2012

		Building for Women Managers in Higher Education	Bangalore	
14	Lt. Anupama. V	Faculty Development Programme on 'Concept Coaching' conducted by ICT Academy of Kerala	Academic Staff College, Thiruvananthapuram	9.12.2014 to 10.12.2014
15	Lt. Anupama. V	Underwent the 3 months PRCN Training Course in Gwalior, Madhya Pradesh and was conferred with 'Lieutenant' rank. Scored 'A' Grade in the course.	Officers Training Camp, Gwalior, Madhya Pradesh	06.08.2012 to 03.11.2012
DEPARTMENT OF HISTORY AND POLITICAL SCIENCE				
1	Dr. Jeyakumar S.	Two Days Workshop on Restructuring of B.A. History Syllabus (CBCSS) University of Kerala, Thiruvananthapuram	University of Kerala, Thiruvananthapuram	13 th & 14 th March 2013.
2	Dr. Jeyakumar S.	One day Capacity Building Workshop for Internal Mentors & Coordinators.	Office of the New Initiatives in Higher Education Thiruvananthapuram.	29 th Jan. 2016.
3	Dr. Umadevi. S	Short-term course for Research Guides in Social Sciences for University/ College teachers	Academic Staff College University of Kerala	25/8/2014 to 29/8/2014

b) Faculty Training Programmes organized by the Institution

Table 2.11: Faculty Training Programmes organised by the Institution

Programme	Date/Period	Sponsored/Organised By
Teaching Learning methodology		
One day FDP on Teaching Learning Methodologies	15/October/2015,	Academic and Research Forum association with teaching Learning Centre, IIT Madras.
Research Writing		
Workshop on Research Writing and Publication	21-23 Aug 2012	University Grants Commission, New Delhi.
National Seminar on Preparation and Presentation of Literature Review for Research Works in Social Sciences	23 rd May 2014.	University Grants Commission, New Delhi.
Statistical analysis in research		
National Workshop on Selected tools of Statistical Analysis	20-21 September 2014	Dept. Of Commerce, SD College
Workshop on Research Methods: Tools for Data Collection	26 th may 2015	Dept. Of Commerce, SD College
Informatics		
Three day work shop on General Informatics	22 nd to 24 th 2011	Kerala State Higher Education Council
Institutional Development/Quality Aspects		

Workshop on the newly introduced RUSA (Rashtriya Uchchatar Shiksha Abhiyan)	05-06-2014	IQAC, SD College
Quality standards and Benchmarking in higher education	14-12-2015	IQAC, SD College
Quality Sustenance for reaccreditation	8 th January, 2016	IQAC, SD College
Training for Women Teachers		
Workshop on 'Capacity Building for Women Managers in Higher Education' organised	6 th to 10 th February 2012	Women's Studies Cell, SD College, Alappuzha
Intellectual property rights		
One Day Workshop on Intellectual Property Rights	8 th December 2011	SD College, Alappuzha

c) Percentage of Faculty (during 2011-2016)

Table 2.12

Percentage of faculty participation in workshops/ Seminars/ Conferences (average during 2011/12 to 2015/16)

i)	Invited as resource persons in Workshops/ Seminars/ Conferences organized by external professional agencies	17%
ii)	Participated in external Workshops/ Seminars/ Conferences recognized by national/ international professional bodies	62%
iii)	Presented papers in Workshops/ Seminars/ Conferences conducted or recognized by professional agencies	60%

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications, teaching experience in other national institutions and specialized programmes, industrial engagement, etc.)

- The college encourages the faculty to apply for sponsored research projects. The college also provides all infrastructural facilities for the successful completion of projects within the stipulated time frame.
- The faculty is encouraged to take part in refresher courses, orientation programmes, workshops, and conferences organised by other universities.
- The teachers of the college have published papers in national and international journals.
- The teachers are permitted to take eligible leave for research and visits to national laboratories and institutes.
- The college is publishing bi-annual research journal.

Table 2.13

Faculty Participation in Advanced Recharge Programmes

Sl. No	Name of the Faculty	Details of Participation	Year
1	Dr. S. Harikumar	Served as Director of Bala Sahithya Institute, Govt. of Kerala.	2012-15
2	Dr.Sindu Antherjanam. D	Visited and undertook research studies as residential programme at Indian Institute of Advanced Study, Shimla	2012-13
3	Dr. Bibin K Jose	Attended training of the Fostering Linkages in Academic Innovation and Research (FLAIR) Programme, Department of Higher Education, Government of Kerala.	2014

4	Rakesh Chandran S B	Delivered invited Lectures at Department of Physics, University of Kerala.	2015
5	Dr. Rajesh S R	Visited and undertook research studies as residential programme at Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune	2015
6	Dr. Sreekanth J. Varma	Conducting Research under Raman Fellowship, UGC	2016
7	Dr. P.R. Unnikrishna Pillai	Served Kerala state Bio-Diversity Board as expert Member	2012
8	Dr Prabhakaran Nair V R	Completed Post Doctoral Research at Centre for Development Studies (Jawaharlal Nehru University), Trivandrum	2015
9	Dr Prabhakaran Nair V R	Associate at Indian Institute of Advanced Studies, Shimla	2016

2.4.5 Give the number of faculty who received awards/recognition at the state/national and international level of excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

Table 2.14: Academic Fellowships/Grants/Awards/prizes (During 2011-2016)

Sl. No	Name of the Award/Patent	Agency, Place	Level	Purpose/Context	Year
1	Dr. Sindu Antherjanam. D	Indian Institute of Advanced Study, Shimla UGC Inter University Centre	National	Associateship, Research Study.	2012
2	Dr. Sherly T.R.	Dept. Of Physics, S. N. College, Kollam	National	Second best research paper award	2011
3	Dr. Sreeranjini. S	Mar Athanasius College, Kothamangalam, Kerala	National	Best oral presentation in 'National Seminar on New Frontiers in Molecular Biology	2013
4	Dr. G. Nagendra Prabhu	SPARK Award, Mathrubhumi-SEED	State Level	Research Project Competition	2013
5	Dr. G. Nagendra Prabhu.	P. A. Harris Foundation	Local (District)	P. A. Harris Foundation Award, Contributions to Education	2014
6	Dr. G. Nagendra Prabhu	Society for Scientific Education & Research	National	Contributions in the area of Microbiology	2014
7	Dr. Prabhakaran Nair V.R	Research Award, University Grants Commission	National	Research Award in Economics	2012
8	Dr. Sreekanth J Varma	Raman Fellowship	Foreign	Research Study	2016
9	Dr. Rajesh S R	Inter University Centre for Astronomy and Astrophysics-	National	Research Study Associateship	

		Pune			
10	Sri. Rakesh Chandran S.B	Committee on Space Research -COSPAR	International	Associateship	2013
11	Dr. Prabhakaran Nair V.R	Indian Institute of Advanced Study, Shimla, UGC Inter University Centre	National	Associateship Research study	2015
12	Dr. S. Ajayakumar	University of Kerala	University	NSS Programme officer special award	2014
13	Dr. G. Nagendra Prabhu	Rural Innovators Meet	State Level	Rural Innovator Award	2014
14	Dr. G. Nagendra Prabhu	Konkani Sahithya Acadmey, Kerala	State Level	Achiever's Award	2014
15	Vineeth Chandra.K.S	National service Scheme, University of Kerala	University	For best NSS coordinator	2015
16	Dr. G. Nagendra Prabhu	Higher Education Dept, Gov. of Kerala	State Level	FLAIR Award, Contributions in Research	2016

2.4.6 Has the institution introduced evaluation of teachers by the students and external peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

Student feedback forms are given to all students to obtain data about various aspects of teaching a course. This is how the evaluation of the performance of teachers is done in the college. The quality of teaching-learning process is improved through this method.

- The college has a well-developed system of evaluating the performance of teachers by students. IQAC collects feedback from students in a standardized form as per NAAC guidelines and monitors it by giving grade sheet to each teacher. The Principal also collects feedback from students at the time of issuing TC and Mark list.
- The college conducts external/internal academic audits every year. Reports of the audit are given to every department for discussion and improvement.
- The summarized grade sheet of the feedback system and the audit reports could be utilized by each teacher for improving the quality of teaching-learning process.

The Manager and the Principal personally express their appreciation to teachers having excellent performance. They also point out areas for improvement to teachers with low grades.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The following measures have been taken by the college to ensure this:

- Details regarding the evaluation process are explained clearly in the College Handbook. It explains the basic rules and regulations regarding the conduct of University examinations, internal assessment etc. Tentative dates for the conduct of internal examinations and the publication of results etc are given in the semester plans.

- The evaluation process consisting of the formative (internal) and summative (University) constituents is explained to students during their induction programme.
- The evaluation process is presented in the college website with a link to the College Handbook.
- The periodic instructions issued by the University are communicated to the students through the college notice board and through the circulation of notices to all classes.
- After the internal exams, the results are published in the notice board of each department.
- Details regarding internal and University level examinations are conveyed to the students through the circulation of notices in classrooms.
- Time-table of University examinations and guidelines for candidates appearing in these examinations are published in the notice board of the examination office.
- Details regarding the evaluation system are explained in classes by individual teachers and model question papers are distributed.
- The process of evaluation is explained to parents during PTA meetings. They are made aware of the role of attendance, submission of assignments etc. in the evaluation system and are encouraged to monitor their child's performance on a regular basis.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

- Choice Based Credit and Semester System (CBCSS) was introduced by the University of Kerala at the UG level during the academic year 2010-11. PG Programmes of the University were already functioning under Semester System since 2005-06. For degree courses traditional mark system was replaced with credit and direct grading system in order to make it compatible with the international education system. The college adopted the system in 2010 and continued to follow it in 2011 and 2012.
- In the year 2013, minor revisions were made in the system – direct grading was replaced by marking system, the aggregate marks secured by students being later converted to grades at the University level. The college adopted this system in 2013 and it is still being practiced for evaluation.
- Since 2013, both CA (Continuous Assessment) and ESA (End – semester Assessment) are done in terms of marks. The aggregate mark secured by a student in a particular semester (given by total of CA and ESA in all subjects) is then converted by the University into CGPA (Cumulative Grade Point Average).
- In tune with the revisions made by the University of Kerala, the internal examination system of the college was revised from time to time.
- The continuous assessment of students is done on the basis of mark distribution for attendance, conduct, internal examination, assignment, seminar, participation in extension activities etc. Assignments, seminars, project work etc. are given to students on a regular basis and their performance is evaluated.
- Model examinations are conducted for courses as per the discretion of course coordinators.

- Quiz programmes, objective type tests, surprise test papers etc. are also conducted as part of formative assessment.
- As a part of CBCSS, the students have to participate in the activity of at least one club/forum during the 3rd & 4th semesters. Each club has one teacher convenor who evaluates the activities of student members and records it for evaluation.

2.5.3. How does the institution ensure effective implementation of the evaluation reforms of the University and those initiated by the institution on its own?

- The Principal, with the assistance of the Chief Superintendant and the College Level Monitoring Committee (CLMC) ensures the effective implementation of the evaluation reforms, both formative (CA) and summative (End Semester Assessment (ESA)).
- Meetings, awareness sessions and workshops are conducted from time to time by the College Level Monitoring Committee (CLMC) to familiarize teachers with the revisions made in the evaluation patterns both ESA and CA.
- The Principal and the Chief Superintendant of Exams ensure the smooth and transparent conduct of University Exams in the college as per the guidelines given by the University from time to time.
- The evaluation reforms initiated by the college are implemented under the guidance and monitoring of the CLMC. The body ensures the transparent conduct of internal examinations. It also monitors the assessment of students in terms of attendance, submission of assignments, seminars and exams.
- The final date for the submission of CA mark sheets is fixed by the CLMC. The marks hence submitted are then uploaded onto the University website within the time period stipulated by the University.
- Documents like attendance statements, signed hard copies of CA mark sheets and statements regarding the participation of students in extension activities are sent to the University by post.
- Internally developed Microsoft Excel Programme is used for the tabulation of CA marks.
- Internal evaluation grades/marks of all students are published in the notice board of the concerned department for verification by students before submission to university.
- Grievances, if any, are redressed by the Grievance Redressal Cell at the department level/college level/university level.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

- Internal evaluation of UG and PG programmes is done on the basis of four important criteria – attendance (5 marks), assignments and seminars (5 marks), internal examinations (10 marks) – coming to a total of 20 marks out of 100.
- Punctuality, proper conduct in class, effective participation in the teaching – learning process, participation in extension activities like NCC, NSS, clubs, sports and cultural activities etc. are also given weightage in the calculation of internal marks.
- A student has to acquire a minimum of 120 credits for a UG programme.
- End – Semester evaluation is conducted by the University through a three hours examination (80 marks) for each course.

- The introduction of the new system of evaluation had brought about visible changes in the performance of the students, both inside the classroom and outside. A few examples are cited below:
- Regularity of students in attending classes improved.
- Punctuality in academic work increased.
- Students are found to be taking greater interest in programmes like NSS, NCC, club activities etc.
- Student representation in sports and cultural activities at the college level and University level increased.
- Better utilization of library and laboratory resources has become evident.
- Students became proficient in the use of ICT and web resources for projects, presentations etc.
- Spirit of team work and organizational skills were seen to develop among students as they organized club activities on their own under the guidance of staff coordinators.
- Student enterprises like making of short films, publication of magazines, charitable activities etc. increased in number.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioural aspects, independent learning, communication skills etc.

- The weightage for internal assessment is based on University regulations. Consolidated weightage based on two internal examinations, attendance, seminar and assignment is given for theory papers. For practical examination weightage is given as per the University norms. Assignments and seminars provide scope for assessing independent learning and communication skills.
- Accuracy and Punctuality earn due credit in the formative evaluation components like, attendance, assignments, seminars, practical records etc.
- Independent learning skill of students is measured on the basis of assignments and seminars given to them. Grades are given on the basis of different parameters viz. content, creativity, references, presentation, structure and application.
- Communication skills of students are evaluated on the basis of the presentation of seminars, way of answering questions, and interactive sessions.
- Internal exams are conducted twice every semester.
- Internal evaluation grade sheets are published in the departmental notice boards and kept in the department for further reference.
- There is a three tier grievance redress mechanism at Dept/College/University levels ensuring rigour and transparency in internal assessment.
- Slow-learners are identified and special assignments are given to such students.
- In case of genuine cases, re-examinations are conducted for absentees in internal examinations by the teachers concerned.
- During each semester, a PTA meeting is conducted and the internal evaluation results are communicated to parents and students.

- Students' progression report is prepared by every department and submitted to the internal audit team. The suggestions of the audit are implemented at the Dept. level.
- Progress and performance of students are communicated to them regularly in the following ways:

Continuous Assessment (CA)

- Monthly record of attendance is published in the department notice boards.
- CA mark sheets for each course, showing the separate allotment of marks for attendance, assignment and internal examination are shown to the students and are signed by them before they are uploaded onto the University website.
- Class-wise PTA meetings are convened in every semester to collect parents' feedback on teaching – learning activities. Important queries by parents are answered by the concerned teachers. Guidelines for improving the performance of students are given by the teachers.

End- Semester Assessment (ESA)

- Semester results are published by the University in the official website. This is accessible to all students.
- Students can access their individual results through the user accounts issued to them by the University Computer Centre.
- Consolidated mark sheets of CA and ESA are distributed to the students through the college.
- Development of a student is evaluated on the basis of weightages assigned for different internal assessment parameters viz., attendance, assignment, seminar, and test papers. These are structured in such a way that there are qualitative changes in behavioural pattern, independent learning ability and communication skills of a student.
- Behavioural aspects are mainly measured and accounted on the basis of the punctuality and presence of students in class hours.
- Independent learning skill of students is measured on the basis of assignments given to them. Grades are given on the basis of four parameters viz. content, creativity, references, and structure.
- Communication skills are measured on the basis of the presentation of seminars. Grades are given on the basis of four parameters viz. content, language, interaction, and innovative approach.
- Social commitment, environmental consciousness etc. are measured on the basis of their participation in extension activities including NSS, NCC, club activities etc.
- Team work, organizational abilities, leadership qualities etc. are measured on the basis of group projects, participation in student enterprises, contribution in the organization of department and college level programmes etc.
- Knowledge of a student is evaluated through written examination and Viva-Voce.

2.5.6 What are the graduates attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?

The college aims at an all-round development of the students, making them good citizens equipped to face the challenges of the modern age. We strongly believe in the concept of Sanatana Dharma which encompasses the three principles of life – Satyam,

Sivam and Sundaram. The ideals of truth, goodness and beauty, enshrined in the motto of the institution, “Satyam, Shivam, Sundaram”, are inculcated in an holistic educational vision and practice leading to the realisation of a fuller human life and to nation building. Hence the name of the college itself suggests the intellectual and moral responsibility it assigns itself. The vision of the institution is to lead young minds from the darkness of ignorance to the path of truth, wisdom and positive action, through quality education that combines knowledge, skills and human values.

The college frames all its activities with a view to inculcate the above attributes in the student community. The following graduate attributes and their specifications have been listed out:

1. Academic Excellence

Intellectual Curiosity
Originality and Creative Thinking
Vocational Competence

2. Interpersonal Skills

Teamwork and leadership qualities
Open Mindedness and Inclusive Thinking
Social Awareness and Commitment

3. Personality Development

Democratic Outlook
Self Reliance
Morality and Ethics
Environmental Consciousness

The whole gamut of the teaching-learning- evaluation activities is undertaken with the objective of ensuring that the students of the college attain the expected graduate attributes during their course of study in the college. These attributes are achieved through team-work and innovative methodologies employed both inside and outside the classrooms. The student progression and performance of the alumni testifies that the college is successful in this regard. The college emphasizes students participation in value and Moral Education Programme, Skill Development and Career Orientation Programmes, Keeping the Campus Clean and Green, Encouraging Co-Curricular and Extra Curricular Activities, Promotion of Sports & Games, NSS and NCC, Maintenance of Campus Discipline and Attendance, Active Participation in Clubs and Forums, Invited talks, Seminars, Conferences, Workshops etc., Personality Development and Women Empowerment Programmes, Extension services and Consultancy Programmes etc.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

The following steps have been taken for the redressal of grievances with reference to evaluation at the College and University levels:

- Grievances of students regarding Continuous Evaluation are addressed at the departmental level by the concerned teacher –in– charge and the Head of Department.
- Grievances on Continuous Evaluation that are not redressed at the departmental level are looked into by the College Level Monitoring Committee (CLMC).
- Grievances regarding end- semester evaluation (ESA) are addressed at the University level. Proper guidance in this regard is given to students by the Departments.
- At the University level, the students can apply for scrutiny and verify whether all answers in their answer books have been evaluated and also whether the calculations are correct.

- At the UG level they have the option for revaluation. If a student demands revaluation, the concerned paper will be assigned to a new examiner and valued all over again.
- In the case of PG answer books, the answer scripts are evaluated by two examiners independently and the average of the two scores is taken as the final mark. In cases where there is a huge margin between the two scores, the answer script is sent for a third valuation.
- Students have the right to put forth their demands and grievances to the Controller of Examinations, who is liable to provide answers to their queries.

2.6. Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

Yes, the College has clearly stated learning outcomes. It aims at the all-round development of students. Broad learning outcomes are:

- Academic Performance
- Personality Development
- Social Commitment/ Good Citizenship
- Environmental Awareness

The intended learning outcomes are conveyed to the students and the staff through the College Website and the College Handbook. In induction meetings at the beginning of each course the intended learning outcomes are conveyed to the students in detail. Each tutor mentors the students to achieve the said learning outcomes.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/ courses offered.

Table 2.15:U.G and P.G Results for the last four years

U.G PROGRAMMES					
Sl. No.	Programme	Percentage of Pass			
		2011-12	2012-13	2013-14	2014-15
1	English	87.17	73.33	87.18	92.31
2	Communicative English	100	73.53	67.65	87.50
3	Malayalam	60.00	63.04	69.57	63.04
4	Hindi	83.00	73.68	96.15	81.08
5	Mathematics		80.77	80.00	83.33
6	Physics	57.14	53.13	59.46	57.14
7	Chemistry	66.00	66.67	59.46	80.70
8	Botany	97.22	85.29	82.35	72.34
9	Zoology	78.04	74.29	96.67	80.00
10	Microbiology*	--	--	--	--
11	Economics	77.96	52.38	70.69	64.15
12	History	65.10	34.88	78.95	52.50
13	B. Com	94.00	78.99	87.83	88.70
P.G PROGRAMMES					
Sl. No.	Programme	Percentage of Pass			
		2011-12	2012-13	2013-14	2014-15
1	English	84.21	100.00	88.24	80.00
2	Malayalam**	--	--	--	57.14

3	Mathematics	82.35	76.92	73.91	73.68
4	Physics	60.00	50.00	57.14	83.33
5	Chemistry	78.57	53.85	53.85	72.22
6	Botany	81.25	81.25	83.33	94.44
7	Zoology	78.57	53.85	53.85	72.22
8	Economics	71.43	70.00	55.00	50.00
9	M. Com	81.25	100.00	94.44	95.00

* Started in 2014-15 only; ** Only one batch passed out so far.

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The teaching, learning and assessment strategies are designed in such a way as to give sufficient weightage to each of the specified learning outcomes. Provision of a good learning environment, proper execution of the curriculum and effective evaluation ensure the achievement of the specified learning outcomes.

Academic Excellence

The following steps have been taken to ensure academic excellence of students:

- The curriculum teaching process is completed through the proper structuring of class room sessions.
- Effective teaching methods are adopted with special emphasis on ICT.
- Effective guidance is given to students in the completion of assignments, seminars, group projects etc.
- Seminars, workshops, exhibitions, field visits, factory visits, specimen collection etc. are conducted for the benefit of students.
- Special sessions and programmes for gifted children are conducted.
- Coaching for competitive examinations and NET are organized at the departmental level.
- Remedial coaching is given to support weak learners.
- Internal evaluation is transparent and done on the basis of well defined criteria.
- Endowment awards and scholarships have been instituted for appreciating academic excellence.

Personality Development

- Ethical Values - Healthy interaction between teachers and students help in personality development. Teachers take special care to impart ethical values through their interaction with students.
- Critical Thinking - Topics chosen for seminars, assignments and projects help to develop critical thinking.
- Punctuality - Timely submission and evaluation of assignments instil punctuality and systematic work pattern among students.
- Teamwork and Leadership - Teamwork and leadership qualities are enhanced through group projects, participation in club activities and other collective endeavours.
- Management, Problem Solving - Active roles in the organization of department and college level programmes help students develop the skills of management. They learn how to plan, co-ordinate, execute and overcome difficult situations.
- Qualities like punctuality, critical thinking, effective teamwork and leadership are given weightage in the internal assessment of students.

Social Commitment/ Good Citizenship

- Topics for assignments, seminars and projects are chosen on the basis of their social relevance. Students are encouraged to think critically about everyday incidents and social issues.

- Social service activities like adoption of villages, blood and organ donation etc. are taken up by the NSS wing of the college.
- Activities of social relevance are also taken up various clubs and associations.
- The college library provides ample resources to create social awareness among students, viz. news papers, journals etc. Students are encouraged to make use of these facilities.
- National festivals and important days like youth day, women's day, environment day etc. are observed in the college in order to make students aware of their duties and responsibilities as citizens.

Environmental Awareness

- Environmental Studies has been included as a course in the UG curriculum to sensitize students to the threats faced by our environment. This course gives information on the issue of environmental degradation and the measures to be adopted to conserve the environment.
- The curriculum includes field visit and submission of a project on an environmental issue in the visited site.
- Internal evaluation for this course is conducted on the basis of participation in field visit and quality of the project submitted.
- A garden of Medicinal plants has been created under the supervision of the Department of Botany.
- Agri horti exhibition – Every year Agri horti exhibition is organized by the department of Botany with participation of all students and faculty.
- Vegetable garden – *Bhoomitrasena* maintains vegetable gardens in the college seasonally. The entire process of cultivation to harvesting is done by the student members of the club.
- Clean campus Initiatives-‘Clean Campus’ drive as part of the ‘Swacch Bharath’ mission has been adopted by the college. Students are motivated to keep the premises clean and tidy. Students voluntarily undertake periodical cleaning in which staff also participates. Food waste generated in the college is used to grow fishes and the by product is used for vegetable cultivation.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

- The following initiatives have been taken by the institution to enhance the social and economic relevance of the courses offered:
- Career Oriented Programmes – Career Oriented programmes promoting employability and social skills are offered by the college.
- Open Courses – The open courses provided for Under Graduate Programmes under the CBCSS are selected after considering their career potential.
- Electives – Electives for both UG and PG programmes are selected by considering career/ research potential.
- Entrepreneurship Development (ED) Club – ED Club promotes entrepreneurship and academy-industry interaction.
- Seminars and Workshops - Students are provided with ample opportunities to interact with eminent scientists, social workers and economists. Various seminars and workshops have been organized by the college to achieve this objective.

- Career Guidance and Placement Cell -There is a Career Guidance and Placement Cell functioning in the college which provides career information to students, imparts training, conducts campus placement drives, etc.
- Projects - Both at the UG and PG levels, students carry out project works which are evaluated by external examiners.
- Research Aptitude - All the students are given training in preparing assignments, projects and presenting seminars with a view to promote their research aptitude. Academic Research Forum functions in the college has student members.
- Interactions with Experts - Students are provided opportunity to interact with research scholars/experts in various departments in order to be aware of the frontiers of research.
- ASAP – Training programme organized by the Govt. of Kerala for final year UG and PG students to increase their employment potential. ASAP training is being offered at SD college right from its onset in 2013.
- Extension Activities - Several extension programmes such as Village Adoption, Sanatanam Can Care, Annam Sanathanam, Tree Planting, Vegetable Cultivation, Blood Donation Campaigns, Organ Donation Campaigns etc. help develop social commitment among students.
- Facilitating Programmes – Facilitating programmes conducted in the institution include NET coaching, coaching for Bank Examinations, Finishing School etc. These programmes enhance the social relevance and employment potential of the programmes in general
- Workshops, Symposia and Lectures – Workshops, symposia and lectures are organized every year by the different departments of S.D. College to develop vocational, social and research orientation among students.
- Presentations, Industrial Visits, Case Studies - Practical learning is facilitated through case studies, presentations and industry visits.

2.6.5 How does the institution collect and analyse data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

The college collects data on student learning outcome in different ways:

- Comprehensive student feedback in prescribed formats
- Random feedback
- Feedback from parents
- Feedback from alumni
- Internal assessment and external examination results

Feedbacks from all stakeholders play a crucial role in improving student performance and learning outcomes. The data collected are analysed by IQAC and salient features are informed to the stakeholders concerned. The examination results are analysed at Departmental level as well as by the IQAC and steps for improvement are initiated. The data collected is used for the implementation of various projects/programmes to bridge the gap in learning outcomes. The programmes implemented include:

- Classes for improvement of communication and soft skills.
- Coaching for competitive exams like NET, Bank Coaching etc.
- Remedial programmes for weak students in different subjects

- Seminars, assignments and projects are given to students based on learning requirements
- Infrastructural support like INFLIBNET, virtual lab, language lab etc. are provided.
- Library has been upgraded.
- The presentation and communication system has been considerably improved with the support of ICT methods.
- Students are encouraged to apply for Govt. scholarships and other schemes of financial assistance.
- The various departments have instituted a good number of scholarships for students.
- The democratic system of student election continues to be practiced in S.D College. In a scenario where many educational institutions have banned campus politics, S. D. College has been successful in managing campus politics in a healthy manner without hindrance to the teaching- learning activities. Students with different political affiliations interact in a healthy manner in this campus giving the students their early lessons regarding the functioning of a democratic nation, hence equipping them for their role as citizens of India.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes? The achievement of learning outcomes is monitored as follows:

- Performance of students in internal examinations.
- Performance of students in external examinations (University Examination).
- Details of student progression
- Involvement and achievements of students in curricular and extracurricular activities.
- The feedback is effectively used for improving the activities of the college and to ensure that the learning outcomes are attained.
- Both CLMC and IQAC of SD College discuss the findings of the feedback and monitor the action plan for the subsequent year, with the intention of attaining the learning outcomes. They review the performance of the institution with respect to the curricular, extracurricular and research activities.
- The academic activities of each department like the performance of students, internal assessment, tutorial classes, seminars, projects and academic discussions are reviewed by the department level monitoring committee (DLMC).
- The factors necessary for excellence like availability and accessibility of learning resources, timely appointment of faculty/ guest faculty, Faculty Improvement Programmes of teaching staff, infrastructural requirements etc. are reviewed by the College Management.
- The Principal, with the assistance of IQAC and CLMC, monitors the academic and research activities, maintenance of discipline etc.
- The curricular and co-curricular activities of the college are evaluated and reviewed by the college union.
- The general discipline of the campus is monitored by the College Discipline Committee.
- The results obtained in the semester examinations, higher education enrolment ratio, feedback from industries etc. all point toward the successful achievement of the learning outcomes by our students.

2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If ‘yes’ provide details on the process and cite a few examples.

Yes, Assessment is used as an indicator for evaluating student performance and for academic planning. The teachers keep record of the progress of students and meticulously trace the fluctuations in their performance. It enables them to take necessary steps whenever necessary.

- Special coaching for UGC/CSIR Tests is given to high performers to attract them to teaching and research careers.
- Counselling sessions for weak performers are provided based on the recommendation of the mentors.
- Remedial programmes are arranged for weak students on the basis of their performance in internal evaluation/assessment.
- Difficult topics are identified on the basis of student performance in various courses and remedial classes are arranged for simplifying difficult topics.
- Punctuality, academic performance and communication skills are taken into account for selecting class representatives and office bearers of Departmental Associations.
- Those who excel in seminar sessions are given opportunity to act as comperes and Master of Ceremonies in various programmes organized at the departmental as well as college levels.
- Top scorers in college level competitions are deputed to represent the college at the University/State /National levels.
- Merit scholarships and endowment prizes are awarded by the various departments on the basis of students’ performance in academic activities.
- Evaluation is an indicator, not only of student performance, but also of the achievement learning objectives. Students’ performance is discussed regularly in DLMC and IQAC. The scores achieved by students are analyzed in comparison to the performance of students during the previous years. The results of such analyses are used to plan further programmes.
- Planning of teaching- learning process is done on the basis of student performance – need for change in teaching methodology, change of hours set aside for topics etc. are decided on this basis.
- Steps are taken to ensure the effective utilization of learning resources by students, viz. library, INFLIBNET, virtual laboratories etc.
- Students are encouraged to indulge in constructive activities like the organization of exhibitions, quiz programmes, literary festivals etc. to improve their academic orientation and to foster team work.
- Seminars and workshops on relevant topics are organized on the basis of student-requirements.
- Departments are instructed to take necessary remedial steps to improve, in case the student performance is not up to the expectation.
- Departments with good academic results are congratulated by the Principal, IQAC as well as the College Management.

2.6.8. Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

The MOODLE learning management system has been adopted and training classes have been conducted to enhance the teaching learning evaluation process more efficiently.

CRITERION III

RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1. Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

Yes. University of Kerala has approved six departments in the college as Research Centres. The details are presented in the following table.

Table 3.1: Details of Research Centres in the College

Sl. No	Research Department	Year of Recognition	University Order No.
1	Department of Botany	1997	Ac. E1.2-4015/1995 dated 11/04/1997
2	Department of Zoology	2002	Ac.EI.A.2.4025/95 dated- 10/09/2002
3	Department of Chemistry	2012	Ac.E1.A/19624/2012 dated 13/01/2014
4	Department of Commerce	2012	Ac. E1. A/031217/2011 dated 01/08/2012
5	Department of Economics	2015	Ac.E1.A3/018050/2014 dated 07.07.2015
6	Department of Mathematics & Statistics	2015	Order Awaited

Out of these six departments, four departments viz., Chemistry, Commerce, Economics and Mathematics have been affiliated as Research Departments in the post reaccreditation period.

3.1.2. Does the Institution have a Research Committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the Committee for implementation and their impact.

Research Assessment Committee

The College has a Research Assessment Committee constituted as per the University Grants Commission (UGC) XIIth plan guidelines. The Committee consists of Principal as Chairman and members from six research departments each. One of the teachers acts as Convenor of the committee.

The main objective of the Committee is to assess and provide necessary directions and help for applying various minor and major research projects for funding to different Govt. agencies like the UGC, Kerala State Council for Science, Technology and Environment (KSCSTE) and Department of Science and Technology (DST). It is the Committee's responsibility to carry out awareness classes for those teachers who have Research projects, regarding the proper conduct of the Research work and utilization of funds.

Some Recommendations made by the Research Assessment Committee:

- Every department should run at least one Minor/ Major Research Project.
- A central computing facility should be built up to facilitate campus recruitment and conduct of computer orientation to large number of students at a time.
- Each Research Guide should take care to publish their works in reputed international/ national refereed journals.
- Research Scholars are advised to attend and present papers in international/ national seminars / conferences.
- The Science Departments in the college were directed to apply for inclusion in the DST-FIST programme.

All these recommendations have been taken in the true spirit by teachers. Many

faculty members came forward to undertake Major/ Minor Research Projects. A number of Research Papers of high quality have been published by teachers in the recent years. Research grants from agencies like UGC, DST, KSCSTE etc. have increased and resulted in the modernization of laboratories.

Academic and Research Forum (ARF)

We have constituted an Academic & Research Forum (ARF) which acts as a common platform to coordinate and organize academic and research initiatives of the students, research scholars and teachers. The primary objective of the forum is to create linkages through inter-personal and inter-departmental collaborations to enhance the quality of learning environment of our college. The forum undertakes various events and activities like invited talks by eminent personalities/researchers, periodical presentations, organization of academic fests/competitions etc. The functioning of ARF is controlled by an Executive Committee with representatives from all departments. The Chief Patron (Manager), Patron (Principal), and the Coordinator (Dr. Prabhakaran Nair V.R) lead the Executive Committee.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of Research Schemes/ Projects?

1. The College allows the Principal Investigator of a Project to enjoy autonomy in carrying out the work, appointment of Research Assistants, purchasing equipment etc. within the rules and guidelines issued by the funding agency.
2. Fund is transferred to the account of the Principal Investigator as and when released by the funding agency.
3. The College extends all facilities including infrastructure and human resources to the Principal Investigator. The investigators are allowed to use internet, Central Computing Facility, INFLIBNET and lab facilities to carry out the project. The college supports investigators in their technology and information needs. The college subscribes to more than 200 national/international journals.
4. Duty leave, time off, relaxation in teaching load etc are permitted as per the guidelines of University and Government.
5. Facilitates timely auditing and submission of utilization certificate to the funding authorities. Research Monitoring Cell monitors the progress of projects and timely submission.
6. Other Support:
 - a) Purchase of equipments and computers are made in consultation with the teachers who undertake projects.
 - b) Upgradation of research labs are undertaken in accordance with the needs of principal investigators.
 - c) Encouraging faculty to conduct / participate in seminars, workshops and conferences.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

- A number of seminars/conferences, workshops and invited lectures are organized by each department. Students are directed to actively involve in the organization of academic events. The departments make arrangements for students to interact with national and international experts participating in conference/seminars so that they are exposed to current research trends and challenges.
- Students are encouraged to involve in research studies undertaken by the faculty. Students are allowed to participate in the preparation of

questionnaire/question schedule and socio-economic surveys conducted as part of the project studies by teachers.

- As far as possible, students are advised to undertake project studies relevant to the relevant local issues and suggest measures for improvement as part of the curriculum.
- The Academic and Research Forum often conduct classes on research methodology for the PG students. They are encouraged to attend the invited talks by external experts.
- It is compulsory that the research scholars in the college have to present their work before a meeting of teachers and students, prior to the submission of his/her research thesis to the University. This practice has helped to induce confidence in many of our students to take up active research.
- We extend facilities to students from other colleges also. We conduct research experience camps, exhibitions, quiz competitions etc. on our own and in collaboration with other Govt. agencies.
- The college has decided to publish a research Journal 'SANATANAM'. The inaugural issue of the journal (Vol 1, No, 1 June-December, 2016) will be released soon. It has been decided to distribute copies of the journal to all PG students.
- The college subscribes a number of research journals and online journals. The publications by faculty and research scholars as well as student project reports are available through intranet facility.
- Reading week and book exhibitions are arranged periodically under the auspicious of various departments/forums.
- Science Departments celebrate National Science Day with exhibitions, quiz programmes, essay and debate competitions. The students are the main organisers, participants and beneficiaries of these events.
- Arts Departments organize reading weeks, book exhibitions and lectures and produce literary magazines, dramas and newsletters, which involve students in the research and organizational activities, thus fostering their academic and creative skills.
- The Commerce stream too conducts paper presentation contests, quiz and debate programmes, and fests under the ED club that promotes the research and creative practices of students.
- Many departments offer awards and incentives to encourage research among students. They are also encouraged to participate in research competitions organised by other colleges, and a few students have won prizes at such events.

3.1.5. Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.)

Table 3.2: Faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research)

Sl. No.	Faculty	Department	No. of Ph.Ds Awarded during 2011-16	No. of Ph. D students presently under the faculty	Number of UGC Research Projects Undertaken	Collaborative Research
1	Mrs. R. Karthika	English	-	-	1	-

2	Ms. Neetha Prasad	English	-	-	1	-
3	Dr. Valsalakumari	Malayalam	-	-	1	-
4	Dr. S. Ajayakumar	Malayalam	-	-	1	-
5	Dr. Sindu Antherjanam D.	Mlayalam	-	-	1	Yes
6	Devi. K. Varma	Malayalam	-	-	1	-
7	Dr. S. Sajith Kumar	Malayalam	-	5	-	-
8	Dr. Sasikala Nampoothiri	Hindi	-	-	1	-
9	Dr. J. Veena	Hindi	-	-	2	-
10	Dr. Jyotisree Balakrishnan	Hindi	-	-	1	-
11	Dr. Poornima	Hindi	-	-	1	-
12	Dr. R. Sreekumar	Mathematics	-	-	1	Yes
13	Dr. Bibin K. Jose	Mathematics	-	-	1	Yes
14	Dr. Sreejith K. Pisharady	Physics	-	-	1	-
15	Sri. Rakesh Chandran S.B	Physics	-	-	1	Yes
16	Dr. S.R. Rajesh	Physics	-	-	-	Yes
17	Dr. Sreekanth J. Varma	Physics	-	-	1	Yes
18	Dr. K.H. Prema	Chemistry	-	1	2	-
19	Dr. P.S. Parameswaran	Chemistry	-	-	2	-
20	Dr. V.S Harikumar	Botany	-	-	1	-
21	Dr. Binoj Kumar S	Botany	-	-	1	Yes
22	Dr. P.R. Unnikrishna Pillai	Botany	-	-	1	-
23	Dr. C. Dileep	Botany	-	2	2	Yes
24	Dr. V. N. Sanjai	Botany	-	-	-	Yes
25	Dr. Sreeranjini	Botany	-	-	1	-
26	Dr. Meena Janardhanan	Botany	-	-	1	-
27	Dr. G. Nagendra Prabhu	Zoology	1	1	4	Yes
28	Dr. Maya B. Nair	Zoology	-	-	1	-
29	Dr. Padmaja D. Namboodiri	Economics	-	3	-	-
30	Sri V.C. Asokan	Economics	-	-	1	-
31	Smt. V. Anupama	Economics	-	-	1	-
32	Dr. V.R Prabhakaran Nair	Economics	-	2	1	-
33	Dr. S. Nataraja Iyer	Commerce	1	5	-	-
34	Dr. Jubily Navaprabha	Commerce	2	5	2	-
35	Dr. T.R. Anil Kumar	Commerce	-	2	-	-
36	Dr. L. Ushakumari	Commerce	-	5	1	-
37	Sri. Krishnan. M	Commerce	-	-	1	-
38	Sri. Vineeth Chandra K.S	Commerce	-	-	1	-
39	Sri. Prasanth Pai	Commerce	-	-	1	-

40	Smt. Priya	Commerce	-	-	1	-
41	Dr. Rajalekshmi	History & Political Science	-	-	1	-
42	Dr. Jayakumar S	History & Political Science	-	-	1	-
43	Dr. M.P. Ajith Kumar	History & Political Science	-	5	-	-
44	Dr. Umadevi S.	History & Political Science	-	5	-	-
45	Dr. K.K. Narayanan	Physics	-	-	1	-

3.1.6. Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Table. 3.3

Details of workshops/training programmes/ sensitization programmes organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Sl. No.	Programme	Organizing Department	Dates	Funding Agency
1	One day FDP on Teaching Learning Methodologies	Academic and Research forum	15/October/2015,	UGC
2	Workshop on Research Writing and Publication	Dept. Of Commerce	21-23 Aug 2012	UGC
3	National Seminar on Preparation and Presentation of Literature Review for Research Works in Social Sciences	Dept. Of Commerce	23 rd May 2014.	UGC
4	Two-day Workshop on Statistical Analysis	Dept. of Commerce	20-21 September 2014	College
5	Three day work shop on General Informatics	College	22 nd to 24 th 2011	Kerala state Higher Education Council
6	Workshop on the newly introduced RUSA (Rashtriya Uchchar Shiksha Abhiyan)	IQAC	05.06.2014	Management
7	Quality standards and Bench marking in higher education	IQAC	14.12.2015	Management
8	Quality Sustenance for reaccreditation	IQAC	8 th January, 2016	Management
9	Workshop on 'Capacity Building for Women Managers in Higher Education'.	Women's Study Cell	6 th to 10 th February 2012	UGC
10	One Day Workshop on	College	8 th December 2011	KSCSTE

	IntellectualProperty Rights			
11	Three Day Workshop on Film making	Film Club & Dept. of English		UGC
12	Initiation to Mathematics-Three Weeks National Workshop	Dept of Mathematics	29.04.2013 to 11.05.2013	NBHM, Mumbai

3.1.7. Provide details of prioritized research areas and the expertise available with the institution.

Table 3.4

Prioritized research areas and the expertise available with the institution.

Department	Name of Experts	Experts Available Prioritized Research Areas
English	Dr Bindu Nair	Gender studies
	Dr. Leena P Pai	Narratology, Indian Aesthetics
	Dr. Tommy John	Translation Studies
	Dr. Krishnan Namboothiri	Eco Aesthetics, Eco criticism
Malayalam and Sanskrit	Dr. S. Harikumar	Poetry
	Dr. G. Valsala Kumari	Novel
	Dr. S. Ajayakumar	Folklore studies
	Dr. Sindu antherjanam D	Comparative literature
	Dr. K. Narayanan	Sanskrit Jyothisham
	Dr. Devi. K. Varma	Performing Arts
	Dr. S. Sajith Kumar	Short stories, Novel
Hindi	Dr. Shashikala Nampoothiri	Story
	Dr. Veena. J	Poetry
	Dr. Jyothisree Balakrishnan	Novel
	Dr. Poornima	Drama
	Dr. P. Sanjayan	Poetry
Commerce	Dr. S. Nataraja Iyer	Finance Derivatives
	Dr. Jubily Navaprabha	Finance Marketing
	Dr. T.R. Anil Kumar	Tourism, Finance and Banking
	Major (Dr). R. Unnikrishnan	Human Resource Management
	Captain (Dr). K.R. Assalatha	International Finance
Economics	Dr. Prabhakaran Nair V.R	Corporate Finaning Rural credit
	Dr. S. Rajesh Kumar	Economics of Insurance
	Dr. Padmaja D. Namboothiri	Development Economics
	Dr. Jacob Chandy	Agricultural Economics
History and Political Science	Dr. R. Rajalekshmi	Temple Studies
	Dr. S. Umadevi	Political Sociology, Election Studies
	Dr. S. Jeyakumar	Urban Studies
	Dr. M.P. Ajith Kumar	Indian Culture and Thoughts
Mathematics & Statistics	Dr. R. Sreekumar	Topology
	Dr. S. Vijayakrishnan	Convexity Theory
	Dr. V.G Rajalekshmi	Mathematical Computing
	Dr. Bibin. K. Jose	Graph Theory
Physics	Dr.T.R. Sherley	Material Science, Electronics
	Dr.Sreejith K Pisharady	Material Science
	Dr. K.K. Narayanan	Electronics and Microwave

		Antenna
	Dr. S.R. Rajesh	Astro Physics and Non-Dynamical System
	Dr. Sreekanth J. Varma	Material Science and Opto-electronics
Chemistry	Dr. B. Ushakumari	Applied Chemistry
	Dr. K.H. Prema	Polymer Chemistry, Nano Ferrites
	Dr. P. Girija	Applied Chemistry
	Dr. P.S. Parameswaran	Polymer Chemistry
	Dr. C. Krishnakumar	Inorganic Chemistry
Botany	Dr. V.S. Harikumar	Micro Biology
	Dr. Binojkumar	Taxonomy
	Dr. C. Dileep	Mycology and Plant Pathology
	Dr. V.N. Sanjai	Plant Taxonomy
	Dr. T. Sunilkumar	Ethno Botany, Plant Taxonomy
	Dr. Sreeranjini	Bio technology
	Dr. P.R. Unnikrishna Pillai	Bio technology
Zoology	Dr. N. Prabhakaran	Marine Science
	Dr. G. Nagendra prabhu	Microbial Bio Technology
	Dr. Maya. B. Nair	Bio science
	Dr. P.G. Suresh	Environmental Studies
	Dr. K. Reghunath	Bio- Technology
Physical Education	Dr. P. Sunil Kumar	Sports Biomechanics

3.1.8. Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The college gives utmost importance in inviting eminent researchers, reputed scientists, and distinguished social scientists for interacting with our students and teachers. The Academic and Research Forum organize invited lecture series by eminent scientists and researchers for the benefit of staff and students. The research departments also invite eminent researchers as part of their activities like seminars to present papers and interact with the students. The College also conducts schemes like “Walk with a Scholar” of the Department of Higher Education, Govt. of Kerala under which eminent scholars/experts are invited for generation of interest towards basic research among students. We also organize International/National Conferences, Seminars and Training Programmes in which the resource persons are requested to interact with the students. During the last five years, the following scientists delivered the following lectures/motivation classes:

Table 3.5
Details of Scientists/Experts who Visited the Campus

Sl. No.	Name of the Scientist/ Expert	Designation	Topic/Occasion
1	Padmasree Prof. (Dr.) N.R. Madhava Menon	Founder Director, National Law School, Bangalore	Invited Lecture on Education Day During Founder’s Day Celebration.
2	Prof. Mikhail. V Volkov	Mathematical and Computer Scientist, Ural Federal University, Ekaterinberg, Russia	Invited lecture under ‘Erudite 2016’ sponsored by Cochin University of Science and Technology (CUSAT)
3	Dr. G. Madhavan Nair	Former Chairman, ISRO	Dr. Abdulkalam Memorial Lecture
4	Dr. B.N. Ghosh	Emeritus Professor, Cyprus	Invited Talk on Human

		University	Development
5	Sri. Venkita Krishnan	Scientist , Catalysis Division, VSSC, Tvm	Invited talk in catalysist making and memories on A.P.J Abdul Kalam
6	Dr. K.G.K Warrier	Chief scientist& CSIR emeritus scientist (Retd) Ceramics consultant	Invited talk in Nano Chemistry, UGC sponsored National Seminar
7	Padmabhooshan Kaavalam Narayana Panicker	Dramatist, Critic	Seminar- Thampuran Anusmaranam
8	Mr. Benyamin	Award winning Author	Inauguration of Golden Jubilee Year Celebrations
9	Sri. V.J. James	Novelist, Engineer , Vikramsarabhai Space Centre, Thiruvananthapuram	The Memorial talk of APJ Abdul Kalam
10	Ms. Gayathri Nair IES	Deputy Adviser, Planning Commission of India	Invited talk on Inflation Targeting
11	Sri. K. M Chandrasekhar I.A.S (Retd)	Hon. Vice Chairman, Kerala State Planning Board	Inauguration of Research Centre in Economics
12	Dr. C.T. Aravindakumar	Dean, School of Chemical Sciences, Mahatma Gandhi University	Invited talk in connection with National Science Day Celebration
13	Dr. K.G. Raghu	Principal Scientist, Agro-processing & Natural Products Division, NIIST	FLAIR Award Lecture
14	Sri. SSN Moorthy, IRS	Commissioner of Direct Taxes, Govt. Of India	P K Padmanabhan Potty Memorial Lecture
15	Dr. Rajeev Kumaramkandath	Fellow, Indian Institute of Advanced Studies, Shimla	Seminar- Cultural Studies
16	Dr. Edamana Prasad	Associate Professor, Dept of chemistry, IIT Chennai	Invited talk in Nano Chemistry, UGC sponsored National Seminar
17	Sri. T.P.Srinivasan	Former Diplomat-IFS	Celebration of Youth Day
18	Dr. R.A. Ramanathan	Emeritus Professor, IIT, Mumbai	Teaching on Macro Economics
19	Sri. K. Jayakumar IAS	Vice-Chancellor, Thunjathu Ezhuthatchan Malayalam University	P K Padmanabhan Potty Memorial Lecture
20	Dr. Subramaniam Moosath K. S	Professor, Indian Institute of Space Science and Technology, Trivandrum	Resource person National Seminar
21	Smt. Lekshmi Kumari	Scholar and Orator, Former Chair person Vivekananda Kendram. Kanyakumari	Celebration of Youth Day
22	Dr.K. Sandeep	TIFR, Bangalore and Shanti Swarup Bhadnagar Award winner 2015	National Seminar Keynote address
23	Dr. Ajith Prabhu	Joint Director, KSCSTE	Invited talk in connection with International Soil Day Celebration

24	Dr. A. Vijayakumar	Professor, Dept. of Mathematics, Cochin University of Science and Technology, Cochin	Motivation Class
25	Dr. S. Kevin	Ex. Pro VC, University of Kerala	UGC sponsored National Seminar.
26	Dr. Anithadas	Scientist, Central coir research institute, Alappuzha	Inauguration of Chemistry Association
27	Dr. M.P. Subramanian	Ex VC Mangalore Uty.	UGC Sponsored National Seminar
28	Mr. Ajith Kumar	Computer professional from UK	Regional talk on Computer applications
29	Sri. Perumpadavam Sreedharan	Novelist, President of Kerala Sahitya Academy	Seminar- Ramavarmathampuran Smaraka Prabhshanam
30	Shri. Salim	Regional Director, RBI	UGC Sponsored National Seminar
31	Dr. P. Rajendran	VHNSN College Virudhanagar	UGC Sponsored National Seminar
32	Smt. Monica	Faculty, Rajagiri	UGC Sponsored National Seminar
33	Sri. C. K. Vijayappan	Dy.SP Crime Branch	UGC Sponsored National Seminar
34	Sri. Rajesh R. Bhatt	ACA	UGC Sponsored National Seminar
35	Sri. Jayan K	ACS	UGC Sponsored National Seminar
36	Dr. Gopalakrishna Sharma	CMA	UGC Sponsored National Seminar
37	Sri. Azad	ADM, Alappuzha	UGC Sponsored National Seminar
38	Sri. R. Krishnan	ACA	UGC Sponsored National Seminar
39	Sri. A C K Nair	Executive Director, CIAL	Inauguration of Golden Jubilee celebration of the Department
40	Dr. P. Manoj	Associate Professor, St. Michael's College, Cherthala	Chemistry Association Inauguration
41	Dr. Sadasivan	Associate professor, University college, TVM	Chemistry Association Inauguration
42	Dr. S. Murukan	Professor, Dept of Chemistry, ST Hindu, College, Nagarcoil	Workshop on Microscale experiments in chemistry
43	Dr. Edamana Prasad	Associate Professor, Dept of Chemistry, IIT Chennai	Training for teachers based on teaching and learning process
44	Dr. A Sreekanth	Associate Professor, Dept of Chemistry, NIT, Trichy	Invited talk in chemistry, UGC sponsored national seminar
45	Dr. Sr. Jannet	Principal, St Joseph's College, Alappuzha	Inauguration of Chemistry Association
46	Dr. Mary George	Member, Kerala State Public Expenditure Committee	UGC Sponsored National Seminar
47	Dr. D. Narayana	Consultant, State Planning Board, Trivandrum	UGC Sponsored National Seminar
48	Dr. B Hariharan	Associate Professor, Institute of English	Akshayakumar Memorial Lecture
49	Smt. Jaisree Mishra	Novelist	P K Padmanabhan Potty Memorial Lecture and Guruvandanam
50	Dr. Rama Krishnan	Professor of English, University of Singapore.	Motivation Class for Students
51	Dr. M. V. Narayanan	Professor and HOD of English, Calicut University	Akshayakumar Memorial Lecture

52	Dr. C. S Jayaram	Artist and Professor, Amritha Institute of Management	Akshayakumar Memorial Lecture
53	Prof. Tessy Xavier	Associate Professor, Dept. of English, St. Josephs College, Alappuzha	English Association Inauguration
54	Dr. Siby James	Associate Professor St. Thomas College, Pala	Akshayakumar Memorial Lecture
55	Dr. V C Harris	Professor, School of Letters	P K Padmanabhan Potty Memorial Lecture
56	Dr.Sandhya P Pai	Associate Professor, Dept. of English St. Josephs College, Alappuzha	English Association Inauguration
57	Sri. Balu	Art Director	Film Work-shop
58	Sri. Sunny Joseph	Cinematographer	Film Work-shop
59	Sri. Lijin Jose	Film Director	Film Work-shop
60	Sri. Kamal	Film Director	Film Work-shop
61	Dr. Meena T Pillai	Associate Professor, Institute of English	Akshayakumar Memorial Lecture
62	Prof. P. Harikrishna	Head,NSS College, Pandalam	English Association Inauguration
63	Mr. Anil Kumar	HSA, Palakkad,Teacher	General talk on Hindi Literature
64	Dr. Roy Joseph	HOD Hindi, SB College, Changanassery	Invited talk in Official Language Hindi,Translation
65	Dr.Vinayachandran	HOD Hindi, University College, Trivandrum	Validictory Function of Hindi Week
66	Dr. N.Mohanan	Dean, Hindi Department, Cochin University	Seminar talk on Modernisation & Literature
67	Dr. K.Vanaja	HOD, Hindi Department, Cochin University	Seminar talk on Contemporary & literature
68	Mr. A. Somadathan	Ret.Asst.Director, Official language in Hindi,Income Tax	International Hindi Day
69	Sree. Madhavan Pillai	Ret. Prof in Hindi, N S S College, Changanacherry	Lecture on Translation Theory & Practice
70	Dr.Sheena Eapen	HOD & Associate Prof., St.Thomas College, Kozhancherry	Inauguration of Hindi Association and Talk on Women's literature
71	Dr. S.K.Jayasree	Asst.Prof, Hindi Department, M.G.College , Trivandrum	Lecture on Indian Film History
72	Sri. M.G. Sasibhushan	Malayalam Professor, Scholar and Orator	Merit Day 2011-12
73	Prof. Sankaran Raveendran	Professor of English, Uty of Calicut	Inauguration of History Association
74	Dr. Aju Narayanan	Assistant Prof. in Malayalam, UC College, Aluva	Inauguration of History Association
75	Dr. Ciriack Thomas	Politics Prof, Former VC in MG University	Celebration of Youth Day
76	Sri. Allepey Ashraf	Veteran Film actor and Director and member of Alumni Association	Inauguration of History Association
77	Sri. Biju E. Paul	Journalist	Talk on Human Rights
78	Adv.G. Balagopal	Former Chief of Fingerprint Bureau	Session on Human Rights

79	Retd. Justice K.T Thomas	Former Judge, Supreme Court of India	Session on Human Rights
80	T.R Somasekharan	Scholar and Orator	Talk on –Matter, Mind and Consciousness
81	Prof. Tony Mathew	Malayalam Professor, Scholar and Orator	Celebration of Youth Day
82	Dr. T.S. Gireeshkumar	Prof. Of Philosophy, MS Uty, Baroda	Inauguration of History Association
83	Dr E.N Sivasdas	Associate Prof. of Politics, SN College, Cherthala, Scholar and writer	Session on Human Rights
84	Sri. Kureepuzha Sreekumar	Poet	Invited talk in ‘Rajathavicharam’
85	Dr. Harikumar Changampuzha	Associate professor, School of Letters, M.G University	Malayala maholsavam
86	Dr. P. Venugopal	Malayalam Lexicon Editor	Seminar- Kathakali ragavum padavum
87	Dr. Harikumar Changampuzha	Associate professor, School of Letters, M.G University	Inauguration of Malayalam Association
88	Dr. M. Vijayappan	Professor,Head of the Department, Calicut University	Inauguration of Alumni Association
89	Sri. C. Radhakrishnan	Novelist	Inauguration of Malayalam Association
90	Sri. Nedumudi Venu	Veteran Film Star	Inauguration of Malayalam Alumni Association
91	Prof. Ambalapuzha Gopakumar	Poet, Critic	Invited Talk on Regathavicharam
92	Sri. Kureppuzha Sreekumar	Poet	Seminar - Eshtamudikayal
93	Dr.Atheena Niranjana	Poet, Assistant Professor, N.S.S College, Cherthala	Seminar- Vylopalliyum Vayalarum Malayala Kavithayil
94	Sri. Thomas Jacob	Editorial Director, Malayala Manorama	Seminar- Pathralokam
95	Sri. Jose Panachippuram	Associate Editor Malayala Manorama	Seminar- Ezhuthinte Kala
96	Sri. Jony Lukose	News Director Malayala Manorama	Practical Session Reporting
97	Sri. Jayachandran Elangath	Chief Reporter Malayala Manorama	Editing Practical Session
98	Sri. Sreejith K Warrior	Sub. Editor Malayala Manorama	Editing Practical Session
99	Sri. Perumpadavam Sreedharan	Novelist, President of Kerala Sahitya Accademy	Seminar- Ramavarmathampuran Smaraka Prabhathanam
100	Sri. Sreejith Nair	Chief Reporter, Amrutha T.V	Talk- Pathralokam
101	Sri. M. K. Sanu	Critic, Writer	The Memorial talk of Rama Raja Varma
102	Prof. M.V. Krishnamoorthi	Associate Professor, Department of Malayalam, S.N. College,Cherthala	Inauguration of Malayala Samajam
103	S. Narayanan Namboothiri	Chief, AIR, Thiruvananthapuram	Talk- Media Session
104	Brahmachari Dhruva	Swami Chinmaya Mission	Rachatha Vicharam-Geetha

	Chaithanya		Sandesam
105	Sri. S. Muhammed Bhasheer	Arabic teacher	Rachatha vicharam Quran
106	Father G O Thakadiyil	C S I Church	Rachatha vicharam- Bible Dharshanam
107	Prof. Chandradasan	Artist, Drama School , Thrissur	Ramayana chintha- Lankalekshmi
108	Dr. Seema Jerome	Asst. Prof. Kerala University, Karyavattom	Ramayanachintha- Puthuramayanam
109	Dr. T A Sudhakara Kurup	Principal, N S S College	Seminar- Keralapiravi Dinakhosham
110	Dr. V.H. Dirar	Regional Co-Ordinator, Kuttanad Heritage Study	Seminar-Kerala Culture
111	Prof. Ramaraja Varma	Sanskrit Writer and Former Principal, S D College	Seminar-Bharathaparyadanam
112	Prof. Viswanathan Namboothiri	Associate Professor, Sanskrit Department, Baseliyas college , Kottayam	Seminar-Kalidasanum Reghuvamsavum
113	Dr. Mariyamma Panjikkaran	H.O.D, English Department, St. Gregorious College, Punnapra.	Seminar-Pennidam "Ezhuthinte Thantedam"
114	Dr. Shaji Jacob	Associate Professor, Sree Sankara Sanskrit University, Regional Centre, Thuravoor.	Seminar- Dasthoveski
115	Prof. Reghunathan Pillai	Associate Professor, Govt. Womens College, Thiruvananthapuram	Seminar-"Rajankanam" Kuttikrishna Mararu
116	Dr. C.T. Francis	Associate Professor, Sanskrit Department, St. Thomas College Pala.	Seminar-Ramayana Vicharam
117	Dr. K. M. Bharathan	Reader, Malayalam University, Thuravur	Seminar-Folklore
118	Sri. Kalamandalam Ganesan	Performer, Kunjan Smarakam	Seminar-Thullal Aragum Ezhuthum
119	Dr .K. S.Revikumar	Associate Professor, Dept. of Malayalam, N.S.S.College, Changnaserry	Seminar-Nattarivum Mozhiyum"Patayani"
120	Sri. Asokan	Photographer, Environmentalist	Seminar-"Pachapp" Green Docu-Fest
121	Prof.S.Kumaresan	Dean of Science, (Member of FIST, NBHM) Hyderabad University .	National Seminar- Keynote address
122	Dr. G. Suresh Singh	Professor and Board of Studies Chairman (P.G), University of Kerala, Kariyavattom Thiruvananthapuram	Resource person, National Seminar
123	Dr. J. Robert Victor Edward	Associate Professor, Scott Christian College(Autonomous) Nagercoil)	Resource person, National Seminar
124	Dr. Vishnu Namboothiri K.	Assistant Professor, BJM Government College, Chavara	Resource person, National Seminar
125	Dr.Paul Issac	Associate Professor,	Resource person, National

		BharathMatha College, Ernakulam& Kerala Mathematical Association, Scecratary	Seminar
126	Dr.A.R.Rajan	Former HOD ,Department of Mathematics, University of Kerala,Kariyavattom	Resource person-National Seminar
127	Dr.A Sunny Kuriakose	Dean ,FISAT,Angamaly and Academic Secretary , Kerala Mathematical Association	Resource person-National Seminar
128	Dr.A Sunny Kuriakose	Dean ,FISAT, Angamaly and Academic Secretary , Kerala Mathematical Association	Resource person-National Seminar
129	Dr.K.P Naveenachandran	Associate Professor and Head (Maths), Govt.College, Chotoor.	Resource person National Seminar
130	Dr.Veeramony	Former Cotroller of Examination , University of Kerala and former Professor and Head (Mathematics), University of Kerala, Kariyavattom.	Resource person ,Regional Seminar and Mathematics Association Activity inauguration
131	Mr.Ajith Kumar	Computer professional from UK	Regional talk on Computer applications
132	Dr.A.R.Rajan and Dr. G. Suresh	Department of Mathematics, University of Kerala	Inter university project competitions, Mathematical year celebrations 2012
133	Dr.Romeo	Head of the Deparment of Cochin University	
134	Dr Anilkumar	Department of Mathematics, Calicut University.	
135	Dr.R.Jayakrishnan	Assistant Professor of Physics, Christian College,Chengannur	Resource person; International Year of Light and light based technologies,2015
136	Dr K.P. Satheesh	Retd. Principal, Brennan College, Thalasserry	Resource Person, '100th year of Bohr Atom Model', Seminar
137	Dr. A. Abraham	Assistant Professor of Physics, Christian College,Chengannur	Inauguration of theoretical lab
138	Dr.K. P. Vijayakumar	Emeritus Professor	Inauguration of SARD Lab
139	Dr. T.P. Krishnan Nair	Retired RMO, Govt. Ayurveda Hospital, Alappuzha	Zoology Association Day Celebrations
140	Dr.K. Hariprasad	Orthopaedician, Medical College, Alaappuzha.	Zoology Association Day Celebrations
141	Dr. S. Rupesh	Head. Dept of Dentistry, Pushpagiri Medical College, Thiruvalla	Zoology Association Day Celebrations
142	Dr. K.Hariprasad	Orthopaedician, Medical College, Alaappuzha	Zoology Association Day Celebrations
143	Dr. R. Selvam	Professor & Head, Dept. of Zoology, Bishop Heber College, Trichy.	Invited talk on Career Opportunities for Zoology Graduates
144	Dr. Jude Emmanuel	Professor & Head, Dept. Of Environmental Science, St. John's College, Anchal.	Invited talk in connection with Ozone day Celebration

145	Dr. Rajesh Reghunath	Coordinator, IIUCNRM, University of Kerala	Invited talk on Wetland Conservation
146	Dr. G. Prasad	Professor & Head, Dept. of Zoology, University of Kerala	Invited talk on biodiversity Conservation
147	Dr. Chinnu S	Senior research associate, Dept of Geology, University of Kerala	Invited talk on Remote Sensing
148	Dr. M. Jayakumar	Chief Psychiatrist Retired Superintendent District Hospital, Alappuzha	Zoology Association Day Celebrations

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

As per the existing rules of the Government of Kerala, sabbatical leave is not available to teachers in affiliated colleges. However, the college allows duty leave and study leave for undertaking research activities. A good number of teachers had availed leave under faculty development programme of UGC for pursuing doctoral research. This has resulted in publishing more research papers by the faculty.

3.1.10. Provide details of the initiatives taken up by the institution in creating awareness/ advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

- Many members of the faculty serve as Resource Persons in various academic, social and community platforms in the area of English language learning and communication skills.
- The Drama Club and Film Club produced street plays and films on the subject of environment conservation, organ donation and other socially relevant issues. These plays and films were shared with the public through direct means and through social media platforms.
- The college has a herbal garden, maintained by the students and staff who are the members of the Bhoomitrasena Club. The Harita Sanatanam Project has actively involved the student community as well as members of society in its activities in the area of ecological awareness and bio-diversity conservation.
- National Environment Awareness Campaign (NEAC), SD College Unit was inaugurated and various activities like lectures, awareness programmes, seminars, documentary films etc were undertaken to foster environmental consciousness in the campus. The campaign, promoted and funded by the MOEF, saw the involvement of eminent environmentalists and nature lovers.
- The research project on the innovative use of aquatic weeds submitted by the team of Dr. Nagendra Prabhu and the students of the Zoology department has developed marketable commodities out of aquatic weeds.
- Special arrangements were made for the viewing of the rare phenomenon of the transit of Venus on June 6, 2012. Students, teachers and staff were given viewing aids to watch this natural phenomenon. General Public also participated to a limited extent.
- The Entrepreneurship Development Club conducted Food Fests and sales, and conducted a Soap Manufacturing workshop. The WSC also holds food and craft exhibitions. The Department of Zoology conducts training programme in Mushroom cultivation.

- The Botany Department conducts Agri-Horticultural exhibitions every year in collaboration with the State Agricultural Dept and Agri-Horti Society, Alappuzha.
- The Malayalam department organizes the Reading Week, to inculcate reading habits among students, and to promote cultural and literary activities in the mother tongue. Seminars and workshops on cultural and literary topics, and on journalism, are conducted. Book exhibitions and sales, reading sessions, lectures, competitions and visits are arranged as part of the event. The general public also participated in these activities as resource persons and participants.
- The Health Club functioning in the college organizes free medical camps for the students and the general public. An Ayurveda health camp was conducted for the students and the public; a cancer awareness class was conducted by the WSC, where Dr.Gangadharan, the famous Oncologist spoke about the causes and prevention of cancer through healthy lifestyle.
- The members of faculty of the Department of Physics are engaged in conducting awareness programmes on solar energy for the benefit of villagers and local public.
- The Departments of Chemistry and Botany have been utilizing their resources and expertise for public utility services such as soil testing, water quality testing, etc.

3.2. Resource Mobilization for Research

3.2.1. What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

During the last five years, the college has spent a significant amount for research related activities under different heads. The details of the amount spent on research related activities are presented in the following table.

Table 3.6

Amount Spent on major Research Related Activities during the period 2011 to till date

Item	2011- 2016
Common Instrumentation Centre for research	Rs.7, 83, 9, 942/-
Central Computing Facility	Rs. 9,87,500/-
Computing facilities-Softwares	Rs. 7, 00, 000/-
New Physics Research Lab for SARD Project	Rs. 2,08,350/-
Books	Rs. 11, 66, 720/-
Research Journals	Rs. 3, 43, 052/-
Lab Equipments under sponsored projects (FIST and SARD)	Rs. 68, 89, 000/-
Computers	Rs. 20, 59, 754/-
Minor and Major Research Projects	Rs. 69, 39, 500/-

Besides the above major items, the college spent a substantial amount on competence building seminars and workshops, invited talks on research issues and methodology etc. Every year the college allocates 15-20 per cent of the financial resources to various research related activities. In the post reaccreditation period, the college had spent significant amount to develop research room in the newly sanctioned four research centres in Chemistry, Commerce, Economics and Mathematics Departments.

3.2.2. Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years.

At present the college does not have provision for giving seed money to the faculty for research. But the entire necessary infrastructure and other such facilities are

provided to the teachers for carrying out their research. Besides this, there is also a practice of supplementing or advancing funds from Management and PTA fund to departments/faculty for the renovation of research labs, purchase of equipments, organizing research conferences etc.

3.2.3. What are the financial provisions made available to support student research projects by students?

No financial provisions are made by the institution to support student research projects by students. However, the college gives utmost importance to extend all research facilities at free of cost to the students. Research labs, library, computer centre, common instrumentation facility etc are freely accessible to students. Internet is also provided at free of cost to the students.

To a limited extent, financial provisions are available from some agencies for undertaking student projects. Three students of the Department of Chemistry were provided research grants amounting to Rs. 24, 500/- by Kerala State Council for Science, Technology and Environment (KSCSTE) for doing their project.

3.2.4. How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavours and challenges faced in organizing interdisciplinary research.

Inter-disciplinary studies are undertaken in connection with Minor Research Projects of the faculty and PG projects of students. The process of inter-disciplinary research includes sharing of knowledge, use of laboratories and equipments.

Some studies which are interdisciplinary in nature are:

- The testing of antimicrobial activity of newly synthesized organic and inorganic complexes by the Research Departments of Chemistry and Zoology
- Modified hydroponics and mushroom cultivation by the Research Departments of Botany and Zoology
- Testing of properties of thin films and nano-materials by the Research Departments of Physics, Chemistry and Zoology are examples.
- The research project on the innovative use of the aquatic weeds of Alleppey, taken up by the Centre for Aquatic Resources under the Zoology Department saw the active and whole-hearted involvement of students. This award winning project on the innovative use of recycled water hyacinth was promoted by the ED Club, involving students from many departments other than Zoology.

The major challenge in undertaking Inter-Disciplinary Research is the limited academic flexibility in the curriculum provided by the affiliating university and availability of finance.

3.2.5. How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

- Common meetings are held under the auspices of the ARF and other forums for facilitating interaction among the faculty. Also most of the sophisticated equipments are placed in the common instrumentation room with assured access to all interested students and faculty.
- The common facilities such as Common Instrumentation Centre and Central Computing Facility are opened to all students and teachers.
- Teachers and students are encouraged to undertake studies which are inter-disciplinary in character.
- Laboratories and internet facilities are kept open on holidays as per the prior request from faculty and students.

- Research Students from other colleges and institutions are permitted to utilize the facilities in the college library and laboratories with the permission of the Principal.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

- The P. G. Department of Physics was granted Rs. 30 Lakhs under the Selective Augmentation of Research and Development (SARD) Scheme of KSCSTE, Govt. of Kerala during the year.
- The Department of Science and Technology (DST) has sanctioned Rs. 1 crore under FIST programme to all Science Departments during 2013-14 which led to significant development in research facilities.
- In addition to these special financial supports, the college has received funds from various agencies including UGC, DST, KSCSTE etc. to undertake research projects (see table 3.7 for details).

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organisations. Provide details of ongoing and completed projects and grants received during the last four years.

The college encourages teachers to obtain projects from various funding agencies. The research monitoring committee and research forum motivates the teachers to apply for projects from various agencies. The Research Monitoring Cell collects and disseminates information on various opportunities for research funding in time and ensures that all competent faculty have applied for the same. One of the non-teaching staff is solely entrusted to help the faculty in matters of research funds. The coordinator of the research monitoring committee is solely entrusted to help the faculty in matters of research funds. The IQAC also takes keen interest in securing maximum funds through personal research projects and other development project funds.

During the last five years the faculty members undertook 39 minor projects and 2 major projects with an outlay of Rs.69,39,500/-. The details of ongoing, and completed projects during the last five years are given in the following table 3.7

Table 3.7

Details of Projects sanctioned from 2011 onwards

Sl. No	Name of the Project Holder	Title of the Project	Funding Agency	Total Grant (Rs.)	Level of Completion
1	R. Karthika	Reincarnating Indian Epic Figure as Cartoons, Comic and Caricature: a Method to inculcate Indian Cultural Values in Children	UGC	1,25,000	Ongoing
2	Neetha Prasad	Empowering the powerless: A study of women characters in the myths and legends of Kerala.	UGC	2,50,000	Ongoing
3	Dr. Sindu Antherjanam	A Comparative Study of Literature and Paintings in Kerala	U.G.C	1,35,000	Completed 2016
4	Dr. S. Ajayakumar	The Importance of Medias in Malayalam Language	U.G.C	60,000	Completed 2016
5	Dr. Devi K.Varma	Cumulative Impact of the	U.G.C	80,000	Completed

		Ethnic Folk arts and Folklore of Kuttanad.			2016
6	Dr. Shashikala Namboothiry	A painful journey in to the life of women in the background of Krishna Sobti's Novels	U.G.C	1,80,000	Ongoing
7	Dr. J. Veena	Significance of the Nationalisation and cultural Poetry of Makhanlal Chaturvedi in the special contract of Indian National Freedom Movement	UGC	1,00,000	Completed, June 2011
8	Dr. Jyothisree Balakrishnan	Problems of Widows in our society with reference to Novels of Krishna Sobti	U .G.C	90,000	Completed, 15/06/2013
9	Dr. Poornima	Habib Thanveer Ki Natyakrithiyom Meim Bharatheeyatha Ki Khoj	UGC	1,20,000	Completed, March 2013.
10	Sri. Rakesh Chandran S.B.	Modeling of charged dust environment around the Moon and a study on its impact on space missions.	UGC	2.80	Ongoing
11	Dr. Sreekanth J. Varma	Development of highly crystalline conducting polymers and polymer nanocomposites for electromagnetic shielding applications	UGC	5 Lakhs	Progress Report Submitted 2016
12	Dr. K. K. Narayanan	Microwave absorption studies in coir/coir-based products	UGC	1.55 lakhs	Completed in 2013
13	Dr. Sreejith K. Pisharady	Microwave Absorption Properties of Polyaniline Coated coir fibres	UGC	1.25 lakhs	Completed in 2014
14	Dr. K H Prema	Preparation of Magnetic Nanocomposites based on Ferrites,	U.G.C	1,60,000	Completed 2013
15	Dr. P S Parameswaran	Synthesis & Characterisation of nano gamma ferrite	U.G.C	135,000	Completed 10/02/2013
16	Dr. K H. Prema	Processability and Mechanical Studies on Natural Rubber based ferrite Composites	KSCSTE C	10,000	Completed 2014
17	Dr. P S Parameswaran	Influence of chelating agents on the properties of nanoferrites	KSCSTE C	10000	Completed 30/09/2014
18	Dr. P S Parameswaran	Synthesis of nano ZnO by Green method	KSCSTE	4,500	Completed 15/07/2015
19	Dr. S. Sreeranjini	Evaluation and propagation of Citron (Citrus medic L.)	UGC	1,85,000	Ongoing.
20	Dr. V.S Harikumar	Studies on the effect of	UGC	1,70,000	October

		Salinity intrusion on soil microbial community structure and activities in wetland agro-ecosystems			2015
21	Dr. C. Dileep	Isolation, Purification and Potential use of Plant Growth Promoting Rhizobacteria in Kuttanad Region.	UGC	1,40,000	Submitted 2013
22	Dr. C. Dileep	Isolation, Screening, and Developing the pesticide and Herbicide resistant Fluorescent Pseudomonas strains in Kuttanad region.	UGC	1,60,000	Submitted 2016
23	Dr. M.S. Binoj Kumar	Establishment of medicinal plant garden in SD College Alappuzha	State Medicinal Plant Board	2,20,000	2014
24	Dr. Meena Janardhanan	Evaluation of anticancer effect of <i>Cyclea peltata</i>	U.G.C Minor	2,30,000	Ongoing
25	Dr. Maya B. Nair	Lipid peroxidation and antioxidant status in frozen meat (<i>Bubalis bubalis</i>) samples	U.G.C Minor	2,40,000	Ongoing
26	Dr. G. Nagendra Prabhu	Exhibition and Workshop on Value Addition of Aquatic Weeds of Kerala	KSCSTE 2, 00,000	2,00,000	Ongoing
27	Dr. G. Nagendra Prabhu	Cellulase production by selected bacteria using <i>Salvinia molesta</i> as solid substrate under SSF	UGC Minor	95,000	Completed
28	Dr. G. Nagendra Prabhu	“Development of a solid state fermentation technology for cellulase production using <i>Salvinia molesta</i> as substrate	KSCSTE Major	13.15 lakhs	Completed
29	Dr. G. Nagendra Prabhu	Valorization of Aquatic Weeds of Kerala	KSCSTE Major	4 lakhs	Completed
30	Sri. V.C Asokan	Dynamics of Public Health Expenditure in Kerala and house hold health status of rural Kerala	UGC	60, 000	Completed in 2015
31	Dr. Prabhakaran Nair V.R	Impact of public policies on informal credit markets.	UGC	75, 000/-	Completed in 2015
32	Lt. V. Anupama	Rural household savings: A micro level analysis	UGC	85,000/-	Completed in 2015
33	Dr. R.Rajalekshmy	Philosophical foundations of the precepts of Chattambi Swamikal	UGC	1,00,000/-	Ongoing
34	Dr. S. Jeyakumar	Urbanization and Industrial Development in the city of Madurai (1850-1947)	UGC	1,60,000/-	Ongoing
35	Shri. Prasanth S. Pai	Problems of Tea Manufactures in Kerala	UGC	1,30,000	Ongoing

36	Shri. Vineeth Chandra K.S	Rural Empowerment –Role of Gramin Bank	UGC	70,000	Ongoing
37	Smt. Priya R.	Impact measurement of CSR activities by enterprise in Kerala	UGC	1,60,000	Ongoing
38	Shri. Krishnan. M	Management Accounting Practices of SMEs in Kerala	UGC	45,000	Ongoing
39	Dr. Jubily Navaprabha	Study on Crisis Management In Tourism Industry with special reference to Alappuzha District, Kerala.	UGC	70,000	Completed
40	Dr. Jubily Navaprabha	Negative Socio cultural impact of Tourism in Alappuzha Dist, Kerala	UGC	70,000/-	Completed 2013
41	Dr. L. Ushakumari	Financial Performance of PSUs	UGC	40,000/-	Completed 2014

3.3. Research Facilities

3.3.1. What are the research facilities available to the students and research scholars within the campus?

- Central library with adequate books and research journals through NLIST-INFLIBNET facility.
- Common Instrumentation Centre: Licensed softwares like the Matlab, LabVIEW, Mathematica and Origin 2016 were purchased and a high performance workstation with the capability of handling all the educational requirements of students/teachers/researchers in the college was installed.
- Central Computing facility with a total of 40 systems and broadband internet connectivity is available in the college which is accessible by students, research scholars and staff.
- A small computer room is also available in the college which is used generally by PG students.
- Internet connectivity in all departments- Besides every department is provided with adequate number of computers.
- Academic and Research Forum acts as a coordinator and facilitator. Selected UG and PG students are members in the executive committee.
- Special classes on research methodology/interdisciplinary research are arranged for students.
- Golden Jubilee Auditorium with Audio-Visual aids to conduct various curricular activities.
- Air conditioned Audio-Visual room is used by the students to present their seminars and work-in-progress seminars on projects.
- Smart Boards are available in selected research rooms of the college.
- Though limited in nature, collaboration with industries /institutions is arranged for visits and utilizing the facilities for research.
- The college gives importance to arrange interactions with invited scientists/experts in various fields of knowledge.
- Laboratories in all Science Departments with adequate furniture and equipment
- Smart Rooms and Seminar Halls with necessary learning facilities were set up during the last five years. Research labs/rooms with adequate electrical connections, lighting and lab-space were provided for the nearly sanctioned

Physics, Mathematics, Chemistry and Economics Research Centres in the last two years.

3.3.2. What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The college has developed strategies for proper planning and mobilizing adequate funds for creating and upgrading infrastructural facilities for research. At the beginning of every academic year, all departments work out research requirements with regard to infrastructural needs. Accordingly, the Planning Committee and Research Monitoring Cell and IQAC in consultation with the Management, and the faculty members prioritize the needs. Information regarding major sources of funding is made available to all concerned by the Research Monitoring Committee. We receive grants from funding agencies like UGC, DST, CSIR, KSCSTE, etc. The college encourages the members of faculty as well as researchers to apply for major/minor research projects/fellowships and scholarships which will help in improving infrastructure on a need-based manner. IQAC in consultation with the Planning Committee allocate and implement the purchase of various infrastructural facilities under the UGC plan fund. While acquiring equipment, the requirements of research scholars and faculty are consulted. The Management, Alumni and PTA supplement funds to meet the infrastructure needs of researchers.

3.3.3. Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes', what are the instruments / facilities created during the last four years.

The College has made an ambitious plan for expanding and modernizing its infrastructure for teaching and research. As per the plan, the College has been successful in obtaining major infrastructural grants from the State Government and Central Government in the form of SARD and FIST programmes, respectively. A total of Rs. 1.30 crores (FIST Rs. 1 crore and 30 Lakhs for SARD) have been sanctioned under these schemes which led to significant development in research facilities.

Table 3.8
Instruments/ facilities created under FIST-DST*

*FIST (Fund for Improvement of S&T infrastructure in universities & higher educational institutions) is an initiative by the Department of Science and Technology, Govt. of India towards providing basic infrastructure, enabling facilities and environment for promoting R&D in new and emerging areas in Colleges and Universities all over the country. During 2014-15, the college qualified for funding from the DST under the FIST scheme and received Rs. 1 crore (maximum available funding for Level-0).	
	Total Amount Sanctioned: Rs. 1 Crore
I.	Research Equipments: Rs.50 lakhs
1	UV-Vis Spectrophotometer
2	Spectrofluorophotometer (Fluorescence Spectrophotometer)
3	Cyclic Voltammetry Workstation/ Impedance Spectroscopy Workstation (Electrochemical Impedance Spectroscopy System)
4	High Performance Computing Facilities (Workstation)
II.	Basic Science Teaching: Rs.32 lakhs
1	Oscilloscope for PG and UG
2	Storage Oscilloscope
3	GM Counter
4	ESR Spectrometer

5	Microscope with Digital Camera (Transmission)
6	He-Ne Laser
7	Optical Fibre Characterization setup
8	Hall effect setup
9	Microprocessor Trainer Kit (8085)
10	Microprocessor Trainer Kit(8086)
11	e/m apparatus
12	Planck's constant apparatus
13	Michealson's Interferometer
14	Crystal with glass stand (for ultrasonic Expt)
15	Bandgap Energy by 4-probe
16	Fume Exhaust Hood, 1.5 Mtr.6" pipe size working table, 90x60x60
17	Autoclave Vertical, Complete S.S, Cap.23 Lit.
18	Water Still Table Top, (Branstead type) Cap.4Lit/hr
19	Wrist Action Shaker, for 8 flasks (500ml)
20	Water Bath Single wall (No.of holes 9)
21	Rotamantle, Cap.1 Lit
22	Cyclomixer
23	UV Cabinet, with UV (short and long wavelength)
24	Bunsen burner-with energy regulator
25	Melting point apparatus simple type-
26	Soxhlet apparatus-cap 200ml, flask size 500ml
27	Heating mantle-1000ml
28	Heating mantle 500ml
29	Abbey refractometer-without sodium lamp set-good quality
30	Microwave Oven
31	Stereo Zoom Microscope
32	Ph/Conductivity Benchtop meter
33	Quartz Double Distillation unit
34	TLC Kit
35	Steel Herbarium Rack
36	Rotary Microtome
37	Student Microscope
38	Refrigerated High Speed Centrifuge and accessories
39	Microscopes for Teaching
40	Electronic Balance (3 digit)
41	Softwares
	(a) Mathematica
	(b) Matlab + toolbox sets
	(c) Origin Pro
	(d) LabVIEW (Academic)
42	Table-top Pellet Press and Die sets
43	Electronic Balance (5 digit)
III.	Networking and Computational Facilities: Rs. 7 lakhs
IV.	Books: Rs.3 lakhs
V.	E-learning facilities: Rs.5 lakhs
VI.	Maintenance: Rs.3 lakhs
VII	Construction of a separate building named Abdul Kalam Memorial Common Instrumentation Centre by the Management: Rs. 78.40 Lakhs
	For the installation of the high end equipment purchased under FIST.

Table 3.9
Instruments/ facilities created under SARD-KSCSTE**

** The research facilities under SARD were sanctioned by KSCSTE, Govt. of Kerala to enhance the research facilities in the Dept. of Physics. The facilities include most of the basic instruments for materials synthesis, processing and characterization. The facilities under SARD scheme makes it possible to carry out research work in the fields of Materials Science, Optoelectronics, Organic Electronics and Nanoscience.	
Sl. No	Name of the Facility
1	Source meter (Keithley 2400)
2	Digital Multimeter (Keithley 2001)
3	Four-point and 2-point probe setups with temperature controllers (-50 to 150 °C)
4	Muffle Furnace (1100 °C)
5	Vacuum Oven (250 °C)
6	Hot air Oven (150 °C)
7	Bath sonicator
8	Quartz Double distillation unit
9	De-ionization Unit
10	Ika Magnetic Stirrers with temp. controllers
11	Rotary Vacuum pumps
12	pH meter
13	Table-top hydraulic pellet press
14	Refrigerator
15	3 KVA UPS with 4 hrs backup
16.	Research Lab Room to keep all the instruments purchased under SARD (Separately Financed by the Management)

3.3.4. What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?

- The college believes in the idea of sharing its resources with other interested students and faculty from nearby schools and colleges. Expert faculty from other colleges is allowed to register as recognized research guides using the facilities of our college.
- We take our students to visit other reputed institutions/laboratories both at the state level and national level. Language departments arrange visits for students to reputed libraries and research/cultural centres.
- For the benefit of final year degree students, the reputed newspaper firm Mathrubhumi conducts job orientation classes to select apprentices for training.
- Students and scholars are encouraged to avail facilities of research laboratories and library resources in other colleges/institutions/universities. Students are given opportunities to visit National research institutions like IISER, ICSSR, CMFRI, TBGRI, EFLU, etc.

3.3.5. Provide details on the library/ information resource centre or any other facilities available specifically for the researchers?

The College subscribes to INFLIBNET and print journals in various areas as per the request of research departments. CD ROMS and internet facility is provided to them free of cost in the Library, Computer Centre as well as in the Departments. Separate space is provided in the general library of the college for research scholars. Of the total allocation, annually 25% of the library fund is utilized for the purchase of advanced research books and journals. Separate seating arrangements and computing facilities are arranged (research scholar's

room) for use by the scholars in all the six Research Departments. Specialized research labs are available for research scholars in Science research departments. Besides all these, the Kerala University Study Centre located opposite the college campus is accessible to the research scholars.

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college. For eg. Laboratories, library, instruments, computers, new technology etc.

The collaborative research facilities created in the college include:

- Dr. A.P.J Abdul Kalam Memorial Instrumentation Centre has a separate building for keeping the instruments purchased under the Department of Science and Technology (DST)-FIST Scheme.
- All research labs and research departments have been upgraded by renovation and adding modern facilities etc.
- Material Science Laboratory was established in Physics Department under the SARD -KSCSTE Project Scheme.
- Theory Lab was developed in Physics Department with the help of assistance extended by the Management.
- In collaboration with Amritha Viswa Vidyalayam, Kollam, Amrita Virtual Lab Facility was created by the college, acting as a nodal centre for virtual laboratory for science students.
- Department of Zoology has constituted the “Centre for Research on Aquatic Resources” under the coordination of Dr. G. Nagendra Prabhu. The Centre emerged from the output created from a project on the innovative recycling of aquatic weeds. Dr. Prabhu won the prestigious FLAIR award from the Higher Education Department of Government of Kerala for this project.

3.4. Research Publications and Awards

3.4.1. Highlight the major research achievements of the staff and students in terms of Patents obtained and filed (process and product), Original research contributing to product improvement, Research studies or surveys benefiting the community or improving the services, Research inputs contributing to new initiatives and social development etc.

a. Patents obtained and filed (process and product).

- A new process for the production of androgaphilides from medicinal plants, Dr. P. R. Unnikrishna Pillai, Associate Professor, Department of Botany. Patent has been filed by the College under the Indian Patent Act in 2011.

b. Original research contributing to product improvement.

- The products developed at the Centre for Research on Aquatic Resources are on the verge of entering the market.

c. Research studies or surveys benefiting the community or improving the services

- The PG students of Economics Department have conducted survey on loan taken by farmers in the Kuttanadu region in 2016 for Reserve Bank of India.
- Planning Forum has conducted a socio-economic survey with the participation of students.

d. Research inputs contributing to new initiatives and social development

- Being an area full of backwaters, the aquatic weeds cause severe hardships for farmers, fishermen, tourism operators etc. The Centre for Research on Aquatic Resources, under the Department of Zoology, has carried out research and developed a process for the recycling of these weeds and the products are on the verge of entering the market.

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

Yes, a Research journal entitled "SANATANAM Academic Review" – has been finalized for the release of its inaugural issue (Vol. 1, No. 1, June-December, 2016) in December/January 2016. "SANATANAM Academic Review" publishes original, unpublished and scholarly research papers of high standard in any of its core areas: Social Science, Management, Science, Biotechnology, Language & Literature.

The Editorial Board consists of a Patron (Manager), Managing Editor (Principal), Chief Editor (Dr. Prabhakaran Nair V.R.) and editorial members from various subjects. Besides this, experts from different subjects, Vice-chancellors of various universities in Kerala etc. constitute the Advisory Board of the Journal.

The Research Journal proposed is currently under the process of title verification and registration by the Registrar of Newspapers on India (RNI), Ministry of Information and Broadcasting. The request has been submitted for title verification through the District Collector to Registrar of Newspapers on India (RNI), New Delhi for the approval of the name "SANATANAM Academic Review". Once the approval is granted by the Registrar of Newspapers on India (RNI) to use the proposed title, the journal will be registered with ISSN number. The inaugural issue is expected to be completed by the month of December 2016.

3.4.3 Give details of publications by the faculty and students:

a. Publication per faculty

Over the last 5 years an average of 2.46 publications per faculty (248/101) is recorded including books.

Table 3.10
Publications Per Faculty Including Books for the Last 5 Year Period.

Sl. No.	Faculty	Number of papers in					Total No. of Papers
		Type of Books		Peer reviewed journals		Proceedings	
		Book	Chapter in Book	International	National		
1	Dr. Bindu Nair	--	--	--	1	2	3
2	Radhika K.S	-	-	--	1	1	2
3	Dr. Tommy John	2	--	--	--	--	2
4	R. Indulal	--	1	--	--	--	1
5	Aswathy S	--	--	--	1	--	1
6	Karthika. R	--	--	--	1	1	2
7	Neetha Prasad	--	--	--	2	--	2
8	Krishnanand. A	--	--	--	--	1	1
9	Dr. Sindu Antherjanam D	--	--	--	2	1	3
10	Dr. Ajayakumar S.	--	3	--	--	--	3
11	Dr. Devi. K. Varma	--	1	--	2	--	3
12	Dr. Sajith kumar S	1	--	--	2	1	4
13	Dr. Narayanan K	--	--	--	1	--	1
14	Dr. J. Veena	--	--	--	3	--	3
15	Dr. Poornima R	--	--	--	2	--	2
16	Dr. R. Sreekumar	--	--	--	1	--	1
17	Dr. Bibin K Jose	--	--	1	2	--	3
18	Dr. V. G. Rajalekshmi	--	--	3	--	1	4
19	Dr. T.R. Sherly	--	--	1	2	--	3
20	Rakesh Chandran S.B	--	--	4	--	5	9

21	Dr. Sreekanth J Varma	--	1	8	--	11	20
22	Dr. Prema K.H	--	--	3	--	4	7
23	Dr. P Girija	--	--	6	--	--	6
24	Dr. Harikumar V.S	3	--	8	--	--	11
25	Dr. P.R. Unnikrishna Pillai	3	--	--	3	--	6
26	Dr. T. Sunil kumar	--	--	11	2	2	15
27	Dileep.C	3	--	8	--	1	12
28	Dr. Sreeranjini S	3	--	2	2	--	7
29	Dr. Nagendra G. Prabhu	3	--	1	--	1	5
30	Dr. S. Nataraja Iyer	--	--	--	2	--	2
31	Dr. (Major)R. Unnikrishnan	3	--	--	1	--	4
32	Dr. Assalatha	3	--	--	1	--	4
33	Dr. Jubily Navaprabha	3	1	4	10	10	28
34	Dr. T.R. Anil kumar	1	--	--	2	--	3
35	Prasanth S. Pai	--	1	--	3	2	6
36	Vineeth Chandra K.S.	1	--	--	1	--	2
37	Dr. Rajesh kumar S.	--	1	--	1	--	2
38	Dr. Jayakumar S	1	--	1	--	--	2
39	Dr. Ajith kumar M.P	1	--	--	8	--	9
40	Dr. Uma devi S	1	--	--	5	--	6
41	Dr. Maya B. Nair	--	--	--	1	--	1
42	Dr. Prabhakaran Nair V.R.	--	9	2	--	2	13
43	Lalitha R. Pillai	3	--	--	3	--	6
44	Dr. Ms. Binoj Kumar	1	--	--	--	--	1
45	Dr. V.N. Sanjai	1	--	--	--	--	1
46	Dr. Maya B. Nair	1	-	--	--	--	1
47	R. Geethakrishna Pai	1	--	--	--	--	1
48	Dr. A Subrahmanyam	2	--	--	--	--	2
49	Dr. L. Ushakumari	1	--	--	--	--	1
50	Dr. S.R. Rajesh	--	--	4	--	--	4
51	Dr. P.S. Parameswaran	--	--	1	1	--	2
52	Dr. Meera Janardhanan	--	--	2	1	--	3
53	Dr. Padmaja D. Namboothiri	--	--	--	2	--	2
	Total	42	18	70	72	46	248

b. Citation Index and Impact factor

The available impact factors of publications are shown in table 3.11

Table 3.11: Impact Factor of Publications by Faculty members and Citations

Sl. No.	Name of the Faculty	Department	No of Publications with Impact Factor	No. of Citations
1	Dr. Prema K.H	Chemistry	1	-
2	Dr. P Girija	Chemistry	3	1
3	Dr. C. Dileep	Botany	8	-
4	Dr. T. Sunil Kumar	Botany	11	-
5	Rakesh Chandran S.B	Physics	4	-
6	Dr. Rajesh S. R	Physics	4	-
7	Dr. Sreekanth J Varma	Physics	8	2
8	Dr. Sreeranjini S	Botany	4	-
9	Dr. D Meena Janardhanan	Zoology	3	-

Source: Personal Profiles.

c. *h*-index:

Table 3.12
***h* index of Faculty Members**

SI No	Name of the Faculty	Department	<i>h</i> - Index
1	Rakesh Chandran S.B	Physics	1.5
2	Dr. Rajesh S.R	Physics	5.7
3	Dr. Sreekanth J Varma	Physics	9.9

Source: Personal Profiles.

d. Books/Edited Books (with ISBN No.)/Chapters In Book/ Journal Articles/Papers in proceedings/ Popular publications by Faculty

Table 3.13
Books/Edited Books/Chapters in Books etc published by Faculty

ENGLISH				
Sl. No.	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1.	Dr. Tommy John	Kingdom War	Translation	Forthcoming
2.	Dr. Tommy John	Chorasaastram	Translation	DC Books (Forthcoming)
3.	R. Indulal	‘Red in Tooth and Claw: An Archaeology of Screen Violence’ in Art vis-à-vis Violence	Chapter in edited Book	University College, Mangalore. 2014
4.	R. Karthika	‘Re-tracking’ the Celluloid: History, Politics and Popular Culture in Films	An Academic Collection of Essays on Film Studies	PG Dept. of English, N.S.S College, Pandalam, 2014, ISBN 978-81-928481-0-5
MALAYALAM AND SANSKRIT				
Sl. No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1	Dr. Ajayakumar S	‘NET WORK’ (a Play)	Introductory chapter in an edited book	Mukhachithram publications-2013
2	Dr. Ajayakumar S	Introduction to novel Lanka	Introductory essay to edition of Novel	B Books, Ampalappuzha, 2014
3	Dr. Ajayakumar S	NEYTHAL	Chapter in a book	Dept.of Malayalam, St.Joseph’s College for women, Alappuzha 2014
5	Dr. Devi K. Varma	Kinchana Varthamanam	Literary study, Chapter in a book	ISBN:978-93-5174-529-7
6	Dr. Sajith Kumar	Padmarajan: Duranthakaamanakalil Gandharvan	Book	Mathrubhumi Books, 2012.
7	Dr. Sajith Kumar	Kuthiyottam	Book on folklore	Kerala Bhasha Institute, 2014.
MATHEMATICS & STATISTICS				
Sl.No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1	Lalitha .R. Pillai	Text book of Complementary Statistics for Semester	Text for Bsc students	Sai Publishers, Alappuzha 2012

		I&II,III&IV for KU, MG, CU, KNR Universities		onwards
2	Lalitha .R. Pillai	A Practical guide to Complementary Statistics	Text for Bsc students	Sai Publishers, Alappuzha. 2012
3	Lalitha .R. Pillai	Authored A Handbook of Engineering Statistics	Text book	Sai Publishers, Alappuzha. 2012
PHYSICS				
Sl. No.	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1	Dr. Sreekanth J Varma	Applied Spectroscopy and the Science of Nano materials	Chapter in Edited Book	Springer, Singapore, 2015, ISBN 978-981-287-241-8
BOTANY				
Sl. No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1.	Dr.P.R.Unnikrishna Pillai	In vitro andrographalide production from irradiated Andrographis sps.	Book	Lambert academic publishing. 2012 ISBN No. 978-3-8484-3272-1
2.	Dr.P.R.Unnikrishna Pillai	In vitro production of ephedrine through colchiploidy from Sida sps.	Book	Lambert academic publishing 2012 ISBN No. 978-3-8465-8862-5
3	Dr.P.R.Unnikrishna Pillai	Induced mutation on plants by laser and other mutagens	Book	Lambert academic publishing 2012. ISBN No. 978-38473-29992
4	Dr. M.S.Binojkumar	Flora of India vol.23	Book	Botanical Survey of India 2012. ISBN NO.81-8177-049-8
5	Dr.C. Dileep	Rhizosphere Fluorescent Pseudomonas – A New Perspective	Book	Lambert academic publishing 2012 ISBN:978-3-8484-4604-9
6.	Dr.C. Dileep	Plant Protection –An Integrated Approach	Book	Lambert academic publishing 2012 ISBN:978-3-659-10527-2
7.	Dr. V.N.Sanjai	Flora of India vol.23	Book	Botanical Survey of India. 2012. ISBN NO: 81-8177-049-8
ZOOLOGY				
Sl. No.	Author	Title of the Book	Type of the book*	Publisher, Place & Year, ISBN No.
1	G. Nagendra Prabhu and R. Suresh Chandra Kurup	Bacterial cellulase production under solid state fermentation – Eichhornia crassipes as substrate.	Co-authored Book	Lambert Academic Publishers, Germany 2012, ISBN 978-3-8473-3760-7
2	Suresh P. V and G. Nagendra Prabhu	Valorization of seafood processing by-products by biological methods.	Book	CRC-Taylor Press, USA. 2012, pp. 685-736;
3	Dr. Maya B. Nair	Chordata	Text book	Manjusha Publications, Kozhikode.

4	C. Snishamol, S. Jayadev, R. Suresh Chandra Kurup and G. Nagendra Prabhu	Backwater tourism in Kerala with special reference to Alappuzha district – major threats and remedies	Co-Authored Book	Sonali Publications, New Delhi 2011, pp 97-111: ISBN 978-81-8411-370-1
ECONOMICS				
Sl. No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1	Dr. S. Rajesh Kumar	Economic Planning in India, The Indian Economy Since 1991, Economic Reforms and Economic Performance	Article in edited Book	Pearson Education, New Delhi, 2 nd Edition
2	Dr. Prabhakaran Nair V.R	Financing Structure and Growth: A Study of Firms in the Indian Private Corporate Sector in Pradeep Agrawal (ed.), Reviving Growth in India”,	Chapter in Edited Book	Cambridge University Press, New Delhi, India, 2015
3	Dr. Prabhakaran Nair V.R	Dynamics of Resource Mobilisation and Investment in the Indian Private Corporate Sector in Binu Kumar. B.J (ed.), Indian Economic Development: Bottlenecks and Solutions,	Chapter in Edited Book	Post Graduate Department of Economics, NSS Hindu College, Chengannassery, Kerala.
4	Dr. Prabhakaran Nair V.R	Growth of Small-Scale Industries with reference to Post-Reform period: trends, Issues and Concerns, in Prakash B.A (ed.), Indian Economy since 1991: Economic Reforms and Economic Performance	Chapter in Edited Book	Pearson Education, Dorling Kindersley (India) Pvt. Ltd., India. 2012.
5	Dr. Prabhakaran Nair V.R	External Sector Reforms in India in Prakash B.A (ed.), Indian Economy Since 1991: Economic Reforms and Economic Performance	Chapter in Edited Book	Pearson Education, Dorling Kindersley (India) Pvt. Ltd., India. 2012.
6	Dr. Prabhakaran Nair V.R	Monetary and Credit Policy Reforms in India in Prakash B.A (ed.), Indian Economy since 1991: Economic Reforms and Economic Performance	Chapter in Edited Book	Pearson Education, Dorling Kindersley (India) Pvt. Ltd., India. 2012.
HISTORY AND POLITICAL SCIENCE				
Sl. No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1	Dr. S.Jeyakumar	Contributed a Chapter – Industrialization and Urbanization in the Colonial City of Chennai (1871-1947)	Chapter in Edited Book	Meena Publication New Delhi 2016.
2	Dr. MP. Ajith Kumar	Vedic India – A History	Research/Reference work	Gyan Books, New Delhi, 2012
3	Dr. S. Umadevi	Water Pollution- A Challenge to Right to Environment in Kuttanad, Kerala	Chapter in Edited Book	ISBN 9788178359793, 2013

COMMERCE				
Sl. No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1.	Dr. Jubily Navaprabha	Marketing Management	Co-authored Book	Chand Books, 2015, Thiruvananthapuram
2.	Dr. Jubily Navaprabha	Gender Economics- A collection of selected papers	Chapter in Book	PG Dept. Of Commerce, Panampilly Memorial, Govt.College,Chalakkudy, 2015 – ISBN -978-93-81888-75-9
3.	Dr. Jubily Navaprabha	Banking Theory And Practice	Co-authored Book	Chand Books, 2015, Thiruvananthapuram
4.	Dr. Jubily Navaprabha	Recent Trends in Corporate Governance	Co-authored Book	P.G Dept. of Commerce & Research Centre, Sanatana Dharma College, Alappuzha. 2015,October ISBN-978-93-5254-0181-1
5.	Dr. R. Unnikrishnan	Management Information System,	Text Book	Kalyani Publishers, NewDelhi,2016
6	Dr. R. Unnikrishnan	Cadets Guide	Text Book	Text Book for NCC cadets for “B” and “C” Certificate examination
7	Dr. R. Unnikrishnan	E – Business & Cyber law	Text Book	National Publications 2016
8	K.R. Assalatha	Management Information System,	Text Book	Kalyani Publishers , NewDelhi,2016
.9	K.R. Assalatha	Cadets Guide	Text Book	Text Book for NCC cadets for “B” and “C” certificate examination
10	K.R. Assalatha	E – Business & Cyber law	Text Book	National Publications 2016
11	Anilkumar	Financial accounting	Text Book	Lily Publications Changanassery
12	Vineeth Chandra K.S.	Trends and Issues in MICE tourism	Chapter in Book	Sonaly Publications, NewDelhi, 2011, ISBN: 978-81-8411-370-9
13	Vineeth Chandra K.S.	Role of KSFE Ltd. Financial Empowerment in Rural Areas	Co- Authored Book	Soanly Publications, New Delhi, 2014, ISBN No. 978-81-8411-497-3
14	Vineeth Chandra K.S.	Forensic Accounting and Corporate Governance	Chapter in Book	PG Dept of Commerce and Research Centre, SD College, Alappuzha, ISBN No. 978-93-5254-018-1
15	Prasanth S. Pai	E – Auction: With reference to Indian Tea Industry	Chapter in the Book titled Rural E-Commerce in India	Govt. Arts College publication, Trivandrum,2012, ISBN – 978-93-5104-594-6
16	Shri. R. GeethakrishnaPai	Income Tax Law & Practice; VAT –Concepts & Practice	Book	Lilly Publishing House Changanassery (2015)

17	Dr. A. Subramaniyan	Corporate Regulation and Governance	Book	Thankom Publication Alappuzha2012
18	Dr. A. Subramaniyan	Principles of Management	Book	Thankom Publication Alappuzha2012
19	Dr. L Usha Kumari	Financial Inclusion and Inclusive Growth.	Edited Book	Reference Press, New Delhi, 2012,

Table 3.14
Details of Journal Articles by Faculty

ENGLISH				
Sl. No	Article Title	Author/ Co-authors	Journal Title	Details
1.	Dr.Bindu Nair	Early Tribal Society and the Ecological Paradigm	Critical Encounter:A Journal of Literary Studies	Vol.1, Issue1, Jun 2015, 47-60. ISSN 24522083
2.	Radhika K.S	Re-Presentations of Environment in Travel Writings: A Study of Dalrymples’s Nine Lives	Pursuits	Vol 9, 2011
3.	Karthika R	The Polemics of Power Transmission: A Study on the Cultural Hybridization in Indian Cartoons	The Hamlet Review: A peer reviewed bi-annual e-journal	ISBN:2395- 1923 Vol-1 Issue -1 March 2015
4.	Neetha Prasad	Nation Finding its Space in the Narrative Discourses of the Region:A Re-reading of Uroob’s Sundarikalum Sundaranmarum and S.K Pottekatt’s Oru Desathinte Katha	The Hamlet Review :A peer reviewed bi-annual e-journal	ISBN: 2395-1923 Vol-1, Issue -1 March 2015
5.	Neetha Prasad	Insane Ramblings of a Mind (poem)	Tipton Poetry Journal	Issue 26, 2014
6.	Aswathy. S	“Bandurga – Byaghradevi folk legends in Sundarbans”	The Quarterly journal of the Mythic Society.	Vol. 106 Issue No. 1, January – March 2015, Page Nos 51 - 54
7.	Aswathy. S	O. V. Vijayan’s Madhuram Gayathi as an Apocalyptic Narrative	Malayalam Literary Survey	Vol.35 Issue.4 Feb,2016
8.	Krishnanand. A	Blurring of the Borderlines: Reality, History and Mythology in Seamus Heaney’s “At a Potato Digging” and “The Tollund Man	Transculturation in Contemporary British and American Poetry	28-33 2013
9.	Krishnanand. A	“Life Express”(Poem)	Trivandrum Literary Supplement	June, 2015
MALAYALAM				
Sl. No.	Article Title	Journal details	Name of the Author	
1	Kadhanapparampile belitharakal	Vijnanakairali, March 2011	Dr. Sajith Kumar S.	
2	Kaalam Midikkunna Kavithamapinikal	Keli, May 2015	Dr. Sajith kumar S.	

3	Gita & Management	Govt. Sanskrit college, Thiruvananthapuram 2012 .	Dr. Narayanan K.
4	A Comparative Study of Literature and Paintings in Kerala	IIAS Journal , 2012 Shimla	Dr. Sindu Antherjanam
5	Riddles Raised by Athi	IIAS Journal,2014 Shimla	Dr. Sindu Antherjanam

HINDI

Sl. No.	Article Title	Journal details	Name of the Author
1	Makhanlal Chaturvedi Ki Rashtreeyatha ka Vidhrohi Chehara	Sangrathan by Hindi Vidyapeeth, Trivandrum, Kerala, August 2010 Volume 2 Page-46-48	Dr.Veena.J
2	Hindi Sahitya ki Swachanthavadi Kavya Dhara par Angresi ki Romanticism ka Prabhav	Sangrathan by Hindi Vidyapeeth, Trivandrum, Kerala, Sept. 2012 Volume 3 Page-16-18	Dr.Veena.J
3	Visthapan Ki Samasya-Adujeevitham ke vishesh sandarbh mem.	Jawahar Publications, Madhura, 2011, ISBN -978-81-811-290-3 , Page No. 43,	Dr. Veena J
4	Habib Tanvir Ki Natya Krithiyom Meim Bharatheeyata ki Khoj	Anusheelan, CUSAT, Jan.2012 Page – 223-225	Dr.Poornima
5	Nirmal Varma Ki Yudhavirodhi Chethana, Ve Din Aur Cheedom Par Chandni Ke Vishesh Sandarbh Meim	Sangrathan by Hindi Vidyapeeth, Trivandrum, Kerala, Nov.2011 Page – 23 - 25	Dr. Poornima

MATHEMATICS and STATISTICS

Sl No	Article Title	Journal Deatils/ year/ISSN	Author & Co Authors
1	Fuzzy P- Spaces and Fuzzy K-spaces	Bulletin of Kerala Mathematical Association 2011, Vol 8 , No 1 [133-138]. ISSN 0973-2721.	Dr. R. Sreekumar.
2	A model for finding frequent patterns from transactional database	Bulletin of Kerala Mathematical Association.	V.G.Rajalekshmi
3	Non-homogeneous Poisson Model for Mining Frequency of an Item from Data Stream	Technology operation Management Publishing ISSN 0974-8091	Dr. V. G. Rajaleksmi
4	Equality of Domination and Transversal Numbers in Hypergraphs	Discrete Applied, Mathematics 161,pp 1859-1867,161,2013	Dr. Bibin.K. Jose
5	Some New Classes of Open Distance Pattern Uniform graphs	International Journal of Combinatorics, Vol. 2013, Article ID 863439, 7	Dr.Bibin.K Jose
6	Graph Products of Open Distance Pattern Uniform graphs	Gen. Math. Notes Vol.18, No. 2, pp. 67-76.	Dr. Bibin.K Jose

PHYSICS

Sl No	Article Title	Journal Title	Author & Co Authors	Citations/ Impact factor
1	Synthesis and optical studies of nano Ceriummolybdophosphate	AIP Conf. Proc.	Dr. T.R. Sherly	--
2	Optical and dielectric studies of Zn doped cerium nano composite	Nano Science and Nano Technology 8(4), 138-147, 2014		

3	Optical and electrical studies of Cerium mixed oxides	AIP Conf. Proc.		
4	SEP events and wake region lunar dust charging with grain radii	Advances in space research, Elsevier, (Communicated, ASR-S-16-00258)	Sri. Rakesh Chandran S.B	2.25
5	Knee behaviour in latitude profile of geomagnetically induced currents	Space weather, AGU (Communicated)		3.5
6	Transition of accretion flow from Keplerian phase to advective phase as dynamical system	Monthly notices of royal astronomical society, 452,3346-3356, 2015		5.105
7	Plasma electron temperature variability in lunar surface potentials and in electric field under average solar wind conditions.	Advances in space research, Elsevier, 51, 1622,2013		2.25
8	Transition of accretion flow from Keplerian phase to advective phase as a dynamical system	Monthly notices of royal astronomical society, 452,3346-3356, 2015	Dr. Rajesh S R	5.105
9	Time variability of viscosity parameter in differentially rotating disc	New Astronomy, 30, 38-45,2014		1.844
10	SEP events and wake region lunar dust charging with grain radii	Advances in space research, Elsevier, (Communicated, ASR-S-16-00258)		2.25
11	Weakly nonlinear stability of hydrodynamic accretion disc	Monthly notices of royal astronomical society, 414, 691-701, 2011		5.105
12	Impressive electromagnetic shielding effects exhibited by highly ordered, micrometer thick polyaniline films	Applied Physics Letters 108, 154101, (2016)	Dr. Sreekanth J Varma	3.569
13	Exceptionally crystalline and conducting acid doped polyaniline films by level surface assisted solution casting approach	Applied Physics Letters 108, 161901, (2016)		3.569
14	Semiconducting Thienylene - Biphenylenevinylene Hybrid Polymers: Synthesis, Characterization and Application Prospects in Polymer LEDs	Dyes and Pigments 126, 303, (2016)		3.966
15	Polyaniline/graphene hybrid film as an effective broadband electromagnetic shield	RSC Advances 5, 5917, (2015)		3.84, Citations: 9
16	Enhanced photoluminescence in transparent thin films of polyaniline-zinc oxide nanocomposite prepared from	Thin Solid Films 562, 84, (2014)		1.867 Citations: 4

	oleic acid modified zinc oxide nanoparticles			
17	Effect of solvents on the photoluminescence emission of a few novel, light emitting, segmented block copolymers and hybrid polymers	Optoelectronics Materials and Thin films, AIP Conf. Proc, 1576, 171-175, (2014)		NA
CHEMISTRY				
Sl No	Article Title	Journal Title year/issue no./volume/year	Author & Co Authors	No. of Citations and Impact factor
1	Micro structure and Magnetic Properties of NiFe ₂ O ₄ and γ -Fe ₂ O ₃ Nano Particles Synthesized by Sol-Gel Method ²⁷	ReynoJournal of Interdisciplinary Studies 2012, 149,ISSN -2277-7652	Dr.Prema K H	--
2	Micro structure and Magnetic Properties of NiFe ₂ O ₄ and γ -Fe ₂ O ₃ Nano Particles Synthesized by Sol-Gel Method ²⁷	ReynoJournal of Interdisciplinary Studies 2012, 149,ISSN -2277-7652	Dr.P.S Parameswaran	--
3	Bioremediation of waste water containing hazardous cadmium ion with ion imprinted interpenetrating polymer networks,	Advances in Environmental Chemistry, ,10 pp, 2014	Dr Girija P.	Citation 1
4	Design of copper ion imprinted polymers based on crosslinked 4-vinylpyridine,	J. Chemi. Pharma. Research 2015,7,2,910-916 ISSN 0975-7384	Dr Girija P	--
5	Thermal behavior of Pb(II) ion imprinted interpenetrating polymer networks	The Int J Sci and Technoledge 2015,3,5,ISSN 2321	Dr Girija P	--
6	Selective removal of transition metal ions from waste water by ion imprinting technology	Int. J. Chem Tech. Res. 2014, 6,2438-24455	Dr. Girija P	0.3
7	Sorption of trace amounts of Pb(II) ions on an ion imprinted interpenetrating polymer networks based on alginate acid and crosslinked polyacrylamide	Sep. Sci. Tech. 2014, ISSN 0149-6395,49,1053-1061	Dr Girija P	1.1
8	Biosorption of toxic zinc(II) ion from water using ion imprinted interpenetrating polymer networks	J. Chem. Chem. Eng., 2013, 7, 508-517	Dr. Girija P	--
9	Processability, Mechanical and Magnetic Studies on Natural Rubber-Ferrite Composites	International Journal of Chemical Studies 3, 15-22, 2015. ISSN – 2321-4902	Dr Prema KH	0.234
10	Processability, Mechanical and Magnetic Studies on Natural Rubber-Ferrite Composites	International Journal of Chemical Studies, 3, 15-22, 2015. ISSN – 2321- 4902	Dr P.S Parameswaran	--
11	Effect of Phenolic Moieties on the Properties of γ -Fe ₂ O ₃	Journal of the Academy of Chemistry Teachers	Dr Prema KH	--

	Nanoparticles	1, 7-14, 2015. ISSN 2395-6801		
12	Effect of Phenolic Moieties on the Properties of γ -Fe ₂ O ₃ Nanoparticles	Journal of the Academy of Chemistry Teachers 1, 7-14, 2015. ISSN 2395-6801	Dr P.S Parameswaran	--
BOTANY				
Sl No	Article Title	Journal Title	Author & Co-Authors	Citations/ Impact factor
1	Arbuscular mycorrhizal associations in sesame under low-input cropping systems	Archives of Agronomy and Soil Science. DOI: 10.1080/03650340.2014.932906. 2014	Dr.V.S. Harikumar	0.549
2	Removal of cadmium from sea-food effluent contaminated soil by indigenous biological adsorbants assessed with soil microbial biomass	Asian Journal of Water, Environment and Pollution 11: 69-74. 2014	Dr.V.S. Harikumar	--
3	Spectral response of root extracts of arbuscular mycorrhizal and non mycorrhizal rice	J. Mycol. Plant Pathol 41: 481-482, 2011	Dr.V.S. Harikumar	--
4	Arbuscular mycorrhizal fungi associated with common plants of Eritrea, northeast Africa	Applied Ecology and Environmental Research DOI:10.15666/aeer/1301_193203.2014	Dr.V.S. Harikumar	--
5	Infectivity of arbuscular mycorrhizal fungus <i>Glomus dimorphicum</i> in sesame after long-term incubation in different soil types in the absence of host plants under two levels of phosphorus availability	J. Indian Bot. Soc. 93: 264-268. 2014	Dr.V.S. Harikumar	--
6	Are there arbuscular mycorrhizal associations in carnivorous plants <i>Drosera burmanii</i> and <i>D. indica</i> .	Botanica Serbica 37: 13-19.2013	Dr.V.S. Harikumar	--
7	Arbuscular mycorrhizal associations and its influence on phenotypic and growth characters of sweet potato under varied soil availability	Tropical Agriculture (Trinidad) 89: 216-228. 2012.	Dr.V.S. Harikumar	--
8	Symbiotic response of sesame (<i>Sesamum indicum</i> L) to different indigenous arbuscular mycorrhizal fungi (AMF) from rice fallows of Kerala	Journal of Agricultural Technology 9: 1631-1640. 2011	Dr.V.S. Harikumar	--
9	Enumeration of some potential medicinal (polypetalae) in the district of Alappuzha(Kerala)-I	Journ.Econ.Taxon.Botany Vol.37(4)777-785, 2013	Dr.M.S. Binoj Kumar	--
10	Enumeration of some potential medicinal plants(Polypetale)in the District of Alapuzha(Kerala)-II	Journ.Econ.Taxon.Botany Vol.38(2)279-281 2014	Dr.M.S. Binoj Kumar	--
11	Notes on Eleuthrine bulbosa(Mill.)Urb.A fast naturalizing exotic bulb crop among the Ulladan Tribal Community in Kerala State.	Journal Of Economic and Taxonomic Botany Vol.38(2)279-281 2014	Dr.M.S. Binoj Kumar	--

12	A unique Ethnomedicinal oil prepared by Ulladan Tribal Community of Kerala State.	Journal Of Economic and Taxonomic Botany Vol.38(2) 355-358 2014	Dr.M.S. Binoj Kumar	--
13	Ethnobotanical Study of Ulladan Tribal Community in Alappuzha District,Kerala State	J. Econ. Taxon. Bot Vol39#1(2015)197-207	Dr.M.S. Binoj Kumar	--
14.	Two Ethnomedicinal oils prepared by Ulladan Tribal Community to cure Tooth ache	Journal of Economic and Taxonomic Botany Vol.38(2) 359-360 2014	Dr.M.S. Binoj Kumar	--
15	Ethnobotanical Study of Ulladan Tribal Community in Kollam District,Kerala State	Econ. Taxon. Bot Vol 391(2015)208-222	Dr.M.S. Binoj Kumar	--
16	"Invitro Studies on Callus Culture and Enhanced Andrographolide Production Using Sodium Azide In <i>Andrographis paniculata</i>	International Journal of Applied and Pure Science and Agriculture, Vol-06, No-02, Pages: 254 – 261, June 2016	Dr. P.R Unnikrishna Pillai	--
17	Enhanced production of Andrographolide through the effect of gamma irradiation on <i>Andrographis paniculata</i>	American Journal of Biopharmacology Biochemistry and Life Sciences, Vol-02, No-04, Pages: 01 – 08, April 2015	Dr. P.R Unnikrishna Pillai	--
18	Effect of amino acids, organic acids, sugars iron and pH on siderophore production of two antagonistic Fluorescent <i>Pseudomonas</i> strains TR and FR2 from the acidic paddy fields of Kerala.	Journal of Mycology and Plant Pathology, Vol.43.No.4, Pp 466-471, 2013	Dr.C. Dileep	1.0
19	Cyclo(D-Tyr-D-Phe) : A new antibacterial, anticancer, and antioxidant cyclic dipeptide from <i>Bacillus</i> sp .N strain associated with a rhabditid entomopathogenic nematode.	Journal of Peptide Science Vol.20 ,pp173-185, 2014	Dr.C.Dileep	2.1
20	Biocontrol of <i>Aspergillus</i> species on Peanut kernels by anti fungal Diketo piperazine producing <i>Bacillus cereus</i> associated with Entomopathogenic Nematode	PLOS ONE e106041 Volume 9 issue 8, August 2014	Dr.C.Dileep	3.8 Thomson-OCR Reuters
21	Three bioactive cyclic dipeptide from the <i>Bacillus</i> sp N strain associated with entomopathogenic nematode.	Peptides Vol .53,2014 pp.59-69	Dr.C. Dileep	3.8 Thomson Reuters
22	Purification and characterization of antifungal phenazines from a fluorescent <i>Pseudomonas</i> strain FPO4 against medically important fungi.	Journal of Medical Mycology 2014 (24) ,185-192	Dr.C. Dileep	2.1 Thomson Reuters
23	Antimycobacterial activity of crude extracts produced by <i>Bacillus</i> sp. associated with entomopathogenic nematode.	International Journal of Pharmacy and Pharmaceutical Sciences 6(9) 140-142, 2014	Dr.C. Dileep	1.54

24	Investigation of antifungal activity of stilbenes alone and in combination with fluconazole against <i>Candida albicans</i> .	International Journal of Pharmacy and Pharmaceutical Sciences. 6 (4); 304-307, 2014	Dr.C.Dileep	1.54
25	First Report of a Leaf Disease of Rambutan (<i>Nephelium lappaceum</i> L.) plant in India	J. Plant Development Sciences 5 (3) :285-286,2013	Dr.C.Dileep	0.75
26	Ethnobotanical Study of Ulladan Tribal Community in Alappuzha District, Kerala, India	J. Econ. Taxon. Bot. Vol39#1(2015)197-207 2015	P.K. Bindu	--
27	Ethnobotanical Study of Ulladan Tribal Community in Kollam	J. Econ. Taxon. Bot. 39(1) 208-222. 2015.	P.K. Bindu	--
28	Enumeration of some potential medicinal (polypetalae) in the district of Alappuzha(Kerala)-I	J..Econ.Taxon.Botany Vol.37(4)777-785, 2013	P. K. Bindu	--
29	Enumeration of some potential medicinal (polypetalae) in the district of Alappuzha(Kerala)-II	J. Econ.Taxon.Botany Vol.37(4):777-785, 2014	P.K. Bindu	--
30	Notes on <i>Eleutherine bulbosa</i> (Mill.) Urb. A fast naturalizing exotic bulb crop among the Ulladan Tribal Community in Kerala State	J. .Econ.Taxon.Botany Vol.38(2): 279-281 2014	P.K. Bindu	--
31	A unique Ethnomedicinal oil prepared by Ulladan Tribal Community of Kerala State.	J. Econ.Taxon.Botany Vol.38(2): 355-358 2014	P.K. Bindu	--
32	Two Ethnomedicinal oils prepared by Ulladan Tribal Community to cure Tooth ache	J. .Econ.Taxon.Botany Vol.38(2): 359-360 2014	P.K. Bindu	--
33	Evaluation of anti-genotoxicity of the leaf extracts of <i>Morinda citrifolia</i> Linn.	Plant Soil Environment	Dr.S. Sreeranjani	1.4
34	Production of anthraquinones from adventitious root derived callus and suspension cultures of <i>Morinda citrifolia</i> L. in response to auxins, cytokinins and sucrose levels.	Asian Journal of Plant Science and Research 3: 131-138 (2013)	Dr.S. Sreeranjani	0.5
35	Field Performance and genetic fidelity evaluation of Micropropagated <i>morinda citrifolia</i> .	Indian Journal of Biotechnology 13:121-130.(2014)	Dr.S. Sreeranjani	H Index 20
36	Optimising elicitors and precursors to enhance Alizarin and Purpurin production in adventitious roots of <i>Morinda citrifolia</i> Linn	Proceedings of the National Academy of Sciences India Section-B Biological Sciences. Springer	Dr.S. Sreeranjani	0.39
37	The Magical Relief of <i>Vitex negundo</i> L. Practiced by Ulladan Tribes in Alappuzha district of Kerala	J. Econ. Taxon. Bot. 54 (4): 940-942. 2011	Dr. T. Sunilkumar	2
38	Some Medicinal Plants of Verbenaceae used by Traditional Medical Practitioners of, Alappuzha District, Kerala State. India	J. Econ. Taxon. Bot 36 (2): 393-396, 2012.	Dr.T. Sunilkumar	2
39	<i>Verbena bonariensis</i> L. (Verbenaceae)- An addition to	Research Lines (2): 122-124. 2011	Dr.T. Sunilkumar	--

	Flora of Kerala			
40	Ethnobotanical investigation among the Ullada Tribes of Alappuzha District in Kerala State, India	J. Econ. Taxon. Bot. Vol .35 (3):449-454. 2011	Dr.T. Sunilkumar	2
41	Lippia alba (Mill.) N. E. Br (Verbenaceae) - An addition to Flowering Plants of Kerala.	Ind. J. Forestry. 35 (1): 105- 106. 2012	Dr.T. Sunilkumar	--
42	Clerodendrum cordatum D. Don (Verbenaceae) - An addition to flowering plants of Kerala	J. Econ. Taxon. Bot. No.(I)- pp 46-49. 2012	Dr.T. Sunilkumar	2
43	Some Sacred Plants Used by Namboodiri Brahmins for Worship and Medicine	Research Lines, Vol. IV, No. I-B pp 19-25. 2011	Dr.T. Sunilkumar	--
44	Premnas scandens Roxb. (Verbenaceae) – A New Distribution Record from South India	J. Econ. Taxon. Bot Vol.37.No. .PP 50-52. (2013)	Dr. T. Sunilkumar	2
45	Medicinal food to relieve after effect of snake bite problems, by Malapanicker in Kerala state, India	J. Econ. Taxon. Bot Vol. 37 No.3. (2013)	Dr.T. Sunilkumar	2
46	Critical notes on Premna coriacea var. villosa (C.B. Clarke) A. Rajendran & P. Daniel (Verbenaceae) after a lapse of 140 years from Kerala (Verbenaceae) after a lapse of 140 years from Kerala	J. Econ. Taxon. Bot, Volume 37 # 1 (2013) Page No.50 to 52	Dr.T. Sunilkumar	2
47	Study on ethnobotanical uses of some selected plants by malampandarams residing at Sabarimala forest Kerala	J. Econ. Taxon. Bot vol 38 # 3-4 (2015) Page No 622-633	Dr.T. Sunilkumar	2
48	A new species of the genus Premna L. (Lamiaceae) from Western Ghats of India	J. Econ. Taxon. Bot Vol 68 (2): 127-131.2014.	Dr.T. Sunilkumar	2,5
47	In vitro regeneration of Lippia alba (mill.) N.E. Br. An ethno botanically useful plant	International Journal of Bioassays 3(7): 3119-3121. 2014	Dr.T. Sunilkumar	2.5
49	Ic-ms analysis of rind and pulp of citrus limon (l.) burm. f. fruits	International Journal of Bioassays 3(12): 3594—3597. 2014	Dr.T. Sunilkumar	2.5

ZOOLOGY

Sl. No.	Article Title	Journal Title	Author & Co Authors	No. of Citations and Impact factor
1	Evaluation of the antioxidant potential of methanol extract of <i>Cyclea peltata</i> in DAL Model	Pharma Innovation, 2015 4(1)b 71-75	Dr. Meena Janardhanan	0.324
2	Efficacy of methanolic extract of <i>Cyclea peltata</i> as a potent anticancer equivalent	European journal of environmental ecology, 2015 2(2)65-71	Dr. Meena Janardhanan	1.2
3	Antitumor activity of methanolic	International journal	Dr. Meena	1.2

	extract of <i>Cyclea peltata</i>	of phytomedicine, 2015 7 (2) 185-192	Janardhanan	
4	Process parameters influencing tannase production by <i>Aspergillus niger</i> using mangrove (<i>Rhizophora Apiculata</i>) bark in solid substrate fermentation.	African Journal of Biotechnology	Tan Wee Yee, Nagendra G. Prabhu, Jain, K. and Darah Ibrahim	--
5	Glutathione antioxidant status of frozen buffalo (<i>Bubalis bubalis</i>) and chicken (<i>Gallus domesticus</i>) meat sample	Proceedings of National Symposium on Biosciences in the Genomic Era	Dr. Maya B. Nair	Forthcoming
6	Mushroom cultivation using aquatic weeds of Kerala	Proceedings of National Symposium on Emerging Trends in Biotechnology	G. Nagendra Prabhu & Anoop Kumar. V, Sreelakshmi. T. P, Azmi. T, Bindu. P, Unnikrishna Pillai. P. R	ISBN 978-93-80095-47-9, 2014, 166-176

ECONOMICS

SI No	Author & Co Authors	Article Title	Journal Title/ Details
1	Dr. Padmaja D. Namboodiri	Political Economy of Business Fluctuations: Contextualising the Indian Scenario	ISDA Journal : Vol.22 Jan-June 2012
2	Dr. Padmaja D. Namboodiri	Inter-Relation Between Sustainable Development, Gender and Environment: A Critical Appraisal.	ISDA Journal: Vol.23 Jan-March 2013
3	Dr. S. Rajesh Kumar	Distribution Channel dynamics of Indian Life insurance,	SS Research Journal Humanities & Business Studies ISSN2250-3900 Vol. VIII No2, Dec 2012.p53-64
4	Dr. Prabhakaran Nair V.R	Sources of Funds and Determinants of Capital Structure in the Indian Private Corporate Sector,	International Journal of Statistics and Finance, International science Press, 2012.
5	Dr. Prabhakaran Nair V.R	Financial Liberalization and Determinants of Investment: A Study of Indian Manufacturing Firms	MIBES Transactions, Vol. 5, Issue. 1, Spring 2011, Greece.

HISTORY AND POLITICAL SCIENCE

SI No	Author & Co Authors	Article Title	Journal Title/Details
1	Dr. S.Jeyakumar	Resistance against Domination: Upper Cloth Revolt in South Travancore	International Journal of Social Science and Humanities, Vol. I, Issue 1, pp. 32-38, March-Aug. 2014
2	Dr. M.P. Ajith Kumar	Women in Vedic Times',	Journal of Indian History, University of Kerala, December 2011
3	Dr. M.P. Ajith Kumar	'Cosmology in Ancient India'	Quarterly Journal of the Mythic Society December 2012.
4	Dr. M.P. Ajith Kumar	'Francis Xavier and Goa Inquisition'	Quarterly Journal of the Mythic Society. December 2013
5	Dr. M.P. Ajith Kumar	'Science and Swami Vivekananda',	Vivekanandanum Prabuddha Keralavum, Vivekananda Kendra, Kanyakumari, 2013.

6	Dr. M.P. Ajith Kumar	'Punnapra-Vayalar Revolt'	Quarterly Journal of the Mythic Society March 2014.
7	Dr. M.P. Ajith Kumar	Ideal of Kingship in Ancient India,	Journal of the Institute of Distance Education, University of Kerala, May 2014.
8	Dr. M.P. Ajith Kumar	Swami Vivekananda's Views on Cates and Hindu Unity,	Quarterly Journal of the Mythic Society. July-September, 2014
9	Dr. M.P. Ajith Kumar	Painting of Lepakshi-Kiratarjuniya Scene	Quarterly Journal of the Mythic Society.Oct- Dec, 2015
10	Dr. S.Uma devi	HumanRights Violations on Indigenous Groups;Kannur District –A Case Study	ISDA Journal 20(2&3)2011, Pp,139-148 ISSN0971-2550
11	Dr. S.Uma devi	Manusmriti on Human rights and duties	Bhavan's Journal, Bharatiya Vidya bhavan Vol.58 No.3 Sept.15th 2011
12	Dr. S.Uma devi	Modern Democratic values in Indian Political Philosophy-Manu ,Kautilya and Swami Vivekananda-an Overview	Indian Journal of Political science IPSA, Vol.LXXVI,No.2:April-June,2015
13	Dr. S.Uma devi	BhaviBharatam-Vivekananda Darsanangalilude	Vijnanakairali- Kerala Bhasha Insitute Nov.5-2013, Vol.44,L.11
14	Dr. S.Uma devi	Humanism in Indian Philosophy-Contribution of Swami vivekananda and Deendayal Upadhyaya-an analysis	Indian Journal of Political science IPSA, Vol.LXXVI,No.3 July-Sept. 2015

COMMERCE

SI No	Article Title	Author/Co-authors	Journal Title/Details	Year
1	Dr. S. Nataraja Iyer	Need for selective privatization in central public sector undertaking	COMMERCE AND BUSINESS RESEARCHER	5 (1&2) 64-75 2012
2	Dr. S. Nataraja Iyer	Impact of efficiency measures in central public sector undertaking	SOUTHERN ECONOMIST	51 (22) 31-35 2013
3	Dr. Jubily Navaprabha	Swot analysis of Women Coir worker's SHGs in Alappuzha	Indian Commerce Bulletin	Vol.11, no2, June 2011 ISSN0972-6187
4	Dr. Jubily Navaprabha	Mental Health status of Women Coir workers in Alappuzha	REYNO	Vol.2, issue 1, Jan.2013 ISSN2277-7652
5	Dr. Jubily Navaprabha	Reasons for the in-migrant workers in Kerala	Indian Commerce Bulletin	Vol.13, no-1&11, Dec.2013 ISSN0972-6187
6	Dr. Jubily Navaprabha	Planning Tools for Promoting Managerial Abilities in Social Marketing to Improve Public Outcomes	Management Innovator	Vol.7, No1, Jan 2014 ISSN0974-6749
7	Dr. Jubily Navaprabha	Women Entrepreneurship: A venture for self employment in Alappuzha	REYNO	Vol.3, Issue 1, Jan.2014 ISSN2277-7652
8	Dr. Jubily Navaprabha	Economic conditions of in-migrant workers in Kerala-special reference to Alappuzha District	Management Researcher	Vol.20, no.4, April-June 2014 ISSN2230-8431
9	Dr. Jubily	MSMEs Women	Indian Commerce	Vol. XVI: No. 1 & 2

	Navaprabha	Entrepreneurs-Some Problems.	Bulletin	Dec:2014 ISSN0972-6187
10	Dr. Jubily Navaprabha	HRM practices in ITes - BPO industry in Kerala-Issues & Challenges	International journal of Management	Vol.3, no.1, Jan2015 -ISSN2321-6700
11	Dr. Jubily Navaprabha	An Empirical Analysis on Floating Malls	International Journal of Business & Administration Research Review Online-ISSN2347-	Vol.1, no8,Dec-Feb.2015 ISSN2348-0653.
12	Dr. Jubily Navaprabha	Women Entrepreneurs and Kerala Economy	International Journal of Business & Administration Research Review	Vol.1, no10, April -June.2015 ISSN2348-0653.Online-ISSN2347-856X.
13	Dr. Jubily Navaprabha	Capital Structure and its Impact on Financial Performance of Steel industry	International Journal of Management	Vol.6, No. 6,June 2015 ISSN0976-6502.Online-ISSN0976-6510.
14	Dr. Jubily Navaprabha	Mobile Triveni Stores in Kerala- Customers' Perspective	Management Researcher	Vol.21, no.4, April-June 2015, ISSN2230-8431
15	Dr. Jubily Navaprabha	Level of Customer satisfaction in Retailing FMCGs	Journal of Management	Vol. 1, No.1,Jan-June 2015, ISSN 2395-0293
16	Dr. Jubily Navaprabha	Islamic Finance and Financial Inclusion: Measuring use of and demand for Formal Financial Services among Muslim adults in India	Research Journal of MES College, Idukki, Nedumkandam	Vol.XII. No.12 Jan 2015, ISSN0976-2523
17	Dr. R. Unnikrishnan	"India's Balance of Payment Position –An evaluation" :	Management Researcher	Vol.XXI No.2 Oct-Dec 2014.
18	Dr. Assalatha	"India's Balance of Payment Position –An evaluation" :	Management Researcher.	Vol.XXI No.2 Oct-Dec 2014.
19	Dr. T.R. Anil Kumar	Tourism-A window to the prospect of Hotel industry in Kerala	Management Researcher	Vol.XX No 4, 79-83 2014
20	Dr. T.R. Anil Kumar	Development of Tourism in Kerala	Yojana Malayalam	Vol.43 NO.1 63-66 2014
21	Sri. Prasanth S. Pai	Problems and Prospects of Tea Industry in Kerala	Institute of Management Development and Research Publication Trivandrum	Vol.18; No. 3; pages 12 to 15; year – 2012
22	Sri. Prasanth S. Pai	Importance of FIIs in the Indian Stock Market: A study on S&P Sensex & Nifty	Southern Economist Bangalore	Vol.52;No.3; pages 39 to 44; year-2013
23	Sri. Prasanth S. Pai	Ethical Practices and Indian Tea Industry	Southern Economist Bangalore	Vol.51;No.23; pages 41 to 44; year – 2013
24	Sri. Vineeth Chandra K.S	An Analysis of Tourists' Satisfaction on E- Tourism	Commerce and business Researcher	Vol 5. Issue 3&4 July 1- December 31, 2012 ISSN No. 0976-4097

Table. 3.15
Papers in Conference Proceedings by Faculty

BOTANY				
Sl. No	Name	Title of the Article	Name of the Proceedings	Page Nos. & year, ISSN No.,
1.	Dr. C. Dileep	Suppression Properties of Two Pseudomonas strains Isolated from Paddy fields of Kuttanad, Kerala	Proceedings of. Mycol Plant Pathol.	Vol-43, No-1, Page: 115. 2013. Print ISSN:0971-9393 e ISSN:0975-4180
1.	Dr.T. Sunilkumar	Degradation of Herb – Biodiversity in Kerala by National Rural Employment Guarantee Scheme.	est. SreeNarayana College ,Punalur Kollam, Kerala. P-51	P-51. 2012
2.	Dr.T. Sunilkumar	Magical relief by some members of <i>Verbenaceae</i> family used by Ullada Tribes of Kerala State	. Absrtact Published in the proceedings of XX Annual conference of Indian Association for Angiosperm Taxonomy	pp182-183 2012
ECONOMICS				
Sl. No.	Author & Co Authors	Article Title	Proceeding Details	
1	Dr. Prabhakaran Nair V.R	Financial structure and its Determinants in the post reform period: Case of Indian Firms	International Conference Proceedings, 6th International Business and Social Sciences Research Conference 3 – 4 January, 2013, Dubai, UAE, 2013.	
2	Dr. Prabhakaran Nair V.R	Does financial liberalization reduce credit constraints: A study of firms in the Indian private corporate sector”	International Conference Proceedings, Published by Budapest Tech Keleti Károly Faculty of Economics, Budapest, Hungary. pp. 147-160, Dec. 2009	

Table. 3.16
Popular Publications by Faculty

Sl. No.	Name of the faculty	Article title	Publication details
ENGLISH			
1.	Dr.Bindu Nair	Foreign to the Foibles of an Indian Language	The Hindu dated 23/2/2016
MALAYALAM			
1	Dr. S. Ajayakumar	Karumadikkuttan	ORA Journal 13, Nov -2013
2	Dr. S. Ajayakumar	Malayalaswathwam Neridunna VelluviLikal	ORA Journal 18, Oct – 2014
3	Dr. S. Ajayakumar	Mannum Manushyanum Mani Kottiya Kavitha	RED SALUTE (Desabhimani Special Edition) 13, Feb -2015
4.	Dr. Sindu Antherjanam. D	Nagakkalagalile Nadakeeyatha	News Track Mgazine 2011 July
5.	Dr. Sindu Antherjanam. D	Kathakaliyum Chithrakalayum	UGC Seminar Souvenir, Christian College, Chengannur 2011, July
6	Dr. Devi K. Varma	Kootiyattathinte Thamizhormmakal	Bhavana, Souvenir, Kerala Samajam, Chennai. August 2015

7	Dr. S. Sajith Kumar	Penmanasinte Pamparachuzhikal	Kalakaumudi Weekly	15 th May 2015
8	Dr. S.Sajith Kumar	Charitramaye Lola	Kalakaumudi Weekly	24 th Dec2015
ZOOLOGY				
Sl. No.	Name of the faculty	Article title	Publication details	Year
1	Dr. G. Nagendra Prabhu	“Vellathil Koyyam”	Malayala Manorama Newspaper, All editions	11 th August 2014
2	Dr. G. Nagendra Prabhu	“Vellathilumaakam Krishi”	Mathrubhumi Daily, “Karshakarangam” All editions	13 th December 2014
HISTORY AND POLITICAL SCIENCE				
Sl. No.	Name of the faculty	Article title	Publication details	Year
1	Dr. M.P. Ajithkumar	‘Secret of Existence’,	The Sunday Pioneer, Delhi	29 December 2013
2	Dr. M.P. Ajithkumar	‘India’s Religion of Humanity’,	The Pioneer, Delhi	15 August 2014.
3	Dr. M.P. Ajithkumar	Putrid mix of politics and academics	The Pioneer, Delhi	29 July 2014
4	Dr. M.P. Ajithkumar	SNDP’s Hindu Identity – Fully in line with the Principles of the Guru	The New Indian Express Kochi	18 November 2015
5	Dr. M.P. Ajithkumar	Narisankalpam narendrabharathathil (Malayalam)	Kesari, Kozhikode	17 March 2013
6	Dr. M.P. Ajithkumar	Ten Communist Treacheries	www.haindavakeralam.com	5 November 2015
7	Dr. M.P. Ajithkumar	Indian art and Aesthetics	www.haindavakeralam.com	28 April 2014
8	Dr. M.P. Ajithkumar	Hindu Cosmology	www.haindavakeralam.com	8 July 2012
9	Dr. M.P. Ajithkumar	Darsanam kavithayayal	Kesari, Kozhikode	30 October 2015
10	Dr. M.P. Ajithkumar	Mahavispotanattinte darsanam (Malayalam)	Kesari, Kozhikode	24 April 2011
11	Dr. M.P. Ajithkumar	Kshetradhvamsanathinte putiya atavukal (Mal.)	Kesari, Kozhikode	1 August 2014
12	Dr. M.P. Ajithkumar	Haindavasamajaththinoru mochanamantram (Mal.)	Kesari, Kozhikode	3 January 2014
13	Dr. M.P. Ajithkumar	Gandhiji entukontu vintum kollappetunnu(Malayalam)	Kesari, Kozhikode	10 October 2014
14	Dr. M.P. Ajithkumar	Indian Culture and Integral Humanism	www.haindavakeralam.com	8. April 2015
15	Dr. S.Umadevi	“Gitaye enthukondu deseeyagrandhamakkikooda”?	Janmabhumi (Daily)	Jan.8,2015
16	Dr. S.Umadevi	“Bharatiya Srtituam,Swami Vivekananda darsanangalil”	Kshetra Shakti (Mal) Magazine	May- June, June- July, Vol -5, Issue-5,6
17	Dr. S.Umadevi	‘Swami Vivekanada to Youth’	Smritipath- College NCC diamond jubilee souvenir	2014-2015

18	Dr. S.Umadevi	'Women in Indian Culture'	Silver Jubilee souvenir , Kerala Brahmana sabha	2015
19	Dr. S.Umadevi	'Integral Vision for Inclusive Growth'	Organiser (National Weekly)	Vol.67 no.16, Oct. 18,2015
20	Dr. S.Umadevi	'Self-regulatory discipline in the Economy'	Organiser(National Weekly)	Vol.67 No.17 Oct. 25,2015
21	Dr. S.Umadevi	'We have Lost the Foresight '	Organiser(National Weekly)	Vol. 67 No.18 Nov.1,2015
22	Dr. S.Umadevi	'Dharma of society'	Organiser (National Weekly)	Vol. 67 No. 19 Nov.8 ,2015

3.4.4 Provide details (if any) of a) research awards received by the faculty b) recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally and c) Incentives given to faculty for receiving State, National and International recognitions for research contributions.

Table 3.17: Awards/Recognitions received by the Faculty

a) Awards received by the Faculty					
Sl. No.	Name of the Award/Patent	Agency, Place	Level	Purpose/Context	Year
1	Dr. T.R. Sherly	Dept. Of Physics S. N. College, Kollam	National	Second Best Research Paper Award	2011
2.	Dr. Sreeranjini S.	Mar Athanasius College, Kothamangalam, Kerala	National	Best oral presentation award U G C sponsored 'National Seminar on New Frontiers in Molecular Biology	2013
3	Dr. G. Nagendra Prabhu	SPARK Award, Mathrubhumi-SEED	State	Research Project Competition	2013
4	Dr. G. Nagendra Prabhu	P. A. Harris Foundation	Local	P. A. Harris Foundation Award-Contributions to Education	2014
5	Dr. G. Nagendra Prabhu	Society for Scientific Education & Research	National	Contributions in the area of Microbiology	2014
6	Prabhakaran Nair V.R	Research Award, University Grants Commission	National	Research Award in Economics	2012
7	Dr. G. Nagendra Prabhu	Rural Innovators Meet	State	Rural Innovator Award	2014
8	Dr. G. Nagendra Prabhu	Konkani Sahithya Acadmey, Kerala	State	Achiever's Award	2014
9	Dr. G. Nagendra Prabhu	Higher Education Dept. Govt of Kerala	State	FLAIR Award for Research.	2016
10	Dr. Sreekanth J. Varma	UGC New Delhi	International	Raman Fellowship	2016
b) Recognitions Received by the Faculty					
Sl. No.	Name of the Award/Patent	Agency, Place	Level	Purpose/Context	Year
1	Dr. Sindhu AntherjenamD.	Indian Institute of Advanced Study, Shimla UGC Inter University Centre	National	Associateship	2012 jully

2	Dr. Prabhakaran Nair V.R	Indian Institute of Advanced Study, Shimla UGC Inter University Centre	National	Associateship	2015-16
3	Dr. C. Dileep	GenBank Accession No KF500003 GenBank Accession No KF712283 GenBank Accession No KF712284 GenBank Accession No KR061875.1 GenBank Accession No KR061876.1	International	Identification of plant species (GenBank Accession-5 Nos)	2012
4	Dr. T. Sunil Kumar	Got accession number for the same from Gen bank _NCBI	International	First and only scientific work from India for submitting molecular Identification of the Plant Clerodendrum infortunatum In NCBI.	2014
5	Dr. Bibin K. Jose	Higher Education Dept. Govt of Kerala	State	Participation in FLAIR internship programme	2014
6	Dr. Rajesh S.R	IUCCA	State	Associateship	

c) Incentives Given to Faculty for Receiving Recognitions:

The award winners are felicitated at various levels ranging from the Department, Staff Club, Academic and Research Forum, IQAC and Management. Momentos and cash incentives are provided to motivate them for further research. The teachers are also provided with the eligible leave required for conducting research.

3.5 Consultancy

3.5.1. Give details of the systems and strategies for establishing institute-industry interface.

The college encourages various departments to establish institute-industry interface at department levels for providing on the job training/ internships for programmes, research collaborations and campus recruitments. The Management encourages forming Memorandum of Understanding (MoUs) with other institutes to sustain the cooperation on a formal basis. A large number of teachers have collaborations with various researchers in other institutes and universities to carry out collaborative research works. The College is now on the verge of operationalising the newly formed Research and Consultancy Service Cell (RCSC) which would act as the nodal agency for establishing institute-industry interface.

3.5.2. What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The college follows the policy of providing the expertise available for the benefit of all sections in the society. For this, the college and the management give unstinted support and freedom for the faculty to undertake consultancy services. Educational institutions are provided free services. At present, consultancy promotion in the college gathers vigor mainly at the individual level. However, recently we have created a Research and Consultancy Service Cell (RCSC) to make use of an enviable pool of experts in its ranks. The RCSC is expected to coordinate the consultancy services offered

by the college. The Head of the Institution allows Duty Leave for Govt./University approved programmes in connection with consultancy. The College publicizes the expertise available in various areas through the College Website, Newsletter, Handbook, Press Releases, Brochures, and Pamphlets and through word of mouth.

The college plans to utilize the modern mediums of communication to promote consultancy. The research in progress at the Centre for Research on Aquatic Resources in the Zoology department under the supervision of Dr. G. Nagendra Prabhu was featured in a short documentary film by an International Videographer Mr. Ryan Anderson, which could be accessed at - <http://vimeo.com/user29266142/backwaters>. The products developed by this centre were displayed during January 27-30, 2015 at the Science Exhibition of the 27th Kerala Science Congress, and in a State Level Agri-Horti Exhibition during December 23-31, 2013 & December 20-28, 2014 at S. D. V. School Grounds at Alleppey. The demonstration cum display drew large number of people and organizations and attracted the attention of the print and news media. In the coming years, as a part of publicizing the consultancy services, modern mediums like you tube and web based mediums will be used.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

- The experts are permitted to use the facilities available in the college for consultancy services.
- The college is generous in granting faculty members Duty Leave to undertake various consultancy services like Expert Opinion, Advisors to Government bodies etc.
- Consultancy services of faculty members are acknowledged and appreciated in staff meetings.
- Also major consultancy services offered by the faculty are published in the college news letter.
- The college encourages the faculty to offer their research expertise even outside the parent institution/university. Teachers are encouraged to utilize their expertise globally.
- A number of students from other institutions benefitted from the faculty of our college who rendered their service as guides.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

During the last four years, teachers provided consultancy services in several areas. Though some services were on a payment basis, majority of the services were provided free of cost.

Table 3.18:Major consultancy services provided by the Teachers

ENGLISH						
Sl. No.	Details of Project/activity	Type / Type of Consultancy	Period	Beneficiary	Paid/ Free	
1.	Dr. Leena P. Pai	Soft Skills Training	2013-16	Students	Paid	
2.	Sri. D. Ramachandran Nair	Soft Skills Training	2013-16	Students	Paid	
3.	Smt. Saritha	Soft Skills Training	2013-16	Students	Paid	
MALAYALAM AND SANSKRIT						
Sl. No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free

1	Translation work	Expert Opinion	Dr. Sindu Antherjanam	All Years During the period 2010-11 to 2015-2016	BSc. Nursing Students Govt. Medical College, Alapuzha	Free
2	Literary lecture	Resource Person	Dr. Ajaykumar	2012- onwards	State Library Council	Free
3	Childrens literature	Resource Person	Dr. Hari Kumar	2015 onwards	Chinmaya Vidyalaya Trust	free

HINDI

Sl. No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1.	Project	Advice	Dr. Shashikala Nampoothiri	2014-16	University students	Free

MATHEMATICS & STATISTICS

Sl.No	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1	M. Sc (Mathematics) project	Guidance	Dr. R. Sreekumar	2011-12 2012-13 2014-15 2015-16	P.G.Students, Distance Education, University of Kerala	Free
2	Project Guidance	Guidance	Dr.Bibin K. Jose	2014-15	IESER Students Integrated B.Tech	Free

PHYSICS

Sl. No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid (Rs.)/ Free
1	Architect	Expert opinion	Prof. N Sreekumar	2011-16	CTN Trades and Tour Pvt. Ltd	Free
2	Advisory Board member	Expert opinion		2013-16 2013-16	Kerala Inland vessels rules,2013	
3	Project Guidance	Expert opinion	Smt.E.G.Sudhamoni and Dr.Sreejith K Pisharady	2012-13	PG Students from other institutions	Paid, 16000/-
4	Project Guidance	Expert opinion	Smt.E.G.Sudhamoni	2013-14	PG Students from other institutions	Paid, 16000/-
5	Reviewer	Expert opinion	Sri. Rakesh Chandran S B		Astrophysics and Space Science Journal, Elsevier	Free
6	Project Guidance	Expert opinion	Dr. Sreejith K Pisharady	2014-15	PG Students from other institutions	Paid, 32000/-
7	Project Guidance	Expert opinion	Dr. T R Sherley and Sri. Rakesh Chandran.S.B	2015-16	PG Students from other institutions	Paid, 24000/-

CHEMISTRY						
Sl. No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1	Analysis of water samples from the nearby houses and consultancies on the basis of their request	Free Service	Dr.B.Ushakumari	2012-2014	Students from nearby areas and general public	Free
2	Awareness classes on food adulteration, for the public.	Free Service	Dr. S. Suryakumari	2013-2016	General public	Free
BOTANY						
Sl.No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1	Soil Nutrient evaluation for local farmers	Expert opinion	Dr. V.S. Harikumar	2011 onwards	Local Farmers	Free
2	Laboratory Services for Students from other institutions	Guidance	Dr. V.S. Harikumar	2015-16	Students	Free
3	Identification of plant species for Research Scholars of other institutions	Expert opinion	Dr. V.N. Sanjai	2014 and 2015	Research Scholars	Free
4	Laboratory services for School students	Guidance	Smt. P. K. Bindu	2015-16	School Students	Free
ZOOLOGY						
Sl. No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1	Scientific Advisor	Student projects at School and Polytechnics	Dr. G. Nagendra Prabhu	2000 onwards	Various School and Polytechnic students	Free
2	Exhibitions and Training on utilizing aquatic weeds	Opinion/ Expertise	Dr. G. Nagendra Prabhu	2013 onwards	General Public, Self Help Groups, NGOs	Govt. Sponsored and free
ECONOMICS						
Sl. No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1.	Training in statistical package for Social Sciences (SPSS)	Training	Dr. Prabhakaran Nair V.R	2011-till date	PG and Research scholars in various disciplines	Free

2.	Assistance in Questionnaire preparation, Sample Selection and data analysis	Expert Opinion	Dr. Prabhakaran Nair V.R	2011-till date	Research Scholars	Free
3	Consultant to Pallippad Panchayat	Expert Opinion	Dr. Rajeshkumar S.	2011-14	Panchayat	Free
COMMERCE						
Sl. No.	Details of Project/activity	Type / Type of Consultancy	Period	Beneficiary	Paid/ Free	
Dr. Jubily Navaprabha						
1	Evaluation of Projects of school students	Visiting Examiner	In Years 2013,14 & 2015	Sri Atmananda Memorial School, Aranmula	Free	
2	Classes to PLUS TWO students	Guidance and Counselling	2012	DB HSS, Thakazhy	Free	
3.	Interaction with Mothers of Students	Guidance and Counselling	2011	KP Memorial School, Muhamma	Free	
4.	Interaction with ITC Students	Talk on Entrepreneurship	2011 & 2012	Punnapra NSS Karayogam, ITC,	Free	
5.	Counseling Girl Students	Group counselling	2012	TKMM College, Nangiarkulam , Haripad	Free	
6.	Class on stress Management	Expertise Sharing	2014	S.N.College, Cherthala	Free	
7.	Classes to PLUS TWO students	Guidance and Counselling	2015	S.N.School, Kanichukulangara, Cherthala	Free	
8.	Observer for Medical & Engineering Entrance Exams	Expertise/Opinion	2014 & 2015	Different centres in Alappuzha	Free	
9.	Motivation speak	Invited talk	2015	National Integration Camp of NCC cadets, SNM. Higher Secondary School, Purakkad	Free	
10.	HIV/AIDS Counseling Programme	Expertise for Counselling	2011 Onwards	SAKSHAM-Global Fund To Fight Aids TB & Malaria	Free	
Sri. Krishnan. M						
11.	Classes for school students on future career	Career Guidance Advise	2015	Plus Two students, Thiruvambady High School	Free	
12.	Class on career opportunities	Career Guidance	2012, 2014, 2015	Sessions for NSS unit, SD College	Free	
Sri. R. Geethakrishna Pai						
13.	Tax Consultancy	Tax calculation	Till 2013	Staff of college	Free	
Dr. S. Nataraja Iyer						
14.	Job Consultancy	Advise	Till 2015	Students of College	Free	
Dr. T.R Anil Kumar						
15.	Tax Consultancy	Tax calculation	2013,2014,2015, 2016	Staff of college	Free	

PHYSICAL EDUCATION					
Sl. No.	Details of Project/ activity	Type / Type of Consultancy	Name of the Faculty	Beneficiary	Period
1	Free coaching classes	Coaching	Dr. P. Sunilkumar	Different schools under Mavelikkara educational district	2011 onwards
2	Free classes for officials of Kababdi	State level Training	Dr. P. Sunilkumar	Officials in Alappuzha, Ernakulam, Kasargode	2011-13
3	Class to officials associated with refereeing	National Level Training	Dr. P. Sunilkumar	Officials at international level	2011-13

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

Currently consultancy is provided at free of cost. However, in some cases teachers receive remuneration which is being independently utilised by them. We are yet to institutionalise the Research and Consultancy Service Centre (RCSC) in the college. Once the modalities are finalised by the RCSC, the income accrued on consultancy services will be meaningfully shared between the faculty involved and the institution.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighbourhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

A good number of forums/associations/initiatives like NSS, NCC, Bhoomithra Sena, Eco Club, Women's Studies Cell (WSC), Haritha Sanatanam, Annam Sanatanam etc are functioning in the college, all of which are aimed to mould good citizenship and service orientation through community network and student engagements. The following are some of the activities in this regard.

- By spreading the message "Annadanam Mahadanam" the College organized a project under the banner "Annam Sanatanam" in which students and teachers donate noon meal packets to the inmates of Medical college and General Hospital.
- The Drama Club organized street plays on themes of social and environmental relevance in the campus, as well as in Alleppey town to spread the message of environment conservation among the general public.
- Haritha Sanatanam was launched as an initiative to spread environmental consciousness and eco-friendly initiatives among the students, staff and other stakeholders.
- The Bhoomitrasena Club (Friends of the Earth) was formed and a practical programme of planting and maintaining trees, vegetable and herbal garden was chartered. The students were involved in all the activities of planting and nurturing the plants. This venture was a holistic experience for the students and they developed close bonds with nature, and learned to value the symbiotic relationship between man and earth.
- Tree planting ceremonies are held to commemorate important events like Gandhi Jayanthi. When the former Indian President Dr. APJ Abdul Kalam

passed away in 2015, the students of the English Department planted a tree in his memory.

- A unit of the National Environment Awareness Campaign (NEAC), a project that works towards environmentally sustainable development, and comes under the Ministry of Environment, Forests and Climate Change (MOEF) in the college is a participatory learning platform for students, teachers and the local public about environmental issues.
- A docu-fiction film titled “Uravu” was produced and screened. The film focused on traditional medicinal practices and environment conservation. It had a huge impact on the students with regard to awareness on bio diversity issues.
- The Centre for Aquatic Resources under the Zoology Department developed a research project on the innovative use of aquatic weeds in the back waters of Alappuzha.
- Every year, NSS volunteers construct roads, houses etc in various villages as part of the annual work camps. They also carry out the cleaning of drainages, beautification of campus and nearby streets, planting of trees, waste management etc. The World Disabled Day, World Aids Day, Hiroshima-Nagasaki Day, World Old Age Day, Palliative Care Day etc are celebrated by the volunteers of NSS.
- Communal Harmony Campaign, "Nirmala Bhavanam - Nirmala Nagaramam"- Clean Alappuzha project, Mass cleaning project, Railway station cleaning etc are undertaken by our students with great enthusiasm.
- NSS volunteers donate books, uniforms, umbrellas etc. to the students and have set up libraries in the neighboring schools.
- Under the auspices of the college union, staff and students raised money for the treatment of poor students and their parents.
- Members of the NCC and NSS organized blood group detection camps and blood donation camps and provided blood to the needy in different hospitals.
- Rallies, street plays, poster presentations, signature campaigns etc. were organised for creating public awareness on issues such as atrocities against women, ragging, use of plastics, environmental pollution, AIDS, generation gap etc. The students of the Drama Club performed a street play on environmental awareness, “Srishti Sthithi, Paristhithi” in 2013.

3.6.2 What is the Institutional mechanism to track students’ involvement in various social movements / activities which promote citizenship roles?

The college prospectus gives information on various Clubs and Forums functioning in the college and the students are encouraged to join at least one among them. The internal assessment system requires participation in at least one of the clubs/forums working in the college. Students are given orientation classes in which the necessity and importance of involving in various social movements and activities are emphasized. All coordinators of various clubs and forums are directed to address the students and motivate them to join in clubs/forums in which they are interested. All the programmes are undertaken with the involvement/ supervision of faculty members. It gives the facility to monitor the participation of the students in various social movements / activities which promote citizenship roles. Through the mentors/tutors of each class, the IQAC ensures that each student is an active member of NCC/NSS/WSC/Clubs/Forums functioning in the college. Attractive prizes are given by

PTA to students who excel in social service activities.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The College collects regular feedback from the students on the academic programmes and other activities conducted by various clubs/forums. Informal feedback is obtained from alumni, parents and the public. Being an institution that has been functioning for the last 70 years, the college always gets feedback from various stakeholders and suggestions are respected and improvements made accordingly. PTA meetings and class-wise 'Meet the Parents' programmes are regularly conducted and suggestions of parents are seriously considered for further improvement. The college also respects feedback from all who associate with different programmes.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

We carry out various extension and outreach programmes to extend the knowledge available in the institution for the benefit of a larger society. Programmes are planned and organised as at the college level, department level and outside the college. The extension and outreach programmes have a perceived impact on the character and attitude of the students. Many of the programmes were planned and organised by students themselves.

Table.3.19

Budgetary amount for extension and outreach programmes* for the last four years

Sl. No.	2012-13	2013-14	2014-15	2015-16
NCC	14, 904/-	3, 27710/-	2, 11, 915/-	2, 37, 090/-
NSS	1, 14228.50/-	97, 412/-	1, 21863/-	1, 31153/-
Others Clubs/Forums	89, 934/-	1, 00, 112/	1, 41,008/-	2, 12, 098/-

*Activities conducted by NCC, NSS and Clubs formally.

Extension Activities of NSS:

➤ Major Extension /Outreach Programmes undertaken by NSS and NCC every year include:

2011-12 Academic Year

- Independence Day (15-08-2011), Teacher's Day (05-09-2011) and Onam Festival (06-09-2011) were celebrated.
- NSS Day & Aswathy Memorial Quiz Competition (24-09-2011) was organized for higher secondary schools.
- Orientation Camp (from 01 to 02 October 2011) was conducted for the first year NSS Volunteers. It was held at the Jubilee Auditorium.
- Diabetes Day Rally (14-11-2011)
- Voluntary Blood Donation (18-11-2011).
- Vegetable Garden Maintaining (19-11-2011)
- World Aids Day (01-12-2011)
- World Disabled Day (03-12-2011)
- Blood Donation Camp (09-12-2011) in association with Red Ribbon Club
- Road Traffic Survey (13-12-2011)
- Banana plants were planted by volunteers in the campus on 19-12-2011.
- Legal Awareness class (25-01-2012) was conducted in association with the legal service authority and DLSA.

- Republic day Celebration (26-01-2012) and a cleaning drive in the college campus.
- Traffic Awareness Seminar (18-02-2012) was conducted on 18th February 2012.

2012-13 Academic Year

- Ayurvedic Sidha Camp (24.2.2012) in association with Santhigiri Health Care and Research Organization.
- Voluntary Blood Donation camp (08.03.2012)
- Seminar on Youth and Healthy Lifestyle (09.03.2012)
- Karunyathinte Kaineettam (20.3.2012): Money collection campaign for the benefit and medical care for children was organized.
- ARSH Programme (26.03.2012): Under the auspices of Teens club, National Rural Health Mission and Health Services Department and National Service Scheme, an ARSH programme was conducted at S.D.College NSS unit regarding the problems the teenagers face and how to overcome these problems.
- World Environmental Day (05.6.2012)
- Vayana Varacharanam (19.06.2012) (reading week)
- World Anti-Drug Day (26.06.2012)
- Garden Maintaining (09.07.2012):
- Pond Cleaning of Kalarkode Temple (04.8.2012)
- Hiroshima - Nagasaki Day Observed (09.8.2012)
- Participation in Nehru Trophy Boat Race as Volunteers (11.8.2012): Ten NSS Volunteers from S.D College NSS Unit participated voluntarily in the Nehru Trophy Boat Race on 11th August 2012 held at Punnamada Lake, Alappuzha.
- Independence Day Celebration (15.8.2012) and cleaning programme
- Teachers Day Celebration (05.9.2012):
- Garden Maintaining (13.9.2012) activities were undertaken.
- NSS Day Celebration and Aswathy Memorial Quiz Competition (24.9.2012) for school students was organized.
- Voluntary Blood Donation & Detection Camp (24.9.2012)
- Gandhi Jayanthi Celebration (02.10.2012) Rally
- Seminar on Gandhian views (26.10.2012)
- Kaikkumbilil Plastic (05.10.2012): A programme to degrade the plastic
- Voluntary Blood Donation Closing Ceremony (30.10.2012).
- Entrance Text Distribution (02.11.2012):
- Library Books Distribution (02.11.2012) for the LP students at N.S.H.S.S Nedumudi on 2nd November 2012.
- 150th Birth Anniversary of Swami Vivekananda (03.11.2012) was celebrated
- World Aids Day (01.12.2012): The programme was held at Bus stand and railway station of Alappuzha. Red badges were distributed to the people and AIDS day message was delivered.
- Garden Maintaining (08.12.2012).
- World Disabled Day (08.12.2012) was conducted under the auspices of Social Welfare Mission.
- Arjun Shekar Memorial Debate Competition (13.12.2012) was held under the auspices of S.D.College Maths Department.
- Communal Harmony Campaign - Stamp Sale (23.11.2012) programme under the auspices of National Foundation for Communal harmony.

- "Nirmala Bhavanam - Nirmala Nagaramam" - Clean Alappuzha (12.1.2013) cleaning programme was conducted under the guidance of Alappuzha Municipality on 12th January 2013 at 8am.
- Republic Day Celebration (26.1.2013) Republic day was celebrated and a cleaning programme was held in the college campus.
- Arani Gandhian Samoohika Padana Shibiram (26.01.2013 to 30.01.2013). A study camp on Gandhiji's teachings was organized in association with Gandhi Smaraka Grama Seva Kendra and Youth Welfare Board to make Gandhian thoughts reach the present generation.
- Nature Study (02.02.2013). A trip was organized to children's village, Aluva, under the leadership of Programme officers, Dr. S. Ajaya Kumar and Dr. K.P. Ramachandran Pillai.
- Campaigning for Blood Donation (18.2.2013):
- Blood Donation (19.2.2013) Camp
- Garden Maintaining (02.03.2013)
- We shall overcome - Short Film: NSS Unit made a short film entitled as "We shall overcome". This film is directed by Amal Thomas and Camera handled by Anu Raj & Sai Ganesh. It tells about the Role of NSS in a society, duties of the members, after joining NSS, how they mould their personality and it gave a message to other volunteers also.

2013 -14 Academic Year

- World Environment Day (5 June 2013)
- World Blood Donors Day (14 June 2013).
- Anti-Ragging Campaign (17 June 2013) was conducted.
- Aiyappa Panicker Foundation Quiz Competition (19 July 2013).
- Hiroshima– Nagasaki Day Observation (7 August 2013)
- Coconut Tree Climbing Training (CTC) (2 September 2013).
- Tube Light Distribution (11 September 2013): Tube Lights were distributed to Vadackal T.K.M.M U.P School.
- Mass Cleaning Programme (2 October 2013).
- Palliative Care Campaign (7 October 2013).
- Philatelic Exhibition (9 October 2013).
- Food distribution (18 October 2013) at Vandanam Medical College Hospital, General Hospital, and Assisi Cancer Centre.
- Nature Camp at Silent Valley (27 – 29 November 2013)
- World AIDS Day (1/12/2013)
- Blood Donation Camp (5 December 2013)
- Yuva Jagratha Yathra (23-01-2014) as a part of Anti drug campaign
- Seminar on Legal Awareness (06-02-2014):
- KSBTC Mobile Blood Donation (11 Feb 2014)
- Manushi'13 – Women's Workshop (20 Feb 2014)
- Launching of National Youth Policy (25-02-2014)
- Introducing Voter's Machine (04-03-2014):
- NRHM Health Class (14-03-2014):
- Food Fest 2014 (22 March 2014):
- Election 2014- A Green Agenda.

- Sweep out Flex, Save Alleppey Campaign- NSS organized a campaign – Sweep out Flex, Save Alleppy Campaign against the uncontrolled flex usage in the society on National Voters Day, January 25.
- Aranmula Visit and Documentary Shoot (15-03-2014): S.D. College NSS unit which participated actively in various social issues conducted “Aaranmula Prakrithi Samrakshana Jagratha Yuvajana Sangamam” to create awareness among the youth about the environmental issues of Aranmula. Volunteers actively participated and made a documentary “The Naked Truth” projecting environmental issues, construction and industrial declaim of Aranmula Kannadi.

2014-15 Academic Year

- Environmental Day (05-06-2014) was celebrated
- Blood Donor’s Day (14-06-2014)
- Health Education Class (01-08-2014)
- College Library Cleaning (12-08-2014)
- Cancer Awareness Class (13-08-2014)
- Anti-Drug Awareness Programme (19-08-2014)
- Aids Awareness Class (22-08-2014)
- Blood Donation Camp (25-08-2014).
- Teacher’s Day Celebration (05-09-2014):
- NSS Day Celebration & Aswathy Memorial Quiz Competition (24-09-2014)
- National Blood Donation Day (01-10-2014)
- Alleppey Beach Cleaning Day (20-10-2014)
- Flash Mob (02-11-2014): The programme was arranged for collecting money for the treatment of our volunteer Kiran Kumar.
- Anti-Drug Awareness Programme (08-11-2014)
- Youth Day-Essay writing Competition (12-01-2015)
- National Youth Week (13-01-2015)
- Nature Walk (02-02-2015)
- Nature Camp (From 28-02-2015 to 02-03-2015)
- Medical Camp (15-03-2015)

2015-16 Academic Year

- Reading Day Quiz Competition (19-6-2015):
- World Yoga Day (21-6-2015).
- Anti-Drug Day Speech Competition (25-6-2015).
- Food Distribution (24-7-2015)
- Blood Donation as a Tribute to “A.P.J. Abdul Kalam” (30-7-2015):
- Independence Day Celebration (15-08-2015) and Sisu Sadhana Sandarshanam
- Quiz competition and Awareness campaign (19-08-2015)

Extension Activities by NCC Units

Activities of the NCC Unit during the period 2012-13

1. Environment Day was celebrated on 5th June.
2. On October 2nd Gandhi Jayanthi, as a part of social welfare activity, the unit organized the Old Age Visit in which about 120 cadets participated. They cleaned

the old age home premises, served lunch to the inmates and the day ended up with a small cultural programme .

3. A Blood donation and detection camp was held in November. A large number of cadets donated blood and blood group records were maintained and donors were supplied on service basis to the needy people from nearby hospitals during emergencies.

Activities of the NCC Unit during the period 2013-14

1. Continuing our legacy forward, Senior Under Officer **Jerin.K.George** and Junior Under Officer Anil Kumar participated in the Republic Day parade held at New Delhi and brought glory to the unit and the college.
2. Both the Boys and Girls contingent participated in the RD and ID parade competition held at the Police Recreation Ground, Alappuzha.
3. On October 2nd Gandhi Jayanthi, Clean Campus Campaign was organized
4. A blood donation and detection camp was organized in the college on NCC day in November.
5. On December 1st “World Aid’s Day”, an awareness motor cycle rally was organized from the college to the SDV School in Alleppey town.
6. A ten day “National Integration Camp” (NIC) was hosted in the college in December.

Activities of the Unit during 2014-15

1. 3 cadets of our unit Senior Under Officers Arun Nath, Sivaprasad and Vivek participated in the Republic Day parade In New Delhi and ArunNath was the Parade Contingent Commander.
2. Both the boys and girls contingent participated in the RD and ID parade competition held at the recreation ground, Alleppey.
3. On October 2nd, Gandhi Jayanthi Day, our cadets whole heartedly participated in the ‘*Swach Bharath Campaign*’ proposed by the Government of India.
4. Cadet Arun Nath received the prestigious “*Best Cadet*” award and the ‘*Chief Minister’s scholarship*’ during this year.

Major activities of the unit during 2015-16

1. Cadet Nanditha Dev represented the state in the glorious Republic Day Parade held in New Delhi.
2. Both the girls and boys contingent participated in the Republic Day and Independence Day parade held at the Police recreation Ground, Alleppey.
3. A Career Guidance class was organized on January 17th which was led by Sri Aneesh Rajan IAS, the Deputy Director, Central Excise Intelligence.
4. On March 7th a nature camp was conducted whereby our cadets were taken to ‘*Paniyeli Poru*’ which was a memorable trip.
5. To mark the beginning of the 60th anniversary of the NCC unit, a tree was planted in front of the NCC office by the NCC alumni and “Capt. K. K. Sankaran Namboothiri Memorial Debate” was conducted on the topic “Moral Policing and its significance”.
6. “Major Rajasekharan Nair Memorial” talk was conducted in March in association with the NCC alumni on the topic “*Unity and Discipline*” which was led by the former Kollam Group Commander Col. Ravi Nair.
7. The Diamond Jubilee of the NCC Unit was celebrated on March 22 in a glorious manner. The function was presided by respected Ambalappuaha MLA Sri. G.

- Sudhakaran and was inaugurated by honourable Home Minister Sri Ramesh Chennithala. An NCC Souvenir named “Smrithi Path” was published.
8. The “International Yoga Day” was celebrated on June 21st with great vigor and a 5 Day yoga class was organized by the NCC unit which was led by the yogacharyas from Sivananda Yoga Center, Alappuzha.
 9. On October 1st a one day training session was organized by the NCC unit on Emergency Medical Services. The class was led by Mr. Rajasekharan Nair and his assistant trainers from the “Institute of Emergency Medical Services” (IEMS), Kottayam.
 10. On October 2nd, Gandhi Jayanthi Day, our cadets cleaned the campus and planted trees, thus developing a sense of social responsibility.
 11. On October 15th The NCC Unit organized the “Abdul Kalam Memorial Lecture” which was handled by the eminent scientist Dr. R.S. Rajeev, the Head of the Polymers and Chemicals Department, VSSC.
 12. The Girls contingent participated in the Republic Day Parade competition on 26th January 2016 at recreation ground, Alappuzha and bagged the first prize and the Ever Rolling Trophy.
 13. A four day self defence training workshop called WSTD (Women Self Defence Technique) under “NIRBHAYA” programme was conducted in the college from 1st March to 4th March in association with NSS and Women’s Cell. The training was provided by the lady civil police officers from Punnapra South Police Station.
 14. On 8th March, an “ORGAN DONATION AWARENESS CAMPAIGN” was organized.

Activities by Women’s Studies Cell (WSC)

- The WSC conducts regular awareness classes on personality development, legal awareness, psychological health of young adults, counseling sessions and motivational lectures, talks on gender discrimination and women’s empowerment.
- The State Women’s Commission conducted their flagship programme “Kalalaya Jyothi” in the college in July 2014 to create awareness among youth about gender discrimination, sexual exploitation and violence, and cyber crime.
- A Cancer Awareness Programme was conducted in collaboration with Ernakulam Cancer Society, on Feb 11, 2016. Dr.V.P. Gangadharan, well known Oncologist was the main consultant.
- WSC organized a silent protest rally in December 2012, to raise the conscience of students and society about the Delhi rape incident and to raise awareness about violence against women.
- Empowered women are invited for International Women’s Day celebrations to inspire the girl students to realize their full potential. This year the WSC honoured the visually challenged vocal artist, Vaikom Vijayalakshmi for her achievements.
- A four day training programme in self defence was organised for girl students by the WSC, NSS and NCC in collaboration with the Police Department as part of women’s empowerment.

Activities by Departments/ other Clubs/ Forums

A wide range of extension activities are undertaken by various Departments/ other Clubs/Forums such as Agri-Horticultural exhibitions, awareness programmes on scientific and traditional agricultural practices, awareness programmes on organ donation, Food Fests and sales, soap and paper bag Manufacturing workshop, services in old age homes, cultural and literary seminars, book exhibitions and sales, reading sessions,

lectures, competitions, practical programme of planting and maintaining trees, vegetable and herbal garden, distribution of meals to poor people, water quality analysis, soil analysis, talks, seminars etc.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

The college has one NSS Unit and two NCC Units working for girls and boys separately. The college encourages participation of the students in NSS and NCC. The participation in NCC and NSS are ensured through the following ways.

- College conducts Induction/orientation/awareness programme at the beginning of the academic year for the new entrants.
- The senior volunteers of NSS and NCC are directed to motivate through class-wise awareness campaign on the activities of NCC and NSS.
- The class tutors-in-charge also will motivate students to make them join the students in NSS, NCC or other interested clubs undertaken by senior volunteers and teachers-in-charge
- The activities of NSS and NCC are supported by the college by advancing funds from PTA, management and other sources for the timely and smooth functioning.
- The member students are given grace marks as per the norms of the government and the University.
- Necessary infrastructure and human support services are provided as per the request forwarded by the NCC and NSS coordinators in coordinating different events in the college.
- Only permanent faculties are appointed as the Coordinators of NSS, NCC, etc. and they are eligible for honorarium and relaxation in workload as per govt. rules.
- Duty leave is sanctioned for students and faculty participating in the extension activities organized by approved agencies.
- Financial assistance towards food and refreshments, travel expenses, insurance, etc. are provided to the students.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society.

- SD College, NSS unit conducted a medical survey on 10 March, 2015 in Gandinagar Residence Association at Pazhaveedu as part of the medical camp to be conducted later in Pazhaveedu Girls UP School. NSS volunteers went to each house in the residence and collected the details about the diseases and medicines that they have and informed them about the free medical camp.
- Classes are provided to students from weaker section by the Career Guidance and Placement Cell (CGPC) in the college.
- Classes on various scholarship schemes were conducted among freshers every year.
- Kuttanad Flood Relief Project (4 July 2013): The unexpected floods in Kuttanad area was a challenge to everyone. National Service Scheme Unit of S.D College, which is known for its compassionate face, reacted promptly and undertook the noble mission of providing flood relief to the victims. NSS Volunteers went to the Flood affected area, and joined in the relief programme. They distributed essential relief materials like food, clothes and

medicines, and collected money through a Fund raising campaign conducted in the college campus and among the public.

- Library Donation (12-08-2015): On August 12th, SD College conducted Library Donation at L.P. School Kalarcode.
- Library Books Distribution (02.11.2012): In order to encourage the reading habit in students, College distributed library books for the L.P. students at N.S.H.S.S, Nedumudi on 2nd November 2012.
- The Women's Studies Cell arranged a visit to the crèche functioning in the campus on Children's Day.
- A four day training programme in self defence techniques was also held for girl students in collaboration with the Police Department under the Nirbhaya Programme.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

Various extension and outreach programmes create social concern, commitment and empathy in the minds of the students. These programmes have their own academic significance also. For example, by conducting socio-economic surveys, students also become familiar in the areas of data collection, interpretation, analysis and preparation of reports. The socio-economic surveys and acquaintance with the society help students become aware of the grass root level problems and issues of real social concern, which in turn will mould their character and attitude towards life. The NSS and NCC promote social awareness and commitment among students. The Women's Studies Cell conducts awareness classes on gender discrimination and women's empowerment. The Career Guidance and Placement Cell helps to improve overall personality development and proper soft skills acquisition to meet the challenges of modern job market and secure meaningful employment. Blood Donation and Organ Donation campaign and creation of willingness by teachers inculcates the noble value of saving lives through blood donation. The various clubs conduct lectures and activities to enhance the student's awareness of issue like environment, human rights, gender, health, etc.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities.

The extension and outreach programmes are organised by ensuring the participation of the local people in the area. Wherever possible, the organisation committee for the outreach activities ensures the participation of the stakeholders. The involvement of officials from panchayath, municipality, health department, police department, legal services, media, etc are ensured while conducting programmes outside the college. Many times, outreach activities are arranged in collaboration with Local Self Govts/ NGOs/Govt Departments etc. The extension activities are mostly inaugurated by political/religious and social leaders so that they will be implemented with their full involvement. Most of the programmes implemented by the NSS had the involvement of local people. The involvement of local people gives opportunity for the students to interact with society in relation to various social and economic issues.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

Various banks in the locality have been generous enough to financially supplement our outreach and extension activities. Besides, the college enjoys good support and co-operation with the Cooperative hospital, Alappuzha, and Arya Vaidysala. Dr.Krishnakumar of GG Clinic, Kalarcode, Alappuzha provides medical services to the students of the college. The NSS and NCC units of the college successfully conducts medical camps, blood donation etc. The Police Department is involved in the implementation of the anti-narcotic activities, self defence training programmes for women, anti-drug addiction programmes etc. The college commands wide support from the press and the media, at large.

- The Botany Department conducts Agri-Horticultural exhibitions every year in collaboration with the State Agricultural Dept and Agri-Horti Society, Alappuzha.
- College maintains a fish pond and vegetable garden with the support extended by the officials from KrishiBhavan.
- By spreading the message ‘Annadanam Mahadanam” the college organized a project in the banner ‘Annam Sanatanam’ in which students and teachers donate noon meal packets to various nearby hospitals including Medical College and General Hospital, to be supplied to the poor inpatients.
- We collaborate with the Employment Exchange, Alappuzha to conduct placement drives under the banner of CGPC.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

Table 3.20

Awards received by the institution for extension activities and/contributions to the social/community development

Sl. No.	Name of the Faculty	Award Agency	Level	Award Name	Year
1	Dr. S. Ajayakumar	University of Kerala	University	NSS Programme officer special award	2014
2	Dr. G. Nagendra Prabhu	FLAIR Award, Govt of Kerala	State	Award for Research on Recycling Aquatic Weeds	2016
3	Dr. G. Nagendra Prabhu.	Rural Innovators Meet	State	Rural Innovator Award	2014
4	Dr. G. Nagendra Prabhu.	Konkani Sahithya Acadmey, Kerala	State	Achiever’s Award	2014
5	NSS Unit, SD College	National Service Scheme(NSS), University of Kerala	University	Special award for the best performance.	2012-13
6	NSS Unit, SD College	National Service Scheme(NSS), University of Kerala	University	Special award for the best performance.	2013-14
7	NSS Unit, SD College	National Service Scheme(NSS), University of Kerala	University	Special award for the best performance.	2014-15
8	Sri. K.S. Vineeth Chandra	National service Scheme (NSS), University of Kerala	University	For the best NSS coordinator	2015
9	Sri. K.S. Vineeth Chandra	National service Scheme (NSS),	University	For the best NSS coordinator	2016

		University of Kerala			
10	Sri. Saroj Raj C.J	National service Scheme (NSS)University of Kerala	University	Award for the Best NSS Volunteer	2014
11	Sri. Akhil Dev S.	National service Scheme (NSS)University of Kerala	University	Award for the Best NSS Volunteer	2016
12	NSS Unit, SD College	National Service Scheme(NSS), University of Kerala	University	Award for the best NSS Unit	2016
13	Boys Contigent, NCC,SD College	NCC	State	First Prize in RD Parade.	2014
14	Boys Contigent, NCC, SD College Unit	NCC	State	First Prize in ID Parade.	2014
15	Mr. Arun Nath	NCC	State	The Best Cadet Award	2015
16	Mr. Arun Nath	NCC	State	Chief Minister's Scholarship for the best Cadet	2015
17	Arun Nath, SivaPrasad and Vivek	NCC	National	Selection for Republic Day Parade in New Delhi	2015
18	Arun Nath	NCC	National	Selection as Contigent Commander	2015
19	Boys Contigent, NCC, SD College	NCC	State	First Prize in RD Parade.	2015
20	Boys Contigent, NCC, SD College	NCC	State	First Prize in ID Parade.	2015
21	Girls Contigent, NCC, SD College	NCC	State	First Prize in ID Parade.	2015
22	Cadet Miss. Nanditha Dev	NCC	National	Selection for Republic Day Parade in New Delhi	2016
23	Cadet Miss. Nanditha Dev	NCC	National	Gold Medal for Classical Singing	2016
24	Girls Contigent, NCC, SD College	NCC	State	Everolling Trophy For Best Performance in ID Parade	2016

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities? Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

We encourage the faculty members to have collaboration in the area of research. The college provides necessary administrative and infrastructure facilities for carrying out the collaborative works. The major means of establishing such relationship are through alumni, research scholars, joint papers, joint projects, associate ship etc.

- Dr. Sindu Antherjanam D, Assistant Professor, Department of Malayalam was selected for Associateship at National Institute of Advanced Studies, Shimla.

- Dr. Rajesh S.R., Assistant Professor, Department of Physics was selected for Associateship at IUCCA.
- Dr. Prabhakaran Nair V. R, Assistant Professor, Department of Economics has carried out post doctoral studies at the Centre for Development Studies, Thiruvananthapuram under the Research Award conferred by University Grants Commission, New Delhi.
- Dr. Sreekanth J. Varma is carrying out research in the University of Florida under Raman Fellowship.
- Dr. Sreekumar R, Associate Professor, Dept. of Mathematics has research collaboration with Manonmanian Sundaram University, Tamil Nadu for research.
- Sri. Rakesh Chandran S.B., Assistant Professor, Department of Physics is associated with COSPAR-Committee on Space Research.
- Mr. Amalraj collaborates with IIT, Chennai for individual research work.
- Dr. Bibin K. Jose has published papers with Dr. S. Arumugam from 2008 onwards. He has also made research collaboration for paper publications with Dr. Zsolt Tuza, Hungary.
- Sri. Rakesh Chandran S.B was involved in Hybrid Solar Cell Research with University of Central Florida. He is also conducting polymer based devices with Naval Physical and Oceanographic Laboratory, Govt. of India (NPOL).
- Dr. Sanjai V.N, Assistant Professor, Department of Botany, coordinates a project with IIUCNRM, University Of Kerala.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

- The college has executed a MoU with KELTRON, Govt. of Kerala for offering training programmes in computer networking and software development.
- The college has entered into an MoU with the Department of Higher Education, Govt. of Kerala for offering skill development programmes under the ASAP. Under this programme, a number of students were selected as Skill Development Executives (SDE) in 2013-14, 2014-15 and 2015-16.
- The Department of Physical Education, in collaboration with the Sports Authority of India (SAI), provides facility for the students to participate in water sports like Kayaking, Canoeing, Rowing etc. This is a national level facility coming under the Special Area Games programme of the Govt. of India.
- We have mase collaborative arrangements with the following organizations such as, Indian Institute of Science, Bangalore; NIIST, Trivandrum; IISER, Trivandrum; Department of Applied Chemistry and Department of Physics, CUSAT Cochin; IIT, Kanpur; NIT, Calicut. Many of our research faculties and students are making use of facilities in many universities and research centres. The students were also taken to several institutions and places of national importance like the IIM Calicut, Kerala School of Mathematics, CWRDM, etc.
- MoU with Kerala Cricket Association: The college ground was developed in to a full-fledged cricket pitch and facilities for conducting first class matches by establishing collaborative arrangements with Kerala Cricket Association.
- MoU with Sukrtindra Oriental Research Institute (SORI): A Memorandum of Understanding has recently been signed on 29th March, 2016 with SORI to provide a conceptual framework of cooperation and to facilitate collaboration in

areas of mutual interest such as research in Sanskrit, Indology and related subjects, conduct of seminars, workshops, symposia, and publication of books and materials related to the aforesaid areas.

- Collaboration with National Institute of Inter-disciplinary Science and Technology (NIIST) Trivandrum. CSIR-NIIST is a National Research lab under CSIR (Govt. of India) engaged in R&D activities in different areas. Currently the Agro processing and natural product division is pursuing research in Kuttanad fields focussing mainly on crop improvement in collaboration with Phytobacteriology and Mycology division of department of Botany, Sanatana Dharma College, Alappuzha. We give support in maintaining the microbial culture and in logistics.
- Dr. C. Dileep of the P. G. and Research Department of Botany collaborates with RRL, Jorhat, for research in Microbiology. This has resulted in many international publications, gene bank submission and student training.

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

- The college has a tie up with Amritha Viswa Vidyalaya for facilitating the use of Virtual Lab. The Virtual Lab project is an initiative of the Ministry of Human Resource Development (MHRD) under the National Mission on Education through ICT (Information and Communication Technology). Amrita University is a part of the consortium of twelve institutions, which build virtual labs covering various disciplines in science and engineering. In our college, the Department of Chemistry is a nodal centre of Amrita University in realising this project. As a nodal centre the Department of Chemistry engages students to conduct lab experiments in computer stimulated environment.
- College has received financial assistance worth Rs. 1 crore under Department of Science and Technology (DST) – FIST programme. A common Instrumentation centre is being built under this assistance.
- The collaborations with external experts have led to the publication of more than many research papers in reputed national/international journals during the last 5 years.
- Many banks have started campus placement since 2012-13. This led to the establishment of Bank Test Coaching under the guidance of the Career Guidance and Placement Cell from 2013 onwards.

Table 3.2: Details of Students' Placement (In Number)

Name of the Organisation	Year	Students Applied	Students participated	Students Selected
South Indian Bank	2012-13	106	94	6
South Indian Bank	2013-14	125	105	7
Federal Bank	2013	110	94	4
SD Pharmacy Group Company	2013	15	0	
SD Pharmacy- Botanist	2013	3	1	1
WIPRO	2013	20	1	1
Sun Pharma	2013	3	0	0

HCL Pooled drive	2014-15	300	300	1
ICICI Bank at Kristu Jyothi Campus	2014-15			6
ICICI drive at SD College Campus	2014-15	35	35	11
Catholic Syrian Bank	2014-15	150	150	0
Placement Drive by 22 companies in association with employment exchange	May 2016	1300	1100	--

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

During the years 2011-16, various departments in the college organised Seminars, Workshops, Symposia, and Conferences etc. in which eminent scientists and experts participated. The summary details of Seminars are given in table 3.21.

Table 3.22

Details of national and international conferences/seminars organized by the college during the last four years.

MALAYALAM AND SANSKRIT			
Name	Position	Seminar/Conference	Date
Dr. P. Venugopal	Malayalam Lexicon Editor	Seminar- Kathakali Ragavum padavum	8/2/2011
Sri. Kureppuzha Sreekumar	Poet	Seminar - Eshtamudikayal	16/11/2011
Dr. Atheena Niranjan	Poet, Assistant Professor, N.S.S College, Cherthala	Seminar- Vylopalliyum Vayalarum Malayala kavithayil	16/11/2011
Sri. Thomas Jacob	Editorial Director, Malayala Manorama	Seminar- Pathralokam	27/07/2012
Sri. Jose Panachippuram	Associate Editor Malayalamanorama	Seminar- Ezhuthinte Kala	27/07/2012
Sree. Perumpadavam Sreedharan	Novelist, President of Kerala Sahitya Accademy	Seminar- Ramavarmathampuran Smaraka Prabhashanam	6/11/2012
Dr. T A Sudhakara Kurup	Principal, N S S College	Seminar- Keralapiravi Dinakhosham	1/11/2014
Dr. Aju K Narayanan	Asst. Prof. U C College, Aluva	Seminar- Folklore	7/11/2014
V.H. Dirar	Regional Co-ordinator, Kuttanad Heritage Study	Seminar-Kerala Culture	19/12/2014
Padmabhooshan Sri. Kaavalam Narayana Panicker	Dramatist, Critic	Seminar- Thampuran Anusmaranam	5/02/2015
Dr. Rajeev Kumaramkandath	Fellow, IAS, Simla	Seminar- Cultural Studies	6/02/2015
Prof. Ramaraja Varma	Sanskrit Writer and Former Principal, S D College	Seminar- Bharathaparyadanam	19/6/2015
Prof. Viswanathan Namboothiri	Associate Professor, Sanskrit Department, Baseliyas college, Kottayam	Seminar-Kalidas anum Reghuvamsavum	23/6/2015
Dr. Mariyamma J	H.O.D, English	Seminar-Pennidam	24/6/2015

Panjikkaran	Department, St. Gregorious College, Punnapra.	”Ezhuthinte Thantedam”	
Dr. Shaji Jacob	Associate Professor, Sree Sankara Sanskrit University, Regional Centre, Thuravoor.	Seminar- Dasthoveski	25/6/2015
Prof. Reghunathan Pillai	Associate Professor, Govt. Womens College, Thiruvananthapuram	Seminar-“Rajankanam” Kuttikrishna Mararu	26/6/2015
Dr. C.T. Francis	Associate Professor, Sanskrit Department, St. Thomas College Pala.	Seminar-Ramayana Vicharam	7/8/2015
Dr. K. M. Bharathan	Reader, Malayalam University, Thuravur	Seminar-Folklore	13/10/2015
Sri. Kalamandalam Ganesan	Performer, Kunjan Smarakam	Seminar-Thullal Aragum Ezhuthum	13/10/2015
Dr .K. S. Revikumar	Associate Professor, Dept. of Malayalam, N.S.S.College, Changanachery	Seminar-Nattarivum Mozhiyum”Patayani”	14/10/2015
Mr. Asokan	Photographer, Environmentalist	Seminar-“Pachapp” Green Docu-Fest	13/10/2015

HINDI

Name	Position	Name of Seminar/Conference	Date
Dr. N. Mohanan	Dean, Hindi Department, Cochin University	Seminar talk on Modernisation & Literature	14/01/2016
Dr. K. Vanaja	HOD, Hindi Department, Cochin University	Seminar talk on Contemporary & literature	14/01/2016

MATHEMATICS AND STATISTICS

Name	Position	Seminar	Funded By	Date
Prof.S. Kumaresan	Dean of Science, (Member of FIST,NBHM) Hyderabad University	National Seminar on Recent trends in Analysis, Topology and Its applications	UGC	March 18-20, 2015
Dr. Subrahmanian Moosath K. S	Professor, Indian Institute of Space Science and Technology, Trivandrum	National Seminar on Recent trends in Analysis, Topology and Its applications		March 18-20, 2015
Dr. G. Suresh Singh	Professor and Board of Studies Chairman (P.G), University of Kerala, Kariyavattom Thiruvananthapuram	National Seminar on Recent trends in Analysis, Topology and Its applications		March 18-20, 2015
Dr. J. Robert Victor Edward	Associate Professor, Scott Christian College, Nagercoil	National Seminar on Recent trends in Analysis, Topology		March 18-20, 2015

		and Its applications		
Dr. Vishnu Namboothiri K.	Assistant Professor, BJM Government College, Chavara	National Seminar on Recent trends in Analysis, Topology and Its applications		March 18-20, 2015
Dr. Paul Issac	Associate Professor, Bharath Matha College, Ernakulam & Kerala Mathematical Association, Secretary	National Seminar on Recent trends in Analysis, Topology and Its applications		March 18-20, 2015
Dr. K. Sandeep	TIFR, Bangalore and Shanti Swarup Bhadnagar Award winner 2015	Recent trends in Analysis, Topology and its applications	The Department of Science and Technology, Government of India, and Kerala State Council for Science Technology and Environment	December 2-4, 2015
DR. A.R. Rajan	Former HOD, Department of Mathematics, University of Kerala.	Recent trends in Analysis, Topology and its applications		December 2-4, 2015
Dr. A Sunny Kuriakose	Dean, FISAT, Angamaly Accademic Secretary, Kerala Mathematical Association	Recent trends in Analysis, Topology and its applications		December 2-4, 2015
Dr. K.P Naveenachandran	Associate Professor and Head (Maths), Govt. College, Chotoor.	Recent trends in Analysis, Topology and its applications		December 2-4, 2015

PHYSICS

Dr K.P. Sathesh	Retd. Principal, Brennan College, Thalassery	100th year of Bohr Atom Model', One day Seminar	KSCSTE (in association with APT, Kerala)	21/1/2015
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CHEMISTRY

Name	Position	Seminar	Funded By	Date of Visit
Dr. Edamana Prasad	Associate Professor, Dept of Chemistry, IIT Chennai	National seminar	UGC	16/10/2015
Dr. KG K Warriar	Chief scientist & CSIR emeritus scientist (Retd) ceramics consultant			
Dr. A Sreekanth	Associate professor, Dept of Chemistry, NIT, Trichy			

ECONOMICS

Name	Position	Seminar	Funded By	Date of Visit
Dr. Mary George	Member, Kerala State Public Expenditure Committee	National Seminar	UGC	28/10/2014
Dr. D. Narayana	Consultant, State Planning Board, Trivandrum			
Dr. R.A. Ramanathan	Emeritus professor, IIT, Mumbai			

COMMERCE			
Name	Position	Occasion/Purpose	Date
Dr. Kevin	Ex Pro VC, Kerala Uty.	UGC Sponsored National Seminar	25/10/2014
Dr. M.P. Subramanian	Ex VC, Mamgalore Uty.		
Shri. Salim	Regional Director, RBI		
Dr. P. Rajendran	VHNSN College Virudhanagar	UGC Sponsored National Seminar	26/10/2014
Smt. Monica	Faculty, Rajagiri College of Social Sciences		
C K Vijayappan	Dy.SP Crime Branch	UGC Sponsored National Seminar	10/10/2015 &11/10/2015
Radesh R Bhatt	ACA		
Jayan K	ACS		
Dr. Gopalakrishna Sharma	CMA		
Azad	ADM, Alappuzha		
R. Krishnan	ACA		

3.7.5 How many of the linkages/ collaborations have actually resulted in formal MoUs and agreements?

1. MoU with Kerala Cricket Association

A memorandum of understanding was signed between the Management and the Kerala Cricket Association for developing the college ground in to a full-fledged cricket pitch and facilities for conducting first class matches. The stadium now meets the National standards and is equipped for any match of the kind. A bowling machine, 3 practice pitches and facilities for net practice are available for the players. Other facilities like player's room, water tank, toilets and indoor-practice facility are also maintained well. All these facilities are open for the students and staff of the college.

2. MoU with Sukrtindra Oriental Research Institute (SORI), Ernakulam

A Memorandum of Understanding has recently been signed (on 29th March, 2016) with SORI to provide a conceptual framework of cooperation and to facilitate collaboration in areas of mutual interest such as research in Sanskrit, Indology and related subjects, conduct of seminars, workshops, symposia, and publication of books and materials related to the aforesaid areas. It envisages a meaningful and productive collaboration which would result in the production and dissemination of knowledge between the signatories.

3. MoU with KELTRON:

The college has executed a MoU with KELTRON, Govt. of Kerala for offering training programmes in computer networking and software development.

4. Collaboration with Department of Higher Education, Government of Kerala

The college has entered into a MoU with the Department of Higher Education, Govt. of Kerala for offering skill development programmes under the ASAP.

5. MoU with Phoenix Institute for Financial Training (Phoenix)

SD College has entered into a MoU with 'Phoenix' to undertake training as a

part of the Professional Financial Awareness Programme at the premises of SD College for a total duration of 54 hours for every batch of students undertaking the programme. This is meant to be an add-on course to deliver financial training primarily for U.K. Accounting and financial qualifications. The responsibility of ensuring the participation of students will be discharged by the PG and Research Department of Commerce, SD College.

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations

- The research level linkages/ collaborations are planned, established and implemented under the auspices of the Research Monitoring Cell functioning in the college.
- Experts who visit the college as part of collaborative research are provided free local hospitality.
- The college promotes department-level collaborations. Teachers in various departments have established collaborative research works with experts in reputed institutes.(see section 3.7.1).
- Necessary infrastructural facilities are provided to researchers to establish labs and fields under collaborative projects.
- Faculty members with good research potential are given study leave/duty leave in concurrence with Govt. policies for collaborative works.

3.7.7. Any other relevant information that the college wishes to add.

The College is slowly poised to play a major role in Research & Consultancy with the recent upgradation of infrastructure and new faculty with experience in advanced areas of Science & Technology. The recently constituted Research Consultancy and Service Cell (RCSC) is taking necessary steps in consultation with all the stake-holders to develop a comprehensive policy of Research, Consultancy and Extension.

CRITERION IV

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The college management is always aware of the increasing need for infrastructure to support the teaching and learning activities. The realisation of the pivotal role of infrastructure guides the college in its practice of updating the infrastructure to its maximum, within the availability of funds and there is an effective system in place for this.

College has a Planning Committee, chaired by the Principal, solely constituted for the purpose of allocating funds for infrastructural activities. It includes HODs of various departments. A coordinator is appointed to convene the meetings and execute the decisions taken by the Committee. At present, the coordinator is Dr. S. Rajesh Kumar, Associate Professor in Economics. The requirement of each department is assessed in relation to the availability of funds and accordingly the college undertakes its infrastructural creation, upgradation and maintenance. To meet the infrastructural quality standards and needs, the IQAC as well as the College Council proposes plans for infrastructure development to the Planning Committee chaired by the Principal. Depending on the nature of the construction, the Planning Committee recommends and presents the proposals before the Management for their concurrence. The management takes the final decision and in consultation with the Planning Committee the blueprint is drafted. The Management and the building committee supervise the construction activities. The purchase of equipments/machines/computers is monitored by the Purchasing Committee headed by the Principal and a Coordinator. The coordinator of the Purchasing Committee is Dr. C. Krishnakumar, Associate Professor of Chemistry. The college also avails of the support and participation of all the stakeholders such as PTA, industry, alumni and elected representatives in infrastructural undertakings. The Planning Committee and the IQAC of the college encourages and ensures the availability of funds from various sources like UGC, DST and other agencies to augment infrastructure and learning resources.

4.1.2 Detail the facilities available for:

- The College premises consist of 46 acres and include the following facilities for Curricular and co-curricular activities.

a. **Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.**

1) Class Rooms	58
2) Staff Rooms	12
3) Green Boards/whiteboards/Black Boards	In All Class Rooms
4) Rooms with Smart/Interactive Boards	05
5) LCD projectors	22
6) Computers with internet connectivity	147
7) Laptops	12

8) Seminar/conference Hall:

College Seminar Hall	1
Audio Visual hall	1

Audio Visual Hall in FIST Block	1
IQAC Mini Conference Hall	1
Mini Seminar halls in Departments: 5	
Physics	1
Chemistry	1
Economics	1
Commerce	1
Zoology	1
TOTAL:	09

9) Computer Labs:

Central Computing Centre	1
Small Computer Centre	1
Computer Lab in Library	1
Computer Lab in FIST (Common Instrumentation) Room	1
Department Mini Computer Labs	
Economics	1
Chemistry	1
TOTAL	06

10) Library

Full-fledged, automated OPAC library with:	
Books (Nos.)	56091
Journals/Periodicals (Nos.)	68
News papers	16
Journals under NLIST/ INFLIBNET	6000
CDs	150
Total No. of Softwares	4
Meant for Blinds	1

11) Language Lab: 1

English Language Lab
<ul style="list-style-type: none"> • 24 computers • 24 Headphones • Free Softwares provided • Video Cameras -2

12) Laboratories : 19

PHYSICSLABORATORIES -05
B.Sc. Physics Laboratory- 2 Nos. Well equipped lab with all facilities for experiments as per the revised syllabus comprising mechanics, properties of matter, thermal physics, electricity, magnetism, modern physics, electricity, electronics (digital and analog), etc. The lab has sufficient computers and also has facilities for carrying out students' project work.
M.Sc. Physics Laboratory- 1 No. Two sections, separately for advanced general physics and electronics. 2 computers with internet facilities.
Theoretical Physics Research Laboratory – 1 No. Four systems equipped with softwares to simulate many dynamical systems including solar wind interactions with planetary bodies and lunar surface charging.
Physics Material Science Research laboratory - 1 No. The research facilities were sanctioned by KSCSTE, Govt. of Kerala to enhance the research

facilities in the Dept. of Physics. The facilities include most of the basic instruments for materials synthesis, processing and characterization. It is possible to carry out research work in the fields of Materials Science, Optoelectronics, Organic Electronics and Nanoscience. The Procured facilities are

- Source meter (Keithley 2400)
- Digital Multimeter (Keithley 2001)
- Four-point and 2-point probe setups with temperature controllers (-50 to 150 0C)
- Muffle Furnace (1100 0C)
- Vacuum Oven (250 0C)
- Hot air Oven (150 0C)
- Bath sonicator
- Quartz Double distillation unit
- De-ionization Unit
- Ika Magnetic Stirrers with temp. controllers
- Rotary Vacuum pumps
- pH meter
- Table-top hydraulic pellet press
- Refrigerator
- 3 KVA UPS with 4 hrs backup

CHEMISTRY LABORATORIES -05

B.Sc. Chemistry Laboratory -02

Enough work space to accommodate 48 students at a time. Equipped with a fume cup board and all necessary instruments such as Conductometer, Potentiometer, Centrifuge Machines, pHmeter, Conductivity Cells, Vaccum Pump, Refrigerator, Electronic balance, Potentiometer, Water bath, Thermostat etc.

M.Sc. Chemistry Laboratory- 02

Equipped with Thermostat, Electronic balance, Magnetic Stirrer, Vaccum Pump, Colorimeter, Microwave oven, Abbe Refractometer etc.

Chemistry Research Laboratory/ Instrumentation Centre-01

Equipped with Muffle furnace, Electronic balance, Polarimeter, Spectrophotometer, pH meter, Conductivity Cells, Magnetic Stirrer, Vaccum Pump, Microwave oven, Colorimeter, Mechanical Shaker etc.

BOTANY LABORATORIES -05

UG Laboratory	1
PG Lab	2
Tissue Culture Laboratory	Laminar Flow (Make: Kemi 2 nos)

Research Laboratory

Well-equipped molecular biology lab with PCR, HPLC, Spectrophotometer. Cytogenetics lab with stereomicroscope and facilities for photomicrography. Fully equipped Tissue Culture Lab with air conditioned culture room, laminar flow chamber and shaker. Microbiology lab with BOD incubator. Herbarium with over 2000 specimens.

ZOOLOGY LABORATORIES -04

1. B.Sc. Lab

Compound Microscope-20, Simple Microscope - 15,
Hand Lens - 15, Micrometer-5, Haemoglobinometer -12,
Haemocytometer- 15, Sphygmomanometer-1

2. M.Sc.Lab

Compound Microscope-10; Simple Microscope – 15; Binocular Microscope- 1; Hand Lens – 15; Clinical Centrifuge -1; Micrometer-5; Camera Lucida- 1; Haemoglobinometer -12; Haemocytometer- 15; Sphygmomanometer-1; Flame photometer-1; Water bath-1; Wax bath-1; Centrifuge- 1; Calorie meter-1; pH meter-1; Kymograph/Cardiogram-1.

3. Instrumentation Room

Research Microscope -1, Video Microscope – 1, Laminar Air Flow-1, UV Spectrophotometer-2, Colorimeter-1, pH meter-1, Refrigerator-1, Bacteriological incubator-1, Hot air oven-2, Orbital shaker-1, Colony counter-1, Low temperature cabinet-1, Magnetic stirrer-, Water bath-1, Microtome-1, Heating mantle-2, Electrophoresis-3, Ultracentrifuge-1.

4. Research Lab

Ultra centrifuge(Cooling)-1, Cyclo mixer-1, Shaking incubator-1, Water bath -1, Electronic balance-1, Refrigerator-1, Bacteriological incubator-1, Autoclave-1, Compound microscope-1

13) Keltron Study Centre/Centre for Continuing Education Kerala

Separate Rooms are provided for conducting various IT and computer courses by KELTRON Govt of Kerala.

14) Reprographic facilities - 2

In Library: 1

In Cooperative Store: 1

15) Abdul Kalam Memorial Common Instrumentation Centre :

FIST (Fund for Improvement of S&T infrastructure in universities & higher educational institutions) is an initiative by the Department of Science and Technology, Govt. of India towards providing basic infrastructure, enabling facilities and environment for promoting R&D in new and emerging areas in Colleges and Universities all over the country. During 2014-15, the college qualified for funding from the DST under the FIST scheme and received Rs. 1 crore (maximum available funding for Level-0). In this funding, a sum of Rs.32 lakhs were allocated for teaching facilities/instruments, Rs.7 lakhs for networking and computational facilities, Rs.5 lakhs for e-learning room, Rs.5 lakhs for books, Rs.3 lakhs for maintenance and Rs.50 lakhs for research equipments. Licensed softwares like the Matlab, LabVIEW, Mathematica and Origin 2016 were purchased under this scheme and a high performance workstation with the capability of handling all the educational requirements of students /teachers / researchers in the college was installed.

16) Herbal garden (Medicinal plants)-Botanical garden

A grove of medicinal plants and a botanical garden are maintained with financial and technical support of the Kerala State Medicinal Plant Board and Kerala State Biodiversity Board. Both gardens are well maintained by the faculty, technical staff, and the students of the Botany Department.

17) Virtual lab facility :

Virtual Lab in collaboration with Amritha Deemed University

18) Fish pond and Vegetable Gardens are maintained by students**19) Co-operative Store**

Co-operative store provides text books and stationery at subsidized rate to students. Reprographic facility is also provided to students.

b. Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, public speaking, communication skills development, yoga, health and hygiene etc.

1. Auditorium

For facilitating co-curricular activities, three common auditoriums/seminar halls are available.

- The main auditorium can accommodate about 800 people.
- A fully air-conditioned audio-visual hall with a seating capacity of 75
- Golden Jubilee Auditorium with audio-visual facility in the main building with a seating capacity of 200

2. Career Guidance and Placement Cell (CGPC)

The Centre for Career Guidance and Placement helps and guides the students in selecting their career. CGPC functions in the library hall of Department of Commerce.

3. Major sports facilities in the College

For the promotion of sports and games, adequate infrastructure facilities have been provided with play grounds for athletics, cricket, football, basketball etc. Sports facilities include:

- Water Sports (Rowing, Canoeing & Kayaking in association with SAI)
- Power Lifting , Weight Lifting & Best body Physique
- First Class Cricket Stadium and Net Practice Facilities.
 - ✓ A Bowling machine
 - ✓ 2 Cricket Nets – 14 x 3 meters
 - ✓ 3 practice pitches
 - ✓ Facilities for net practice
 - ✓ Other facilities like player’s room, water tank, toilets and indoor-practice facility are also maintained well.
- Chess
- Shuttle Badminton Court
- Athletics
 - ✓ Multi gymnasium
 - ✓ Concrete Basketball Court
 - ✓ Carom Board
 - ✓ 200 M Track
 - ✓ Volleyball court
 - ✓ Handball court
 - ✓ Kabbadi court
 - ✓ Sevens Football ground
 - ✓ Ball Badminton

5. Cultural Activities by Students and staff

The college provides facilities for practice and performance of cultural activities. Staff Club for both teaching and non teaching staff organises various cultural activities and celebrates special occasions like Onam, Christmas etc. College level cultural activities and celebrations are held in the main auditorium. Department level celebrations are arranged in the Golden Jubilee Auditorium.

6. Women’s Studies Cell

The Women’s Studies Cell has a room to convene meetings and discussions.

7. Counselling Cell

Counselling Centre is a place of solace to students and staff who seek support and guidance. It functions in the Women's Studies Cell's room.

8. National Cadet Corps (NCC)

The college has NCC units separately for boys and girls. NCC is provided with a well furnished work space for office and store.

9. National Service Scheme (NSS)

A separate room has been provided for the smooth functioning of the NSS unit.

10. Gymnasium

✓ A Gymnasium is working in the college with the following equipments:

- Multi Gymnasium with 12 station
- Weight Lifting and Power Lifting Weights
- Dumbbells

11. Other Clubs and Forums

The following clubs and forums are functioning in the college, under the co-ordinatorship of a faculty member. The meetings of clubs are usually conducted in rooms convenient to the coordinator, and programmes and activities are organised in the auditorium/seminar halls.

- | | |
|-------------------------------------|------------------------|
| • Health Club | • Civil Service Club |
| • Academic and Research Forum | • Staff Club |
| • Literary Club | • Human Rights Forum |
| • Planning Forum | • Haritha Sanatanam |
| • Music Club | • Bhoomithra Sena |
| • Drama Club | • Mathematics Club |
| • Film Club | • Debate and Quiz Club |
| • Eco Club | • Science Club |
| • Entrepreneurship-Development Club | • Red Ribbon Club |
| • Antiquarian | • Folklore club |

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).

The main facilities in infrastructure of the college include the class rooms, laboratories, seminar halls, library, auditorium, gymnasium and play-ground. The optimum utilization of the facilities is ensured by the various committees functioning in the college. The college auditorium, where the cultural programmes of the college are conducted is optimally utilized by conducting University examinations, Centralised Valuation C a m p s , Book fairs, ED activities etc. The college library is optimally utilized by both staff and students on all working days. On holidays, the library reading hall is used for conducting activities such as quiz /essay competitions of clubs/government/semi government organisations on approval of the Principal. Institute of Distance Education (University of Kerala) classes on Library Science are also facilitated in the library. All the science laboratories are being optimally used by students. Students are permitted to repeat the practicals during leisure hours and Saturdays as directed by the teacher concerned. Laboratories are also utilized by the students from other colleges seeking consultation and guidance. The college ground is utilized by other organizations

to conduct various events/meets with the consent of the management. The infrastructure facilities such as class rooms, laboratories, computers etc., are put to use optimally through appropriating scheduling of usage timing rather than duplicating such facilities. Central power back-up facility is available for the optimum use of facilities. Play grounds and stadiums are open to students of our college as well as students of neighbouring colleges in the morning and evening. Staff and students utilize the facilities at the Gymnasium to the maximum. Students and research scholars are encouraged to do their projects in the computer labs of the college. Coaching for banks and other competitive exams is arranged on Saturdays and Sundays by the CGPC. Students are made to use ICT facilities for seminars/projects/assignments

Table 4.1**Facilities developed/augmented and the amount spent during the last four years**

Sl. No.	Project Implemented/facilities developed	Amount (In Rs.)
1	IQAC Room-Facilities Enhanced with Audio and Video	2,71,571/-
2	Abdul Kalam Memorial Instrumentation Centre	78,39,942/-
3	Central Computing Facility	9,87,500/-
4	New Academic Block (North) Block	2,15,92,181/-
5	All departments/Lab Renovated/research scholars' room	50,80,296/-
6	Computers (procurement and upgradation)	20, 59, 754/-
7	Laptops	2, 18, 231/-
8	Printers	1, 53, 382/-
9	Projectors	2, 42, 773/-
10	Lab Equipments (UGC Assistance)	8, 69, 541/-
11	Research Lab equipments under FIST and SARD Projects*	68,89, 000/-
12	Basic Science/Teaching instruments under FIST-DST*	32, 00, 000/-
13	Equipments (Procurement and upgradation)	23,52, 051/-
14	Furniture	2, 98, 970/-
15	Generator	8, 90, 000/-
16	LAN Networking & Installation (LAN-optical fibber)	3, 20,580/-
18	UPS for computers	1,85, 269/-
19	Softwares for computing under FIST-DST**	7, 00, 000/-
20	Books	11, 66, 720/-
21	White / Green Boards	3, 43, 052/-
22	Smart boards	1, 80, 000/-
23	Video Cameras	43, 493/-
24	Ladies Hostel new Block	50, 00, 000/-
25	Renovated Ladies Rest Room and installed Incinerator	25,000/-
26	Water filters Installed in all departments:	1, 07, 44/-
27	Installation of 400KV Transformer	30,00,000/-
28	Fitness centre and Gymnasium	23,70,680
29	New Urinal Complex (Boys)	13,00,520
30	Physics Lab for SARD	2,08,350
31	False Ceiling of Rooms	6,89,638/-
32	Softwares purchased using UGC grant	75, 000/-

* see table 3.8 and 3.9 in section 3.3.3 for the detailed list of equipments.

** MATTAB, SAS, MAPLE, Microsoft Volume License, MATHEMATICA, ORIGIN etc.

[Copy of the Master Plan of the College is enclosed as Appendix 1]

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

- Classes of differently abled students are arranged in the ground floor of the buildings.
- A Wheel chair is available for such students in the college.
- Vehicles of differently abled students are permitted to the door steps of the buildings.
- At the beginning of every academic year the college identifies and trains students who are ready to offer voluntary help to differently abled students.
- Special seating arrangements are made for differently abled students during examinations.
- Reservation in admission is allowed as per university norms to such students.
- The institution provides ramp and rail facility to aid the students with physical disabilities.
- Braille materials are also available in the college library to aid the differently-abled students.
- Special software for visually impaired students is provided in the General Library

4.1.5 Give details on the residential facility and various provisions available within them:

- Accommodation -The college runs a women's hostel accommodating both PG and UG students with a capacity of 126 students
- Yoga classes and recreational facilities like shuttle badminton, chess, caroms etc. are provided.
- Facilities for medical emergencies - First-aid facility has been provided for taking care of minor casualties in the hostels. There is easy access to four major hospitals within a radius of 2 kms. A physician is available in the Medical Clinic located in front of the college during the working hours of the college.
- Library facility in the hostel- Hostel has a small library with 300 books. Periodicals and daily newspapers are also provided.
- Recreational facility-common room with audio-visual equipments. - A room with television is provided for the recreation of the students in the ladies' hostel.
- Available residential facility for the staff and occupancy, Constant supply of safe drinking water - Accommodation facilities are provided for women faculty in ladies' hostel. The hostel has its own bore well in its campus for its daily purposes and for safe drinking water. Water filters are installed in the hostels and in the women's waiting room.
- Security - The hostels are well secured with gated compound walls. Manned security is also provided round the clock.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

First aid facility is kept in all departments. A well established hospital, the Cooperative Medical Hospital with over 500 beds for inpatients, outpatient, Emergency Care Facility, Ambulance etc. is available within 2 kms. A clinic with a physician is functioning in front of the college. 'Doctor at Call' scheme is introduced as a permanent arrangement with this clinic. Alappuzha Medical College is also situated

within the 5 kms radius of the college. College organizes separate health awareness seminars for staff and students. The Women's Studies Cell conducted a cancer awareness class by Dr. Gangadharan, the famous oncologist. The NCC conducted a one day workshop on emergency medical services. The NSS regularly conducts blood donation camps, aids awareness classes etc.

4.1.7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

- IQAC: A separate room is exclusively dedicated for IQAC. The room is equipped with LCD projector, computers, printing facility, Conference U-table, executive chairs, almirahs for files etc.
- Grievance Redressal unit: The Cell meets at the Principal's office periodically.
- Women's Studies Cell: A separate room is provided for the meetings and activities of the WSC.
- Career Guidance and Placement Cell– The Career Guidance and Placement Cell is functioning in the college with necessary infrastructure.
- Canteen – Local cuisine facility has been provided in the canteen at subsidized rate for students. Separate luncheon area is also available for the students and staff.
- Drinking water facility: The College has sufficient water resources within in its campus. The college has open wells and a rainwater harvesting tanks. The college also has tanks for collecting water from the public supply system. Water filters are installed in all departments, and common drinking water facility with water coolers at four centralized locations, and the women's waiting room.
- Auditorium: The main auditorium of the college has a seating capacity of 800 students. In addition to that, the college has a Golden Jubilee Auditorium which can host an audience of 200 students.
- Training programmes for competitive examinations are provided on weekdays.
- Keltron Study Centre: Separate rooms are provided for the smooth conduct of the courses.
- The College Co-operative Store provides text books, stationery and photocopy facility to the students at concessional rates.
- Health and Fitness Centre: The College has a fully furnished health and fitness centre at the northern side of the campus. State of the art fitness equipments are provided for the usage of staff and students.
- Staff – Cooperative Society: Dedicated space is exclusively provided for the Staff Cooperative Society near the North block.
- Day Care Centre: A spacious building for the day care centre has been provided using UGC funding.
- Vehicle Parking space: Sufficient parking space for two wheelers and four wheelers are provided near the entrance of the college.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/ user friendly?

The Library Advisory Committee (LAC) has been set up in accordance with the norms laid down by the Expert Committee on College Libraries appointed by the Govt. of Kerala. It consists of the Principal, five heads of departments (in rotation for one year), Librarian, and a student representative. It gives directions, academic support, and guidance to the Library. The LAC holds a meeting at least once in a quarter to discuss and decide on matters regarding regular operations and also make policies of strategic nature. It takes decisions on procurement of books, journals, e-resources etc., and discusses and proposes the budget, evaluates suggestions made by users (Faculty, students and staff) and reviews the functioning of the Library from time to time.

Here are the few decisions it took recently on library operations:

1. It has decided to procure two more international journals, one for Arts and one for Science.
2. Committee decided to engage contract staff for creating a digital library by scanning books/ documents having adequate copyright. Being a college established in 1946, the library holds a number of books which are out of copyright regime. This creates opportunity to have a digital library of unique books which are otherwise not made available online by other repositories.
3. Organizing book exhibitions from time to time.
4. The committee decided to create social media platforms for the library for communication. A face book page, what's app group and a blog were suggested.
5. Sending updates on addition of books by the library on social media was also decided.

4.2.2 Provide details of the following:

1. Total Area of the Library (in Sq. Mts.)	The library has a total built-up area of 5904 sq M, spread over a single floor.
2. Total Seating Capacity	178
3. Working hours (on working days, on holidays, before examination days, during examination days, during vacation)	<ul style="list-style-type: none"> • Monday to Sunday - 9.30 AM - 4.30 AM • Summer Vacation (April and May) - 9.30 AM - 4.30 PM • Lunch Hours – No lunch hours. • We open the circulation counter during lunch hours which is found to be the most convenient time for return of books by students. • Issue Return - 9.30 AM - 4.30 PM • Our circulation counter is opened during all the working hours of the library. • Issue Return - 9.30 AM - 04.30 PM
4. Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)	<i>Individual reading carrels</i> are provided in the Reference Area and bay side of the Stack Area. The lounge area is equipped with enough seats for relaxed reading like news papers, magazines etc. We have a <i>separate IT Zone</i> with 7 networked PCs for Internet browsing. The systems run with Ubuntu Operating System in light of the Government's promotion for Open Source.

Layout of the Library is attached as Appendix 2

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Table 4.2

Amount spent for books and other materials for the last 5 years (in Rs.)

Library Holdings	2011-2012		2012-2013		2013-2014		2014-2015		2015-2016	
	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost
Text Books	837	153171	611	24365	908	226350	548	122685	102	210212
Reference	678	124074	916	33268	606	84001	821	172636	79	15958
Periodicals	56	68148	66	73729	59	60594	81	74683	72	65898
E-Resources	1	5000	1	5000	1	5000	1	5000	1	5000
Total	-	350393	-	136362	-	375945	-	375004	-	297068

At the time of admission the college collects a library fee as per government norms. The management also extends financial support from time to time. The college also gets UGC grants in plan periods which are being utilized by different departments for the acquisition of books along with other equipments and fixed assets.

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection.

- **OPAC**

The library is using open source software KOHA which was deployed in-house and the system is hosted in an internal server with public IP. The Online Public Access Catalogue is available over the Internet and also has a mobile theme to support easy access. The OPAC gives results from all major search criteria like: TITLE, AUTHOR, SUBJECT, ISBN, and CALL NUMBER AND KEYWORDS in all fields. OPAC is also listing blurbs of books from various commercial databases like Amazon and Google Books. If a book is not available, links of other sources will be automatically displayed. User log in for reservations are also provided at the home page of the OPAC

- Electronic Resource Management package for e-journals : The library is using NLIST facility for the title management
- Federated searching tools to search multiple databases: The facility is provided in the library website
- Library website: The library has a website which gives necessary information of available resources and also providing links to various electronic databases. It provides links of OPAC, library social media links etc. (www.sdcollege.in/library)
- In-house/remote access to e-publications: Library provides both in-house and remote access to e-publications. The computer centre inside the library provides access to remote databases. The library also has wi-fi facility for student access.
- Remote access is provided using individual credentials supplied from the library on user demands. Most of the PG and Research Students are using the facility.
- Library Automation: The library is fully automated with KOHA software. KOHA is a web based software having modules that support all library operations. We use in-house bar-coding systems for documents and also member profiles. The software is capable of Z.39.5 facility for interoperability with international catalogues and cataloguing facilities. Our library is using the Library of Congress and the Catalogue of the Singapore National University as the bench mark libraries for rendering of data and other standards.
- The number of computers for public access: 10
- The number of printers for public access: 3

- Internet band with/speed – 2 mbps
- Institutional repository: The library is having the E-print institutional repository facility for hosting research publications of faculty members and researchers.
- Content Management system for e-learning: We have installed MOODLE open sources e-learning system for course management. The mobile theme of MOODLE is student friendly and gives instantaneous access.
- Participation in Resource sharing and networks/consortia: We are a member of INFLIBNET of UGC.

4.2.5 Provide details on the following items

- Average number of walk-ins: 70
- Average number of books issued/returned: 28
- Ratio of library books to students enrolled: 1: 23
- Average number of books added in the last 3 years: 1470
- Average number of login in the OPAC: 17
- Average number of login to e-resources: 12
- Average number of e-resources downloaded/printed
- Number of information literacy training programmes organized: 3
- Details of weeding out of books and other materials: Not done so far

4.2.6 Give details of the specialized services provided by the library:

- Manuscripts : Not available
- Reference: The library has a separate reference section which holds important books and documents in different subjects, and various Encyclopaedias, Dictionaries, Current Affairs books, books for competitive examinations, rare collections of Sanskrit texts etc.
- Reprography: YES
- Inter Library Loan: Library is a member of American Library, Chennai
- Information Deployment and Notification: The Library displays important communications on the notices boards. It has a Facebook page and What's app group for providing everyday updates to the users. It also has a Google group which acts as a bulletin –board facility for the users.
- Download: The library staff help the students in locating, downloading and taking printouts of alien resources.
- Printing: The library provides 3 printers to the users. It takes only nominal rate for the printing facility.
- Reading list/bibliography: The library has bibliographies in print format generated out of the Online Catalogue on different subjects.
- In-house/remote access to e-resources: Library provides both in-house and remote access to e-resource. The computer centre inside the library is giving access to remote databases from the networked LAN facility. The library also has wi-fi facility for mobile access. Remote access is provided using individual credentials supplied from the library on user demands. Most of the PG and research students use the facility.
- User Orientation and awareness: The library staff conducts user orientation classes for various batches of students to sensitize them in information literacy, different sources of information, library rules and regulations etc.

- Assistance in searching Databases: The library staff gives assistance to students in locating information from various databases online
- INFLIBNET/IUC facilities: The library is a member of INFLIBNET NLIST consortia. It gives access to 30,000 e-journals, 5000 plus e-books from various publishers, videos and others.

4.2.7 Enumerate the support provided by the library staff to the students and teachers of the college

The library optimizes its services using the FIVE LAWS of library science wherever possible. It operates with a vision of 'user centred' activities. Each user and his/her query is dealt with empathy and accuracy. Library always keeps a human face in dealing with its users. In finding resources from OPAC, from remote databases etc., the staff helps the users in their demands, spending time effectively for each user. The following are examples of such services:

- Database access tutorials for registered students
- Content helps for degree students for class assignments
- General Internet technology tutorials for needy students
- Referencing software helps like MLA and APA
- Plagiarism software like 'Viper' services for assignments
- Remote catalogue services for literature surveys
- Basic office software helps for needy students
- Display of trade catalogues for books suggestions

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons?

A separate entrance is built for physically challenged people to access the library facilities. The staff provides personal help in locating and issuing books to differently abled students. NV Access screen reading facility is installed in Ubuntu OS for visually challenged users. The screen reader is an effective solution for accessing information for blinds.

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services

Yes, the library follows a feedback system. The feedback questionnaire is provided at the circulation desk. We take feedback from actual users and the LAC analyses the feedback and takes necessary steps to improve the library services. A separate complaint box is also provided for receiving complaints, if any, on library services.

4.3 IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution.

Table 4.3: Details of computing facilities available in the college

1	Number of computers available in the college	147
2	Laptops	12
3	configuration of each available system	<ul style="list-style-type: none"> • Intel Core 2 Duo E7500 Processor • Intel DG41WV Motherboard • 2GB DDR3 Ram • 500 GB Sata Hard disk • DVD Writer • Multimedia Speakers

		<ul style="list-style-type: none"> • LCD/TFT Monitor • Keyboard • Optical Mouse • ATX Cabinet • UPS 600 wats
4	Number of computers with Internet facility	147
5	Computer student ratio	1:16
6	LCD	22
7	Printers	37
8	Stand Alone Facility	2(3KVA Inverter Cum UPS with SF 150AH 4 Battery & Generator)
9	LAN Facility	Available in all labs, departments, library and office. The number of computers involved is 147.
10	Wi-fi Facility	available in all buildings
11	Licensed software	UBUNTU, Linux, MATTAB, SAS, MAPLE, Microsoft Volume License, MATHEMATICA, ORIGIN.

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

The college is equipped with adequate computer facility. All departments are provided with sufficient number of computers with internet facility. Members of the staff have free access to computers and Internet in the central computer lab. Internet facility is made available in the Department labs. A total of 147 computers are installed at various locations connecting all the departments, office and library using Optical Fibre Cable. Networking is done for the distribution of internet in the campus and for the use of Library. It facilitates data transfers (attendance, internal evaluation marks, student information etc., between the college office and individual departments). 135 computers are available at various departments for faculty and students with internet connectivity.

4.3.3. What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The college has a policy of periodical upgradation of IT infrastructure and facilities subject to the requirements and the availability of funds. The IQAC, UGC Planning Committee and Purchase Committee in consultation with the management evolve plans related to enhancing IT infrastructure and associated facilities. Periodical orientation and intensive training programmes to staff and students on ICT facilities and computing softwares are conducted. Upgradation of IT infrastructure is done through sources from sponsored projects, UGC grants, and contribution from Management.

4.3.4 Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years).

The computers are purchased under guarantee/warranty provided by the supplier. Others are maintained under the Annual Maintenance Contract (AMC). The expenses incurred for procurement, upgradation, maintenance etc., of computers for the last four years are given in table 4.4.

Table 4.4

Amount Spent for Procurement and Maintenance of Computers and Accessories (in Rs.)

Items	2011-12	2012-13	2013-14	2014-15	2015-16
Procurement	3,30,880/-	3,64,098/-	---	10,39,026/-	1,28,568/-
Up-gradation	72,250/-	36,173/-	46,278/-	37,598/-	4,883/-
Deployment	24,560/-	12,350/-	10,580/-	41,350/-	8,643/-
Maintenance of Computers including Accessories	35,000/-	42,000/-	18,750/-	37,550/-	58,350/-
Total	4,62,690/-	4,54,621/-	75,608/-	11,55,524/-	2,00,444/-

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

A good number of faculty members are using computer aided teaching methods by preparing power point presentations. Students are required to present ICT-Aided seminars. There are 5 'smart class rooms' with LCD projectors and interactive boards, where as different departments have a total of 22 LCD projectors. Overhead projectors are also made available for some departments. Students extensively make use of internet facility for projects and seminars. All PG classrooms are electrified and LCDs and Laptops are made available on demand. Students are provided internet access, free of cost. Teachers are encouraged to use ICT resources in the teaching learning process.

4.3.6 Elaborate by giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

- Students are encouraged to present ICT-aided seminars: Each of the courses prescribed by the University as per the curriculum demands student presentations as part of internal evaluation. Students at Post Graduate level are encouraged to make power point presentations for their seminars.
- Peer teaching using ICT resources are conducted by PG students and research scholars.
- Students are given data on real life problems for data analysis using software.
- Data collection, compilation and analysis are done by students themselves.
- Students use ICT resources for organizing department level programmes.
- Students prepare CDs, short films, documentaries, etc. using ICT tools.
- Students are encouraged to use online educational resources to complement and supplement class room learning.
- Language Lab facilitates for better understanding and usage of English language skills.
- Interactive Boards act as a novel teaching tool.
- Faculty members share the various study materials with students via online.
- Slowly we are moving to course management software, MOODLE, where in the students will be able to access all academic and academic administration files from the software 24x7, anywhere in the world.

Thus, teaching learning process is more effective and student centered.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

The college has access to INFLIBNET availability. All P.G. Departments, library and Computer Centre has been provided with broadband internet connectivity under the prestigious programme of MHRD, Government of India.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

The college follows an efficient and transparent system of allocating financial resources. Available fund is optimally allocated to different items by the Principal in consultation with the College Council, the IQAC, UGC- Planning Committee and the Purchasing Committee. Especially, major developmental projects are implemented only after discussing the matter in the general staff meetings, the Council meetings, and in the IQAC in the presence of the Manager.

For the implementation and execution of all facilities, the committee system is followed to ensure transparency. The Management is very keen that all purchase and maintenance should be based on tenders/quotations. All financial allocation and utilisation are subject to internal and statutory audit. Wherever required, a representative of the Manager/Principal supervises the utilization of funds and execution of projects. Utmost care is taken to limit the implementation of a project with the actual cost of projects within the budget allocation. While finalising such projects, suggestion obtained from students, teachers, parents and alumni are taken into consideration.

Table 4.5

Budget allocation (realised) for the maintenance of various items (in Rs.)

Sl. No.	Facilities	Budget allocation in the year (in Rs.)			
		2012-13	2013-14	2014-15	2015-16
1	Building	11,48,914	15,46,580	10,78,543	15,13,808
2	Furniture	15,678	20,145	34,567	1,23,456
3	Equipment	1,38,199	-	9,85,547	14,003
4	Computers	3,64,098	-	10,39,026	1,28,568
5	Vehicles	-	-	-	-
6	False ceiling	94,356	2,34,532	1,56,789	2,03,961

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

Annual Maintenance Contracts have been made with the respective companies for the costly equipments in the science departments. A system administrator was appointed by the Manager to take of the problems related to computers. Heavy works such as major repairs related to building, electric supply, network etc., are outsourced. The maintenance and upkeep of the infrastructure and other facilities are undertaken by the Management under the supervision of a representative. The Management also informally seeks the help/advice of experts/engineers having close relation with the Management for the upkeep of the buildings. For plumbing and electric works the college has employed a designated person. For the timely upkeep of all equipment, services of technicians from the suppliers are availed. Department heads are authorized to report and make arrangements for minor repairs in their departments. There is an LD Storekeeper and a Technician (Mechanic) in the college for the maintenance of lab equipments. There is a

Herbarium Keeper as well as a Gardener in the college. Security staff is also in place for safeguarding the facilities of the college round the clock.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

The sensitive equipments and all the high precision equipments are calibrated periodically by experts from the respective companies and well maintained. Computers were purchased under guarantee/warranty provided by the vendor. Others are maintained under the Annual Maintenance Contract. The technicians come on call. Optical characterization equipments and high precision balances are calibrated more frequently. Colorimeters and thermometers are also checked with their standards regularly. Incubators and deep-freezers are monitored daily. It is assured that Class-A glass wares are used for precision measurements.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

Power backup facilities, stabilizers, uninterrupted supply of water etc. are ensured to well protect the sensitive equipments. The College has invested Rs.30 lakhs for the installation of the transformer to avoid voltage fluctuations. The college has also one generator to bridge the power cuts by the KSEB. Wells and sufficient storage tanks ensure availability of water in all the buildings and floors. We make use of rain water harvesting facility to overcome the scarcity of water during summer season. Installation of a dedicated transformer with 400 KV capacity has been progressing to solve voltage fluctuation problems. A generator with 2KVA capacity is installed in the campus for ensuring uninterrupted electric supply. Most of the sensitive instruments are backed up by UPS. The Physics department has an inverter.

4.4.5 Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

A plan proposal to set up an indoor stadium in the college has been submitted to UGC.

CRITERION V

STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If

‘yes’, what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, the college publishes its updated Calendar annually and is given to all students who secure admission. It contains all necessary information including the College Prayer, Vision and Mission of the College, names of the Members of the Managing Board, College Council, Programmes of Study, details of centres of research, the teaching faculty and staff with their phone numbers, admission rules, extract of rules and regulations of CBCSS and CSS, fee rules and fee chart, scholarships and prizes, students’ code of conduct and discipline, UGC regulations on curbing ragging, grievance redressal cell, library and IT facilities, various academic infrastructure and hostel facility for girls, career guidance and counselling, PTA and the various clubs and forums like NCC, NSS, WSC etc which coordinate extra-curricular activities. The calendar also includes the general timetable and academic calendar. This is a ready reference for students and they are advised to carry it with them to college every day. University of Kerala introduced Centralized Allotment Process (CAP), for UG and PG programmes in the year 2012 and 2009 respectively, where candidates apply online directly to the university and the allotments are made centrally. The College calendar allows the students to identify courses of more value in the current educational scenario.

Besides, the college website (www.sdcollege.in) gives a comprehensive view of the college, its infrastructure facilities, curricular and co-curricular programmes, faculty profiles, University and UGC related information and other necessary links. The website also provides access to e-learning resources and enables a learner centric atmosphere. The college hosts an ‘institutional repository’ of all faculty publications through E-PRINT software. In addition, information about the various activities in the college is provided through social networking platforms like Facebook, Twitter, blog etc through separate hyperlinks. The institute is gradually planning for course management software “MOODLE” where all information related to academics will be provided 24x7 as part of our commitment to quality enhancement. The institution is committed to ensuring transparency and accountability in all its academic and administrative activities through a self regulatory mechanism.

5.1.2 Specify the type, number and amount of institutional scholarships/freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The college has an inclusive vision of imparting holistic education to the youth from all strata of society. The admissions are done following the general rules of the aided system. Special consideration is given to students hailing from poor and marginalized sections in the management quota. There are various scholarships, endowments, and cash awards instituted by the Management, various departments, well-wishers and Alumni, which are distributed on merit. This year onwards PTA has constituted Proficiency Prizes for students who achieve meritorious positions in University Examinations from all UG and PG classes. The teaching fraternity and well wishers support the deserving students with freeships and

other support mechanisms. A special section has been constituted in the college office to handle scholarship matters. More than two lakh rupees have been provided in the last five years.

Table 5.1: List of Endowments Initiated By Management

Sl. No	Name of the scholarship	Year	Amount (Rs.)
1	Sri. K V Muraleedharan & Smt. Vijayalekshmi Memorial Endowment	2012	655/-
2	Sri. K V Muraleedharan & Smt. Vijayalekshmi Memorial Endowment	2012	655/-
3	Prof. S Rajaram Memorial Endowment	2012	925/-
4	Sri. Venkitachalam Iyer Memorial Endowment	2012	437/-
5	Sri. Chithira Thirunal Award	2012	101/-
6	Sri. Joseph Kora Memorial Endowment	2012	210/-
7	Sri. Mohanachandran Memorial Endowment	2012	262/-
8	Sri. S S N Moorthy Endowment Prize	2012	437/-
9	Sri. R Anatharaman Memorial Endowment	2012	1747/-
10	Sri. Mankombil Raghavan Pillai and Lakshmi Raghavan Pillai Memorial Endowment	2012	2620/-
11	Prof. A Natarajan Endowment Prize	2012	4598/-
12	Prof. A Natarajan Endowment Prize	2012	4598/-
13	Monkombil Sri AndiIyer Memorial Endowment Prize	2012	445/-
14	Dr. K N Parameswaran Endowment Award	2012	175/-
15	Dr. K K Nair Endowment Award	2012	1747/-
16	Dr. K S Padmanabha Iyer Memorial Endowment Award	2012	139/-
17	Sri. K V Muraleedharan & Smt. Vijayalekshmi Memorial Endowment	2013	736/-
18	Sri. K V Muraleedharan & Smt. Vijayalekshmi Memorial Endowment	2013	735/-
19	Prof. S Rajaram Memorial Endowment	2013	922/-
20	Sri. Venkitachalam Iyer Memorial Endowment	2013	490/-
21	Sri. Chithira Thirunal Award	2013	101/-
22	Sri. Joseph Kora Memorial Endowment	2013	209/-
23	Sri. Mohanachandran Memorial Endowment	2013	294/-
24	Sri. S S N Moorthy Endowment Prize	2013	490/-
25	Sri. R Anatharaman Memorial Endowment	2013	1961/-
26	Sri. Mankombil Raghavan Pillai and Lakshmi Raghavan Pillai Memorial Endowment	2013	2942/-
27	Prof. A Natarajan Endowment Prize	2013	4737/-
28	Prof. A Natarajan Endowment Prize	2013	4737/-
29	Monkombil Sri AndiIyer Memorial Endowment Prize	2013	445/-
30	Dr. K N Parameswaran Endowment Award	2013	196/-
31	Dr. K K Nair Endowment Award	2013	1961/-
32	Dr. K S Padmanabha Iyer Memorial Endowment Award	2013	133/-
33	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment Prize	2013	1035/-
34	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment Prize	2013	1035/-
35	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment Prize	2013	1030/-
36	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment Prize	2013	1030/-
37	Sri. K V Muraleedharan & Smt. Vijayalekshmi Memorial Endowment	2014	724/-
38	Sri. K V Muraleedharan & Smt. Vijayalekshmi Memorial Endowment	2014	724/-
39	Prof. S Rajaram Memorial Endowment	2014	917/-
40	Sri. Venkitachalam Iyer Memorial Endowment	2014	482/-
41	Sri. Chithira Thirunal Award	2014	101/-
42	Sri. Joseph Kora Memorial Endowment	2014	271/-
43	Sri. Mohanachandran Memorial Endowment	2014	289/-

44	Sri. S S N Moorthy Endowment Prize	2014	482/-
45	Sri. R Anatharaman Memorial Endowment	2014	1931/-
46	Sri. Mankombil Raghavan Pillai and Lakshmi Raghavan Pillai Memorial Endowment	2014	2897/-
47	Prof. A Natarajan Endowment Prize	2014	5672/-
48	Prof. A Natarajan Endowment Prize	2014	3781/-
49	Moncombil Sri AndiIyer Memorial Endowment Prize	2014	445/-
50	Dr. K N Parameswaran Endowment Award	2014	193/-
51	Dr. K K Nair Endowment Award	2014	1931/-
52	Dr. K S Padmanabha Iyer Memorial Endowment Award	2014	128/-
53	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment Prize	2014	2312/-
54	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment Prize	2014	2313/-
55	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment Prize	2014	2312/-
56	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment Prize	2014	2313/-

Table 5.2**List of Endowments Initiated at Department Level**

List of Endowments Initiated at Department Level 2012-13				
Sl. No	Name of the scholarship	No	Dept.	Amount (Rs.)
1	Prof. K.Balakrishna Pillai Memorial Award – Highest Mark in B.Sc. Chemistry Theory	1	CHEMISTRY	1000/-
2	Ramesh Pai Memorial endowment – Highest Score in M.Sc Chemistry	1		1000/-
3	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	4		500/-
4	Awards for M.Com topper -CK George Memorial Fund	1	COMMERCE	300/-
5	Awards for M.Com topper- CK Bharatha Varma Endowment Fund	1		1300/-
6	Awards for B.Com topper -CK Bharatha Varma Memorial Fund	1		300/-
7	Awards for B.Com topper -K Hari Memorial Fund	1		600/-
8	Awards for B.Com topper -MN Potti Memorial Fund	1		1,000/-
9	Award for B.Com Sem I (Subramanian Memorial Fund)	1		1000/-
10	Award for Optional paper (Taxation) (MN Potty Memorial Award)	1		Rs.500/
11	Award for B.Com (Accounting) (V Narayanan Nampoothiri Endowment Award)	1		500/-
12	Prof. L.C.Nair Memorial Endowment Prize	1	ECONOMICS	2000 /-
13	Dr. K.P.Viswanatha Iyer Award	1		500/-
14	Prof. N.Bhaskara Pillai Memorial Endowment Prize	2		1000/-
15	Honoring First Class Holders In MA Economics			Trophy
16	P.K. Padmanabhan Potty Memorial Endowment	1	ENGLISH	1000/-
17	Aneesh Endowment For Students of Final Year who got highest mark in Subject	1	HINDI	500/-
18	Prof.Revindranath Endowment For Students of Final Year who got Highest Mark in Subject	1		500/-
19	Prof. Ramavarma Thampuran Memorial Endowment	1	MALAYALAM	1000/-
20	Vadathodath K.N.Divakaran Pillai Memmorial Endowment	1		501/-
21	Prof T.A Sathagopan Endowment	1	MATHEMATICS	1000/-
22	Prof. M.C Gopalakrishnan Endowment	1		750/-
23	Arjun Sekhar Memorial Endowment	1		1000/-

24	a. Dr.Rajashekaharan Nair Endowment for BA History topper b. Dr.S.Krishna Iyer Silver Jubilee Endowment	2	HIST ORY	500/-
25.	Dr. K. K. Nair Endowment for M.Sc. topper	1	ZOO LOGY	1600/-
26	Dr. K. N. Parameshwaran for M.Sc. topper	1		260/-
27	Dr. K. K. Nair Endowment for B.Sc. topper	1		800/-
28	Dr. K.S. Padmanabha Iyer	1		150/-
29	Smt. Padmavathy Amma	1		101/-
30	Dept. of Zoology for B.Sc. topper	1		250/-

List of Endowments Initiated At Department Level: 2013-14

Sl. No	Name of the scholarship	No	Dept.	Amount (Rs.)
1	Prof. K.Balakrishna Pillai Memorial Award – Highest Mark in BSc Chemistry	1	CHEMISTRY	1000/-
2	Ramesh Pai Memorial Endowment – Highest Score in M.Sc Chemistry	1		1000/-
3	R.S. Kamath Memorial Cash Award – topper in B.Sc Chemistry by Smt.Parvathy (Alumni-86)	1		1001/-+ Trophy
4	Cash award for the topper in Organic Chemistry Paper-I by Sri. Suresh kumar (Alumni)	1		1000/- Trophy
5	Cash award for economically backward & academically brilliant students of Chemistry dept by Sri.Venugopal (Alumni 70s)	3		5000/-
6	Awards for M.Com topper CK George Memorial Fund	1	COMMERCE	300/-
7	Awards for M.Com topper CK Bharatha Varma Endowment Fund	1		1300/-
8	Awards for B.Com topper CK Bharatha Varma Endowment Fund	1		300/-
9	Awards for B.Com topper K Hari Memorial Fund	1		600/-
10	Awards for B.Com topper MN Potti Memorial Fund	1		1000/-
11	Award for Optional paper (Taxation) (MN Potty Memorial Award)	1		500/-
12	Award for B.Com (Accounting) (V Narayanan Nampoothiri Endowment Award)	1		500/-
13	Award for B.Com Sem 1 (Subramanian Memorial Fund)	1		1000/-
14	Award for M Com Sem1 & 2 topper (P M Thomas Endowment Fund)	1	1050/-	
15	Prof. L.C. Nair Memorial Endowment Prize	1	ECONO MICS	2000/-
16	Dr. K.P. Viswanatha Iyer Award	1		500/-
17	Prof. N. Bhaskara Pillai Memorial Endowment Prize	2		.1000/-
18	Honouring First Class holders in MA Economics	-		Trophy
19	P K P Memorial Prize	1	ENGL ISH	1000/-
20	Aneesh Endowment for BA Hindi topper	1	HINDI	500/-
21	Prof.Revindranath Endowment for students of final year who got highest mark in subject	1		500/-
22	Prof. Ramavarma Thampuran Memorial endowment	1	MALA YALA M	1000/-
23	Vadathodath K.N.Divakaran Pillai Memorial Endowment	1		501/-
24	Prof T .A Sathagopan Endowment	1	MAT- HS	1000/-
25	Prof. M.C Gopalakrishnan Endowment	1		750/-
26	Arjun Sekhar Memorial Endowment	1		1000/-
27	Cash award to Second Rank holder in MSc (Rakhi)	1		1000/-
28	Cash award to Third Rank holder in MSc (Arathy R)	1		1000/-
29	Dr. K. K. Nair Endowment for M.Sc. topper	1	ZOO LOGY	1600/-
30	Dr. K. N. Parameshwaran for M.Sc. topper	1		260/-
31	Dr. K. K. Nair Endowment for B.Sc. topper	1		800/-

32	Dr. K.S. Padmanabha Iyer award	1		150/-
33	Smt. Padmavathy Amma award	1		101/-
34	Dept. of Zoology for B.Sc. topper	1		250/-
35	Endowment by Botany Department	1	BOTA	487/-
36	Endowment by Botany Department	1	NY	487/-
37	a. Dr.Rajashekaharan Nair Endowment for BA History topper b. Dr.S.Krishna Iyer Silver Jubilee Endowment	2	HISTO RY	500/- each
List of Endowments Initiated at Department Level 2014-15				
Sl. No	Name of the scholarship	No	Dept.	Amount (Rs.)
1	Endowment instituted by the Dept of Botany for the topper in BSc and MSc Botany	4	BOT- ANY	1000 x 3 500 x 1
1	Mancombil Raghavan Pillai and Lekshmi Raghavan Pillai Memorial Endowment Prize given to topper in MSc Chemistry.	1	CHE- MIST RY	2500/-
2.	Prof. K. Balakrishna Pillai Memorial award for BSc Chemistry topper	1		1500/-
3.	Prof. R.S. Kammath Memorial endowment for BSc Chemistry topper	1		1000/-
4.	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I by Dr.P.S.Parameswaran	7		300/-
5	Awards for M.Com topper CK George Memorial Fund	1	COMMERCE	300/-
6	Awards for M.Com topper CK Bharatha Varma Endowment Fund	1		1500/-
7	Awards for B.Com topper CK Bharatha Varma Endowment Fund	1		300/-
8	Awards for B.Com topper K Hari Memorial Fund	1		600/-
9	Awards for B.Com topper MN Potti Memorial Fund	1		1,200/-
10	Awards for B.Com topper KR Mohanan Memorial	1		1000/-
11	Award for Optional paper (Taxation) (MN Potty Memorial Award)	1		Rs.500/-
12	Award for B.Com (Accounting) (V Narayanan Nampoothiri Endowment Award)	1		500/-
13	Award for B.Com Sem 1 (Subramanian Memorial Fund)	1		1000/-
14	Award for M Com Sem1 & 2 topper (P M Thomas Endowment Fund)	1		1050/-
15	Prof. L.C.Nair Memorial Endowment Prize	1	ECO- NOMI CS	2000/-
16	Dr. K.P.Viswanatha Iyer Award	1		500/-
17	Prof. N.Bhaskara Pillai Memorial Endowment Prize	2		1000/-
18	Honoring First Class holders in MA Economics	-		Trophie s
19	P. K Padmanabhan Potty Memorial Endowment Prize	1	ENG- LISH	2000/-
20	Akshayakumar Memorial Endowment Prize	1		1000/-
21	Prof. Lakshminarasimha Iyer Memorial Award (instituted by his student Desikan)	1		5000/-
22	A.P. Kuriakose Memorial Endowment Award	1		1000/-
23	Mrs. Bhaskara Pillai Memorial Endowment Award	1		1000/-
24	Aneesh Endowment for BA Hindi topper	1	HINDI	500/-
25	Prof.Revindranath Endowment for BA Hindi topper	2		500/-
26	Dr.Shashikala Namboothiri Endowment forBA Hindi topper	3		500/-
27	Prof. Ramavarma Thampuran Memorial Endowment	1	MAL- AYAL AM	1000/-
28	Vadathodath K.N.Divakaran Pillai Memorial Endowment	1		501/-
29	Prof T .A Sathagopan Endowment	1	MAT- HS	1000/-
30	Prof. M.C Gopalakrishnan Endowment	1		750/-
31	Arjun Sekhar Memorial Endowment	1		1000/-

32	Dr. K. K. Nair Endowment for M.Sc. topper	1	ZOO- LOGY	1600/-
33	Dr. K. N. Parameshwaran for M.Sc. topper	1		260/-
34	Dr. K. K. Nair Endowment for B.Sc. topper	1		800/-
35	Dr. K.S. Padmanabha Iyer award	1		150/-
36	Smt. Padmavathy Amma award	1		101/-
37	Dept. of Zoology award for B.Sc. topper	1		250/-
38	a. Dr.Rajashekaharan Nair Endowment for BA History topper b. Dr.S.Krishna Iyer Silver Jubilee Endowment.	2	HIST- ORY	500/- each
List of Endowments Initiated At Department Level 2015-16				
Sl. No	Name of the scholarship	No	Dept.	Amount (Rs.)
1	Mancombil Raghavan Pillai and Lekshmi Raghavan Pillai Memorial Endowment Prize given to topper in MSc Chemistry.	1	CHEMISTRY	2500/-
2	Prof. K. Balakrishna Pillai Memorial award for securing highest mark in BSc Chemistry	1		1500/-
3	Prof. R.S. Kammath Memorial endowment given to the student who secures highest marks in BSc Chemistry	1		1001/- Trophy
4	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I by Dr.P.S.Parameswaran	1		1000/-
5	Financial Assistance for to Students By Smt Karthika Devi	2		800x2
6	Awards for M.Com topper CK George Memorial Fund	1	COM- MER CE	500/-
7	Awards for M.Com topper CK Bharatha Varma Endowment Fund	1		500/-
8	Awards for B.Com topper CK Bharatha Varma Endowment Fund	1		500/-
9	Awards for B.Com topper K Hari Memorial Fund	1		600/-
10	Awards for B.Com topper MN Potti Memorial Fund	1		1,200/-
11	Awards for B.Com topper KR Mohanan Memorial	1		1000/-
12	Award for Optional paper (Taxation) (MN Potty Memorial Award)	1		500/-
13	Award for B.Com (Accounting) (V Narayanan Nampoothiri Endowment Award)	1		500/-
14	Award for B.Com Sem 1 (Subramanian Memorial Fund)	1		1000/-
15	Award for M Com Sem1 & 2 topper (P M Thomas Endowment)	1		1050/-
16	Endowment instituted by the Dept of Botany for the topper in BSc and MSc Botany	4	BOT- ANY	100 × 3 500 × 1
17	Aneesh Endowment for BA Hindi topper	1	HIN- DI	500/-
18	Prof.Revindranath endowment for BA topper	2		500/-
19	Dr.Shashikala Namboothiri endowment for BA Hindi topper	3		500/-
20	Prof T.A Sathagopan Endowment	1	MAT- HS	1000/-
21	Prof. M.C Gopalakrishnan Endowment	1		750/-
22	Arjun Sekhar Memorial Endowment	1		1000/-
23	Dr. K. K. Nair Endowment for M.Sc. topper	1	ZOO- LOG Y	1600/-
24	Dr. K. N. Parameshwaran for M.Sc. topper	1		260/-
25	Dr. K. K. Nair Endowment for B.Sc. topper	1		800/-
26	Dr. K.S. Padmanabha Iyer award	1		150/-
27	Smt. Padmavathy Amma award	1		101/-
28	Dept. of Zoology for B.Sc. topper	1		250/-
29	a. Dr.Rajashekaharan Nair Endowment for BA History topper b. Dr.S.Krishna Iyer Silver Jubilee Endowment	2	HIST- ORY	500/- each

5.1.3 What percentage of students receive financial assistance from state government, central government and other national agencies?

From its humble beginning in the year 1946, till date, S.D. College has focussed on providing cost effective quality education to the under privileged sections of society.

Over the years the college has given importance to admit students from under privileged sections of the society and improve their living conditions. Testimony to it is the percentage of students who get financial assistance from State Government, Central Government and other financial agencies. Nearly 70% of the students get financial assistance from various government departments for their education in the form of scholarships, fee concessions and allowances.

A dedicated unit of the College Office takes care of the needs of the students related to the scholarships. A whopping amount of Rs. 3,54,00,146/- has been provided in the form of total financial assistance from State Government for the last five years. This is excluding the amounts yet to be received by the major section of students who got admission in the academic year 2015-16, as part of the procedural delay from the part of the Government. The following table gives a preview of the amount of financial assistance received by students from the State Government agencies/departments alone.

Table 5.3

Financial Support (Scholarships/Fee Concessions) to various category Students-Year wise (in Rupees)

2011-12 OVERALL FINANCIAL SUPPORT			
CATEGORY	I YEAR	II YEAR	III YEAR
SC	702968	701555	514596
OEC	530284	648554	452887
ST	22636	0	6195
OBC	223455	119045	112475
KPCR	590500	317665	297525
SEBC	172104	129060	0
FC	139188	98575	0
FISHERIES	150916	148820	91320
TOTAL	2532051	2163274	1474998
OVERALL TOTAL OF 2011-12		Rs. 6 1,70,323/-	
Total No of students for the year 2011-12			1947
Students Getting Scholarship for 2011-12			1505
Percentage of students getting scholarship			77.30

2012-13 OVERALL FINANCIAL SUPPORT			
CATEGORY	I YEAR	II YEAR	III YEAR
SC	783435	930484	622115
OEC	504656	716815	811900
ST	66624	34693	0
OBC	177180	165305	122765
KPCR	670710	393330	320275
SEBC	98693	245065	0
FC	98693	80735	0
FISHERIES	257497	181600	145900
TOTAL	2657488	2748027	2022955
OVERALL TOTAL OF 2012-13		Rs. 74, 28, 470/-	

Total No of students for the year 2012-13	2048
Students Getting Scholarship for 2012-13	1493
Percentage of students getting scholarship	72.9

2013-14 OVERALL FINANCIAL SUPPORT			
CATEGORY	I YEAR	II YEAR	III YEAR
SC	1166698	958522	505452
OEC	446969	496670	451714
ST	7260	59202	9920
OBC	239130	139645	137255
KPCR	645030	461660	323410
SEBC	259839	324150	0
FC	96153	103351	0
FISHERIES	161482	468350	19850
TOTAL	3022561	3011550	1447601
OVERALL TOTAL OF 2013-14			Rs. 74, 81, 712/-

Total No of students for the year 2013-14	2106
Students Getting Scholarship for 2013-14	1451
Percentage of students getting scholarship	68.89

2014-15 OVERALL FINANCIAL SUPPORT			
CATEGORY	I YEAR	II YEAR	III YEAR
SC	1578796	1338634	649812
OEC	646696	14470	516008
ST	21305	0	15044
OBC	0	168560	149285
KPCR	0	467255	484785
SEBC	119096	180164	0
FC	58973	59863	0
FISHERIES	200860	176850	282800
TOTAL	2625726	2405796	2097734
OVERALL TOTAL OF 2014-15			Rs. 71,29,256/-
Total No of students for the year 2014-15			2216
Students Getting Scholarship for 2014-15			1485
Percentage of students getting scholarship			67.01
2015-16 - OVERALL FINANCIAL SUPPORT			
CATEGORY	I YEAR	II YEAR	III YEAR
SC	1583265	731852	473389
OEC	346596	440321	496019
ST	17856	51546	9240

OBC	71575	139160	151310
KPCR	706175	374660	425540
SEBC	77234	130500	0
FC	124670	238240	0
FISHERIES	205787	241600	153850
TOTAL	3133158	2347879	1709348
OVERALL TOTAL OF 2015-16			Rs. 71, 90, 385/-
Total No of students for the year 2015-16			2283
Students Getting Scholarship for 2015-16			1545
Percentage of students getting scholarship			67.67

In addition to the above financial assistance from State Government, students also get financial assistance from Various Central Government schemes and some state government schemes/quasi Government bodies which constitute more than Rs. 15 Lakhs for the last four years, excluding 2015-16, as the amount has not been transferred, though approved.

5.1.4. What are the specific support services/facilities available for 1) Students from SC/ST, OBC and economically weaker sections 2) Students with physical disabilities 3) Overseas students 4) Students to participate in various competitions/National and International 5) Medical assistance to students: health centre, health insurance etc. 6) Organizing coaching classes for competitive exams 7) Skill development (spoken English, computer literacy, etc.,) 8) Support for “slow learners” 9) Exposures of students to other institution of higher learning/ corporate/business house etc. 10) Publication of student magazines

The institution is committed to provide the students every possible help and support they need in their pursuit to become civilized and worthy citizens. For the purpose of imparting holistic education, we provide necessary support to students.

1) Students from SC/ST, OBC and economically weaker sections

- The students belonging to SC/ST, OBC and the economically weaker sections are identified during the process of admission itself. The College maintains a detailed record of the same.
- The institution takes special care of SC/ST students and conducts orientation/awareness programmes to convey that “education is the only weapon to solve any kind of problem” in their life and society.
- SC/ST Monitoring Cell is functioning in the college under the guidance of a senior faculty member to ensure the welfare of SC/ST students.
- Remedial coaching is conducted on a regular basis in the college aiming at improving the results of such students.
- 50% of seats are reserved for SC/ST students in the hostel. They are given free food and accommodation with the aid from the SC/ST Department of the State Government.
- Approximately, 70% of total number of students gets financial assistance from State Government, and the college does the needful to ensure that they receive the assistance due to them.

Table 5.4

Overall Financial Support for Five Years-Category Wise (in Rupees)										
CATEGOR Y	2011-12		2012-13		2013-14		2014-15		2015-16	
	No.	Amt.	No.	Amt.	No.	Amt.	No.	Amt.	No.	Amt.
SC	250	1919119	238	2336034	223	2630672	277	3567242	318	2788506
OEC	209	1631725	206	2033371	173	1395353	208	1177174	209	1282936
ST	3	28831	6	101317	7	76382	9	36349	9	78642
OBC	229	454975	315	465250	208	516030	163	317845	207	362045
KPCR	620	1205690	607	1384315	599	1430100	568	952040	554	1506375
SEBC	69	301164	81	343758	102	583989	102	299260	93	207734
FC	45	237763	43	179428	36	199504	53	118836	64	362910
FISHERIES	80	391056	97	584997	103	649682	105	660510	92	601237
TOTAL	1505	6170323	1593	7428470	1451	7481712	1485	7129256	1546	7190385

2. Students with Physical Disabilities

- 3% seats are reserved for students belonging to differently-abled category or physically challenged students as per UGC/ University/Govt. regulations.
- The institution is committed to accommodate them on the ground floor for their classes.
- They have peers to take care of them, escort them to their classes and help them in their studies.
- College takes special efforts to enable physically challenged students to secure Government freeships.
- Visually challenged students have a provision for scribes from the college during tests and final examinations.
- A wheel-chair is made available in the college.
- Vehicles of such students are permitted to the door-steps of the buildings.
- Special seating arrangements are made for differently abled students during examinations.
- College has ensured the provisions of step-less system for easy access to buildings, adequate door width for wheel chairs entry and accessible toilets.

3. Other States/Overseas students

- Admission is given to students from other states especially from Lakshadweep as per the university guidelines. One seat per programme is reserved for Lakshadweep students.
- There are no students admitted in overseas category in the last five years.
- Children of NRIs are also given admission without charging any additional fee.

Table 5.6: No. of Lakshadweep students

Year	2011-12	2012-13	2013-14	2014-15	2015-16
No. of Lakshadweep students	2	3	2	2	2

4. Students to participate in various competitions: National and International

The students participating in various competitions are encouraged by the institution. Deserving students are selected and deputed to participate in national conferences and state level programmes, and are given attendance and financial assistance. Students are also encouraged to participate in paper presentations in UGC sponsored National Seminars and Regional Seminars.

5. Medical assistance to students: health centre, health insurance etc.

- Student's Group Personal Accident Insurance Scheme with a medical extension, covering medical expenses arising due to accidents up to R. 25,000/- and death claim up to R.1,00,000/- to regular students under the university of Kerala at a Premium @

Rs. 25/- per student is provided to all students of our college as well.

- Health Club functions in the college, and conducts many awareness campaigns and health camps.
- Women's Cell of our College organised a Cancer Awareness Session as part of its activities. A class on Ayurveda and regular lectures on hygiene and good habits were also conducted. The women's waiting room has toilets and incinerator facility for girl students.
- A one day Ayurveda health camp was held in connection with Kottakkal Aryavaidyasala. Many doctors gave awareness lectures and conducted free check up for the students of the college and the general public.
- Blood donation camps are organised by National Service Scheme every year. Importance of blood donation is conveyed through informative sessions organised along with the camp.
- A four day training camp was held jointly by the WSC, NSS and NCC, where girl students were trained in self defence techniques by the State Women's Police personnel under the Nirbhaya campaign..
- Yoga sessions are provided by NSS, NCC and WSC, creating awareness about the importance of health. NCC conducted Yoga session as part of World Yoga Day.
- A state of the art gymnasium facility is provided to the students.
- Proper arrangement of drinking water is provided in the campus (R.O. purified drinking water) at different locations. All departments are provided with RO water purifiers as well.
- First Aid facility is available in all the departments for the treatment of the sick/injured.

6. Organizing coaching classes for competitive exams

PG department of Commerce in association with Career Guidance and Placement Cell offers 140 hours of competitive exams coaching classes focussing primarily on bank clerical/ PO examinations. More than 100 students have already joined the course in the first three years/ batches of coaching classes. The course also equips the students to prepare for competitive examinations like CAT/MAT/CMAT etc. The course content is developed taking into consideration the aptitude, logical reasoning, English language and communication skills, General Knowledge and related areas which are part of all competitive examinations. The classes are conducted on Saturdays and Public holidays without affecting the regular academic sessions of the college.

7. Skill development (Spoken English, computer literacy, etc.,)

- Career Guidance and Personality Development programmes are conducted for final year students by the Career Guidance and Placement Cell.
- Coaching for Bank Tests, UGC-NET/JRF examinations are also offered.
- Coaching for ICWA was offered by Department of Commerce in association with ICWA Alappuzha Chapter. SD College was the centre for ICWA coaching in Alappuzha.
- Intensive coaching is given to shortlisted candidates for appearing in the campus placement drive of scheduled banks. Mock interviews, group discussions and soft-skill development programmes are conducted regularly for passing out batches.
- The college has entered into an MoU with the Department of Higher Education, Govt. of Kerala for offering skill development programmes under the ASAP in which special training in Communicative English and use of ICT resources are

provided. The college, which is a training partner in the ASAP, conducts a twenty one day residential programme for students of our college and other colleges.

- The College management has executed an MoU with KELTRON, Govt. of Kerala for offering training programmes in computer networking and software development.
 - Coaching classes are conducted in many departments to equip the students to appear for various competitive examinations.
 - As part of providing computer literacy, workshops were conducted on Microsoft Excel for undergraduate and Post graduate students.
 - One day Workshop on Microsoft Word and Power Point was conducted for enabling the students to prepare their own project reports and making ICT enabled presentations as part of their curriculum.
 - Training was provided on Professional etiquettes and body language to improve their performance in Job interviews as well as professional careers.
 - Computers with Internet connectivity are installed in all departments and the General library for enabling students to carry out their project work.
 - Departmental associations also help students to develop their talents and enable them to develop creative and organising skills through Intra-departmental, Inter-departmental and Inter Collegiate programmes.
 - The General Library has a rich variety of books on Personality Development and Leadership, competitive examinations, preparatory material etc. funded by UGC for Career Guidance and Placement Cell.
 - General Knowledge quiz is conducted every year on an inter-departmental basis.
- 8. Support for “slow learners”**
- Student Support Programme, an initiative of the Government of Kerala has been successfully implemented in our college. Fifteen hours of classes per department is provided in a subject where students need additional coaching or support. 75 hours of contact classes are provided. The Government has given a financial support of Rs. 61,000 for one year. English, Physics, Commerce, Economics and Mathematics departments have implemented the same with great success. Additional materials/notes are provided to the students as part of the programme.
 - Students with low attention span/grasping power, students who have studied in non- English-medium schools and slow learners are identified at the beginning of the session.
 - The UGC assistance for remedial coaching is fully utilized by providing remedial coaching, especially for students from SC/ST and other weaker sections.
 - Services of guest lecturers are also utilized to give remedial coaching to slow learners.
 - Issues of slow learners are discussed with their parents also during Department level PTA meetings, and they are given special care and counselling under the tutorial system.

Table 5.7: Details of Remedial Coaching

Year	2011-12	2012-13	2013-14	2014-15	2015-16
No. of Session	130	135	138	130	135
No. of students	116	118	110	120	122
Amount Utilized	18,500	12, 000	34, 000	28, 000	65000

9. Exposure of students to other institutions of higher learning/corporate houses, etc.

- **Walk With a Scholar (WWS)**, a mentoring programme of Government of Kerala, whereby a select set of bright students from all departments are given an opportunity to interact with academicians from different parts of the state and visit Institutes of high repute like IIMs as part of external mentoring. 5 faculty members from different departments also take up the role of internal mentors and provide guidance and support.
- Industrialists, educationists, scientists, doctors, artists, entrepreneurs etc. are invited to the campus and opportunities are provided to students to interact with them. Students are given an opportunity to interact with these external mentors.
- PG students are encouraged to attend UGC sponsored National Seminars, regional seminars, Open Defences of Ph.D. theses etc.
- The College encourages students to interact with other institutions through competitions, fests, conferences and seminars.
- UG students are provided opportunity to gain knowledge about the various industries and their job prospects through career planning sessions.
- PG students are encouraged to collaborate in Joint Research Programmes with institutes of repute. 13 Post Graduate students were involved in an international study titled "A multi-country study on the Labour Supply Chain", covering UAE, Nepal and India in a collaborative research with IIM, Ahmedabad.

10. Publication of student magazines

The College publishes its annual magazine utilizing the Magazine Fund of the College Union collected at the time of admission. It provides an opportunity for the students to exhibit their creative skills. Students come out with a range of creative products in terms of genres as well as language. The Student Editor of the college magazine is elected in a democratic way along with the election to the College Students' Council. The College Magazine is printed under the supervision of an Editorial Board consisting of staff and students. The staff coordinators help students in mobilizing funds through advertisements and sponsorships. All the major sections of the magazine have their Staff Editors as well as the Student Editors.

- Under the auspices of the creative forum of NSS, a Manuscript Magazine is published every year at the completion of the Annual Camp. The NSS unit has also brought out a magazine of its activities from the date of its inception till date.
- Many departments have come out with manuscripts funded and developed at their own level.
- PG Department of Malayalam has developed a magazine based on the project works of the PG students, and one with contributions from students as well as faculty members.
- Students publish e-news letter for the whole college under the guidance of IQAC.
- A magazine titled "35 and 1 Hope" was brought out by the Ist Year Communicative English batch of 2012-13 which included articles, poetry, stories, pictures and puzzles contributed by the students of the class. It was edited under the guidance of Sri. D Ramachandran Nair and the Chief Editor was Ms. Karthika Nair.
- In 2015-16, a magazine titled "A Tribute to the Emperor of Dreams" was

produced by the 1st year Communicative English class to commemorate Dr. A. P. J. Abdul Kalam. The magazine, showcasing the budding talents of the class, was released by the acclaimed author, Sri. Benyamin at the inaugural ceremony of the Golden Jubilee Celebrations, Department of English. The staff editor was Prof. D. Ramachandran Nair and the student Chief Editor was Aiswarya R.S.

- Newsletters covering the important events of the department and achievements of students were brought out during the academic years, 2014-15 and 2015-16 by the IInd year Communicative English Students of the respective years. The production of the newsletters was guided by Smt. Karthika. R and Kum. Parvathy R respectively. The newsletters also included the contributions of students.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

An Entrepreneurial Development Club was formed in the college in August 2013 with the following objectives:

1. To sensitise students on the real economic and industrial issues of our state and
2. To inculcate entrepreneurial culture in students by making them aware of the unlimited development potential in the area of industry.

Following activities were undertaken by ED Club:

1. Fourteen students accompanied by the co-ordinator, Dr. Ushakumari.L participated in the one day workshop on “Innovation led and Technology Intensive Entrepreneurship – The Way Ahead for Kerala” organised by Kerala Financial Corporation, at Mascot Hotel, Thiruvananthapuram on 3rd December 2013 as part of its Diamond Jubilee Celebration.
2. The inauguration of the registered EDC was made on 26th March 2014 in the Golden Jubilee Auditorium of the college, Shri. Joseph Palathra (an alumnus of the college).
3. On 20.08.2014, EDC hosted a programme for the EDC members arranged by Young Entrepreneurship Scheme (YES) of the Start up Village in which Mr. James Joseph addressed the gathering.
4. A marketing programme was arranged in the college to augment the entrepreneurship skill of students for marketing from 03.09.2014 to 05.09.2014. Three student teams managed the three sections of the exhibition- cum -sale of handloom textile items and foodstuff, in connection with Onam celebrations.
5. On 14.01.2014, a one-day workshop was organised to promote Handloom Industries in collaboration with District Industries Centre, Alappuzha and the Directorate of Handloom and Textile Industries. The four components of the workshop were:
 - a. An exhibition of various Handloom Textile Groups
 - b. A fashion show for students and staff
 - c. An extempore elocution competition on “The need for promoting Handlooms” for UG students.
 - d. A technical session by Prof. Sukumaran Nair, Indian Institute of Handloom Technology, Salem
6. On 24.01.2015, a workshop was organised for training in soap making to EDC students, led by Shri. Shaji of Sasthra Sahithya Parishad.
7. ED Club has plans to start a note book manufacturing unit fully run by student members of the club which will cater to the note book requirements of the college as well as its sister institutions. The club has submitted a proposal to Government of Kerala for getting financial support under the Entrepreneurship Development programme.

8. YES (Young Entrepreneurs Summit)- Kerala State Industrial Development Corporation on behalf of the Industries Department of Kerala organised a Young Entrepreneurs Summit at Kochi in 2015. A team consisting of a teacher and 10 students from the ED Club participated in the event, which included sessions on Angel broking and competitions.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

- The institution is committed to encourage students to participate in various extracurricular and co-curricular activities. All activities are monitored by the departments and the staff advisor.
- The students are given special internal exams, delayed submission dates, attendance, and on-duty certificates, for their participation in various cultural and sports events organised at State and National level. .
- Proper motivation and support are given to students who participate and perform in various cultural and sports activities by teachers.
- All regional/ University /State/ National and International level achievements are duly honoured.
- Sufficient practice equipments and sports kits are purchased on yearly basis by the Department of Physical Education.
- Talented students with high performance in sports and games are admitted through sports quota in UG and PG programme as per rules.
- Sports Training kit and uniform are also provided to all the team members of the college.
- The PTA of the college also extends financial support for the needy sportspersons and has instituted scholarships for excellence in sports.
- Kerala State Sports Council supports the college through sponsoring young athletes and extending the service of experienced and qualified coaches in various sports items for imparting training to the budding stars.

The following students from our College bagged medals in All India Inter-University Championships & National Championships.

Table 5.8
Medals in All India Interuniversity Championships & National Championships

Name	Achievements	Year
Aravind S	6 Gold medals in All India Inter University Canoeing and Kayaking Championship	2011-12
Aneesh Kumar S	3 Gold and 1 Silver in All India Inter University Canoeing and Kayaking Championship	2011-12
Manu P G	1 Silver in All India Inter University Canoeing and Kayaking Championship	2011-12
Vibin	3 Gold and 1 Silver in All India Inter University Canoeing and Kayaking Championship	2011-12
	Gold medal in All India I/U Canoeing and Kayaking Championship	2012-13
Sanoop Sathyan	2 Gold and 1 Silver in All India Inter University Canoeing and Kayaking Championship	2011-12
	Gold Medal in All India Inter University Canoeing and Kayaking Championship	2012-13

Sujith S	1 Silver in All India Inter University Canoeing and Kayaking Championship Gold medal in All India I/U Canoeing and Kayaking Championship	2011-12 2012-13
Nithya T A	1 Gold in All India Inter University Canoeing and Kayaking Championship 5 Gold Medals and 1 Silver Medal in All India I/U Canoeing and Kayaking Championship 6 Gold medals in All India Inter University Canoeing and Kayaking championship Silver Medal in National Games Canoeing and Kayaking Championship	2011-12 2012-13 2013-14 2014-15
Pramod T	Gold medal in All India I/U Canoeing and Kayaking Championship	2012-13
Arun P. S	National Games Bronze medal in Rowing	2014-15
Vipin Jayaprakash	3 rd in All India Inter University Kayaking Championship	2014-15
Anijith	3 rd place in All India Inter University Kayaking Championship	2014-15

Table 5.9**Students who Represented Kerala University in All India Inter University Championships**

Cricket		
Sl No	Name	Year
1	Rahul P	2012-13, 2013-14
2	Haris Hassan	2013-14
3	Balu B	2013-14
4	Rineesh R Kumar	2013-14, 2014-15
5	Balu B	2014-15
6	Nilul lal	2015-16
7	Fazeel Shaji	2015-16
8	Bhupeender	2015-16
Athletics		
Sl No	Name	Year
1	Sreejith Mon K	2011-12
2	Sajana Rajan	2011-12
3	Aryanath A	2012-13
4	Akhil P H	2015-16
Table Tennis		
Sl No	Name	Year
1	Shikha Jacob	2014-15, 2015-16
2	Joshua J Mathew	2015-16
Weight Lifting & Power Lifting and Body Physique		
Sl No	Name	Year
1	Unni K	2011-12
2	Anju Krishna	2011-12
3	Binu Baby	2012-13
4	Arjun B	2012-13
5	Nandu K C	2013-14
6	Muhammed Riswan	2014-15
7	Kannan Vijayan	2014-15
8	Jijo Joseph	2014-15
9	Joel Michael Decls	2014-15
10	Kiran B Thundil	2015-16

Ball Badminton		
Sl No	Name	Year
1	Sandra Francis	2015-16
Canoeing, Kayaking & Rowing		
Sl No	Name	Year
1	Xavier Mathew	2012-13
2	Sujith S	2013-14
3	Pramod T	2013-14
4	Binu Baby	2013-14
5	Sanoop Sathyan	2013-14
6	Akhil kumar C S	2013-14, 14-15, 15-16
7	Subeesh S	2013-14, 14-15, 15-16
8	Sujil P Susheelan	2014-15
9	Vinu Prasad K O	2014-15, 15-16
10	Sabin S	2015-16
11	Vishnu P	2015-16
12	Anijith A	2015-16
13	Vipin Jayaprakash	2015-16
14	Sanchu Antony	2015-16
15	Albin Sebastain	2015-16
16	Adarsh P V	2015-16

Table 5.10: No. of SD College students who represented college/ University/ State/ National for various sports and games

Name of the Sport/Game	2011-12	2012-13	2013-14	2014-15	2015-16
Football	14	-	-	-	16
Cricket	10	17	4	16	16
Basket ball	11	9	-	-	-
Power Lifting/ Weight Lifting and Body Physique Men	3	2	4	7	6
Power Lifting Women	1	-	-	-	2
Best Physique	-	-	-	-	3
Athletics Men	2	-	-	-	13
Athletics Women	4	1	-	-	5
Canoeing, Kayaking and Rowing Men	6	7	6	8	10
Canoeing, Kayaking and Rowing Women	1	1	1	1	
Handball	-	10	-	1	12
Kabaddi	-	8	-	11	12
Chess	-	4	-	-	-
Volley Ball	-	-	-	10	11
Table Tennis Men	-	-	-	1	5
Table Tennis Women	-	-	-	-	1
Ball Badminton	-	-	-	6	-
Ball Badminton Women	-	-	-	-	5
Shuttle Badminton Men	-	-	-	-	7
Shuttle Badminton Women	-	-	-	-	3
Hockey	-	-	-	-	2
Taekwondo Women	-	-	-	-	2
Tchouck Ball	-	-	-	-	1
TOTAL	52	59	15	61	132

➤ **THE LITERARY CLUB**

The Literary Club in S.D. College works to develop and foster the literary talents of students. The activities of the students are directed towards attaining certain objectives like introducing the students to new vistas of language and literature, enhancing their creative thinking and writing through group discussions and interactive sessions, and developing different perspectives of appreciation for literature. Dr. Bindu Nair, Associate Professor in English was the coordinator from 2011-2014, and the current coordinator is Ms. Neetha Prasad, Assistant Professor in English.

The Literary Club has conducted a variety of programmes and activities since its inception in 2000.

- Dr. S. Nataraja Iyer delivered lectures on a variety of topics including "The Powerful Heroine in Padmarajan's Films" and "The Translations of VKN's novels".
- The club has encouraged students to take part in various competitions according to their talent and aptitude.
- Anupama J. (Department of English) secured first prize in the essay competition conducted by Coir Board, Kerala
- Sayooj Mohan (Department of Mathematics) won second prize in the essay competition conducted by Vaikom Management Association.
- Anand R., Anupama J., Chinnu George and Pooja Prasad, students of III BA English won prizes in the literary competitions conducted in S. D. College.
- Anoop Viswanathan (Department of Mathematics) took part in many literary competitions and also made a short film "Ameer" on the issue of terrorism. The movie was screened in S. D. College in March 2014.
- A bulletin board was placed inside the college campus, thereby offering the students a platform to showcase their literary talents. The members of the literary club updated and maintained the bulletin board. This activity encouraged the student's creativity.
- Poetry, short story and article presentations were organised by the literary club. These creations were then published in the college magazine and newsletters.
- Group discussions were conducted on a wide variety of topics. The discussions helped the students to bond with each other, share their ideas and voice their opinions
- "Know the Writer and the Book" sessions were organised. These sessions encouraged the students to know more about great writers and works. Reviews of books were also presented to get the students acquainted with contemporary literature.

➤ **PLANNING FORUM**

The Planning Commission initiated the creation of Planning Forum with the objective of awareness generation among students about economic development of the nation via planning process and for ensuring their participation in the same in 1955. The formation of Planning Forum in S D College, Alappuzha may be traced back to 1960's. The current coordinator is Mr. V.C. Asokan, Associate Professor in Economics.

As per the requirements of the new CBCSS the degree students have to undergo a compulsory extension activity and this provided the Planning Forum a new momentum. Apart from acquainting the students with the changing economic scenario, the planning forum recently made attempts to organize activities like debates, quiz competition and essay contests to achieve the overall development of students and to build students

capacity. It gives prime importance to the enrichment of the analytical, communicative and organizational skills of the student community. Throughout the programme, efforts were made to bring the student members to the forefront, and give them platform to express and execute their notions. The Planning Forum conducts its general meetings on Fridays on a regular basis during the noon break and special programmes on Saturdays.

➤ **NATIONAL CADET CORPS (NCC)**

The SD College NCC unit which was started in 1956 has crossed 60 years of its excellence in 2015. The unit which began with a strength of 60 cadets under the able leadership of Major P.Rajashekharan Nair, passed through several able hands and in due course developed into 2 companies of girls and boys with a total strength of 160 each. All through these years NCC has been an indefatigable and indispensable accomplice in the expansion and progress of our college. It has on its part always displayed rare virtues of “Unity and Discipline” and is a voluntary force with the institution in any emergency. The unit has played a major role in building national spirit, self-confidence, leadership and personality in young cadets. The NCC Unit can proudly claim that we have appreciable number of cadets who have joined the defence forces, central state forces and other major fields. So far the unit has produced 18 commissioned officers and from 2012 to till date around 15 Cadets have joined the defence force as NCO’s and are doing their valuable service in different parts of the country. The NCC unit of the college has an excellent past record. The present Officers are Lt. K. Narayanan and Lt. V. Anupama.

The NCC unit has always been on the forefront in subscribing maximum number of cadets for representing the state in the RD parade at New Delhi. Since 1991 till date, 54 cadets have participated in the Republic Day Parade. The list of RD cadets since 2012 are as shown below:

Table 5.11: Participation in Republic Day Parades

Year	Republic Day Cadets
2012	Abhijith, Abhilash
2013	Jerin.K.George, Anil Kumar
2014	Arun Nath, Sivaprasad, Vivek.R
2015	Nanditha Dev

Our cadets have also represented the state in several other National Camps held in different parts of the country and is therefore worth mentioning.

Table 5.12: Details of National Camps attended by NCC cadets

Name of the camp	Number of Cadets
TSC	3
NIC	53
Army attachment camp	29
Trekking camp	8
IMA,SSB,OTA	3
ALC,BLC	5
National Games	1 (Hockey)
Para Gliding/Para Sailing	5/4
Adventure Expo/Cycle expedition	3/2
Total	116

Apart from this a large number of cadets have actively participated in several state level camps that are held every year in different parts of Kerala.

Table 5.13: No. of cadets attended State Camps

Name of the Camp	Number of Cadets
CATC/ATC	800
IBC/IGC	170
Total	970

Every year the 'B' Certificate and 'C' Certificate exams are held at the group level during January/February, which is attended by maximum number of cadets. The year wise list is as follows:

Table 5.14: Number of Cadets Appeared for 'B' and 'C' Certificate Exams

Year	'B' Certificate	'C' Certificate
2011	78	58
2012	61	59
2013	70	54
2014	6	50
2015	50	5
Total	319	271

➤ **National Service Scheme (N.S.S.)**

NSS unit was started in S.D College in the year 1971. There is a college level Advisory Committee with the Principal as the chairman to advise and monitor the activities of NSS. "Youth for Eternal Development", "Youth for National Welfare and National Integration", "Healthy Youth for Healthy India", "Youth for Environmental Enrichment", are some of the themes of NSS. Beholding the true spirit of social service, the NSS units of S.D College successfully completed the programmes proposed for these years. The current Programme Officer is Mr. Vineeth Chandra K.S., Assistant Prof in Commerce, and Mrs. Sreeranjini, Asst. Prof. in Botany.

Realising the importance of various National and International Days, the S.D College NSS unit has been observing them by conducting various programmes inside and outside the campus. Republic Day, Environment Day, Independence Day, Teachers Day, NSS Day, National Blood Donation Day, Gandhi Jayanthi, Aids Day, World Disabled Day, Palliative Care Day are some of the days observed by our unit. In times of natural calamities such as Kuttanad Flood and Chennai Flood, our unit immediately intervened in the issue to provide emergency assistance to the people in need. On days such as the Independence Day, we provide services such as visiting old age homes and special schools in order to help them and to satisfy their basic needs. In accordance with the NSS curriculum the S.D College NSS unit has adopted a village called the Moopan's colony and are continuously carrying out welfare activities. Some of our most excellent activities over the past five years include Food distribution, donation of plates to a L.P school, donation of books to a U.P school, tube light and equipment distribution, wheel chair donation and dress bank. Conducts regular medical camps, conduction of energy conservation survey as part of socio-economic health camp. The S.D College NSS unit conducts many blood donation camp every year and the participation went up to about 200 in the past year.

The Kiran Memorial Elocution Competition and Aswathi Memorial Quiz competition are two programmes that are regularly conducted in memory of our volunteers. The "Sweep out flex: Save Alappuzha" campaign was conducted in order to demote the use of flex in the city. In the past year when National Games was conducted in Kerala, the S.D College NSS volunteers became a part of the occasion and

volunteered for the same. Anna Swaraj Agriculture Programme, Rail Swatchatha and Anti-raging campaign are some other programmes conducted by our unit.

The unit undertakes and performs all the regular and special activities such as Nature Camp, Leadership Camp, Pre RD Camp, Orientation Camp, National Integration Camp, Seven Day Camp and National Adventure Camp. The unit conducts more than 70 programmes every year, for which it has received many awards from the Kerala University, such as the special award for the best NSS unit, the best volunteer and for best NSS Programme Officer. Our unit releases a magazine every year showing the achievements of our unit and the literary skills of our volunteers.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE/ CAT/ GRE/ TOFEL/ GMAT/ Central/ State services, Defence, Civil Services, etc.

- The college has a Career Guidance and Placement Cell for providing support and guidance to the students in preparing for competitive examinations.
- Students who appear for various competitive examinations are helped by teachers.
- The college library provides a separate section for books on competitive examinations.
- The college takes adequate measures to equip students for civil services exams, and UGC-CSIR-NET/SET exams providing them with adequate reading material.
- Coaching for Bank Tests, UGC NET/JRF exam are also offered.
- Coaching for ICWA was offered by Department of Commerce in association ICWA Alappuzha Chapter. SD College was the centre for ICWA coaching in Alappuzha.

Table 5.15: No. of Students Qualified in NET/JRF/CSIR/SET/GATE

Exam	2011-12	2012-13	2013-14	2014-15	2015-16
SET/UGC NET/CSIR	7	8	8	6	8
GATE	-	-	-	2	2

5.1.8 What type of counselling services are made available to the students (academic, Personal, career, psycho-social etc.)

Academic and Personal Counselling

- Tutors/mentors are assigned for each UG and PG batch to closely monitor the students and provide them necessary academic counselling.
- Besides, the students are provided personal counselling by trained teacher - counsellors.

Career Counselling and Guidance:

- There is an active Career Guidance and Placement Cell functioning in the college which provides counselling in all career related matters. It provides training in group discussions, interviews, communication skills, etc.
- Programme for career guidance and personality development is conducted for all final year students by the CGPC every year.
- Coaching for Bank Tests and UGC NET/JRF exam are also offered at the college level.
- Campus Recruitment Drives are organised every year.
- The ASAP ensures that many of our students become Skilled Executives with career prospects.

Personal and Psycho-Social Counselling Service:

Yoga & Counselling Centre

A Yoga and Counselling Centre is functioning in the college, and also in the Women's Hostel. The Counsellor is Dr. Jubily Navaprabha, Associate Professor in Commerce. She has to her credit a Master Degree in Applied Psychology and a Post Graduate Diploma in Guidance and Counselling. She is also a certified Yoga Trainer. The basic motto of Guidance and Counselling is to help those students who need or seek assistance in the physical, mental, emotional, social and the behavioural aspects of life. Since the counsellor is internal, very few students in the campus turn up for counselling. In 2011-12 (15 students), in 2012-13(14), in 2013-14(17), in 2014-15(15), and in 2015 6 students have gone through guidance and counselling process in the campus.

WOMEN'S STUDIES CELL (WSC):

The Women's Studies Cell of S.D. College, Alappuzha, has been functioning for many years now, as per the guidelines of the Centre for Women's Studies of the University of Kerala. The Cell undertakes the responsibility of overseeing the welfare of female students, as well as ensuring gender equality and gender justice to them. Under the patronage of the Principal, an advisory body comprising the women faculty of the College undertake the responsibility of the Cell. The Cell is headed by a Coordinator, and Executive members from each teaching department. The term of a Coordinator is three years. The current Coordinator is Dr.Bindu Nair of the English Department. All female students and all women faculty are members of the Women's Studies Cell, and participate in all its activities. A nominal fee is collected from girl students at the time of admission for the Women's Cell, which is used for the conduct of programmes. A number of girl students are enrolled as student functionaries of the WSC every year, and they participate actively in the activities and welfare programmes of the Cell under the guidance of the faculty.

The WSC conducts many programmes and activities including awareness lectures on various topics like women's empowerment, legal awareness, gender discrimination, health and hygiene etc. Motivational and interactive sessions on personality development, workshops, fests and International Women's Day celebrations are also held. It also works for the welfare of girl students in the campus, providing facilities like the women's resting room and incinerator in the toilet. These activities are conducted with the intention of fulfilling the objectives of the Women's Studies Centre of the University, which has envisaged a program designed to raise awareness about issues related to gender justice and equality, leading to the upliftment and empowerment of women in India. As nearly 70% of the students of this College are female, the Cell has a significant role to play in realising this goal. The Co-ordinator, the women faculty and girl students of the College work together to promote meaningful discussions and relevant action in issues related to gender discrimination and gender justice.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Yes, the College has a fully functional Career Guidance and Placement Cell (CGPC). The Cell is a dynamic body functioning to provide career advice, training and placement drives for the students. The Cell works under the guidance of a faculty coordinator, currently Mr. M. Krishnan, Assistant Professor in Commerce, who is

supported by Student Placement Secretary and representatives. The Cell provides sufficient material through the General library by subscribing to various news papers which provide information about career openings in industries. The Cell does not limit its goal to just finding jobs for students, but aims to help students to make informed choices regarding careers by organizing Career Guidance sessions and seminars with expert resource persons. It facilitates a large number of placements by offering training programmes for every aspect of the placement process. It serves as a liaison between students and potential employers and organizes campus recruitment by highly-reputed companies.

Table 5.16
List of Training Programmes conducted over the years

Area of Training	Year	Resource Person
Group Discussion Training	2012-13	Dr. K P Ramachandran Pillai , Associate Professor, Department of Commerce
Interview Tips	2012-13	D Ramachandran Nair, Assistant Professor, Dept of English, SD College
GD & Interview Skills	2012-13	Krishnan M, Assistant Professor, Department of Commerce
Seminar on Banking Industry	2012-13	Dr. K P Ramachandran Pillai , Associate Professor, Department of Commerce & Krishnan M, Assistant Professor, Department of Commerce
Professional Etiquettes & Body Language	2012-13	D Ramachandran Nair, Assistant Professor, Dept of English, SD College
How to perform in a Group Discussion	2013-14	Prof. Elizabeth Dominic, Assistant Professor, St. Gitts Institute of Management, Kottayam
Personal Interview Workshop	2013-14	Krishnan M, Assistant Professor, Department of Commerce
Group Discussion, Interview skills and body language	2014-15	Prof. Sampath Kumar, Happy Valley Business School, Coimbatore
Group Discussion and Interview skills	2014-15	Mr. Nigel George, Educomp Raffles
Group Discussion and Interview skills	2014-15	Dr. Jacob George and Prof. Elizabeth Dominic
Two day Soft Skills Workshop	2015-16	Prof. Praseeda Varma, Dr. Leena Pai, Prof. D Ramachandran (English Department)
One day Microsoft Excel Workshop	2015-16	Prof. Nisa James & Prof. Cyriac Jose, Saintgits Institute of Management, Kottayam
Two Day Microsoft Excel Workshop	2015-16	Prof. Aby Tellas, Assistant Professor, Loyola College, Thiruvananthapuram
Career Prospects in Aviation Industry	2015-16	Abhilash Simon, CMD, Avion Aviation Academy & Priyanka M, Centre Head, Avion Aviation Academy
Career Prospects in Logistics & Shipping Industry	2015-16	Tito Antony, Manager & Academic Coordinator, Indian Institute of Logistics
Career Planning Session	2015-16	Dr. Rajan Varghese, Director, Marthoma College of Management and Technology
Interview Tips	2015-16	Madhu Bhaskar
Role of Higher Education for crafting Career Profile	2015-16	Institute of Management and Technology, Punnapra

Table 5.17
List of placement drives (both in house and at other locations)

Name of the Organisation	Year	No of students Applied	No of students participated	No of students Selected
South Indian Bank	2012-13	106	94	6
South Indian Bank	2013-14	125	105	7
Federal Bank	2013	110	94	4
SD Pharmacy Group Company	2013	15	0	0
SD Pharmacy- Botanist	2013	3	1	1
Foreign Company- Alumni	2013	3		
WIPRO	2013	20	1	1
Sun Pharma	2013	3	0	0
HCL Pooled drive	2014-15	300	300	1
ICICI Bank at Kristu Jyothi Campus	2014-15			6
ICICI drive at SD College Campus	2014-15	35	35	11
Catholic Syrian Bank	2014-15	150	150	0

5.1.10 Does the institution have a Student Grievance Redressal Cell? If yes, list (if any) the grievances reported and redressed during the last four years.

The Students Grievance Cell looks into the complaints and grievances lodged by students. The Grievance Cell is also empowered to look into matters of harassment and instances creating mental agony. Anyone with a genuine and honest grievance may approach the Officer (Faculty in charge of the cell) in person. In case the person is not willing to appear in self, grievances may be dropped in the Complaint Box provided at every department. The Grievance cell proves its worth by preventing the students from inciting against other students, teachers and/or college on the whole. It has also been successful in improving cordial relation between the staff and students. As per the records there have been complaints of aggression, bullying and moderate disturbances during the past four years. The Officer and members took note of all such issues and rendered justice to the aggrieved parties, and settled issues amicably.

5.1.11. What are the institutional provisions for resolving issues pertaining to sexual harassment?

The college has a sound campus policy which aims to eliminate sexual harassment and its devastating consequences. The college executes this function through the Prevention of Sexual Harassment Cell. Action is taken to contain discriminatory jokes, comments or anything that is slanderous and abusive. Any victim (whose identity would be kept confidential) may complain to the Officer (Faculty in charge of the cell) in writing.. The cell has a policy of punishing the culprits identified and if required handing them over to the law enforcement authorities. This acts as a corollary in preventing others from indulging in such pursuits.

5.1.12. Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

The college staunchly opposes the menace of ragging. Complying with the directives of the Honourable Supreme Court of India, the College has formed Anti-ragging committees to oversee and prevent such occurrences. The college also has a Discipline Committee to support the Cell. Both the committees comprise of faculty members from all the departments.

The first year students who join the UG and PG programmes are made aware of their right to complain to the cell if they experience any such instances during the Induction Program. Printed materials on the law related to ragging are distributed to all the students at the start of every academic year. Knowledge about the law enables the students to abstain from ragging. Law enforcement authorities are invited as resource persons every year to give lectures about such issues. Because of the strong functioning of the discipline committee and anti ragging committee, we have not received any complaint related to ragging in the last five years.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

The institution is working towards ensuring social justice through the various student welfare schemes. The Induction Program clearly outlines the welfare schemes available to the students. There are various welfare schemes such as SC/ST welfare fund, KPCR Commission Fee Concession, welfare fund for sportspersons, etc. Students are made aware of the various scholarships, freships and endowments by the departments as well as the management. The college cooperative store makes available all books and other stationery items, photocopy and printing facility on discount rates to students. The library allows free internet browsing and other e-learning resources to the students. The college canteen gives meals and other items at reduced rates to the students. The playground of the college and other facilities for sports and games are made available to the entire student community. The students can avail of counselling services from trained counsellors within the campus. Yoga training, sessions on leadership, personality development, self defence and other socially relevant themes are provided through NCC, NSS WSC etc. The Women's studies Cell (WSC) looks after the welfare of girl students; a waiting room exclusively for girls with toilets and incinerator facility is also provided. The Counselling Centre gives personal counselling to those who seek it. The Career Guidance and Placement Cell provide career information, training and placement drives for students to meet their career goals. Each department has functional associations which encourage the holistic development of the students. Heath Club and gymnasium facilities are available within the campus. Existence of various clubs also is a big boost in the development of the extracurricular skills of the students.

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

The college has a registered Alumni since 1986 with the registration number **A/353/86**, named "S.D. College Old Students Association". A student who has completed one academic year in the college is eligible for membership of the association. The SD College Old Students Association has actively organised educational discourses, seminars, memorial lectures, quiz programmes, debates and discussions, get togethers, etc. It also assisted the college in conducting various academic programmes as well as sports activities utilizing the expertise of the members. The association has also done many charitable and philanthropic services and organised a rich variety of programmes aimed at the integral growth of the college.

This year the association was renamed as **SDCAA**, expanded as "Sanathana Dharma College Alumni Association" and the old registration was renewed with the registration number **ALP/TC/142/2016**. The organisation works under the provisions of the Travancore–Cochin Literary, Scientific and Charitable Societies Registration Act, 1955. In order to ensure its smooth functioning, the old association was divided into 11

department and 1 NCC alumni associations. These 12 alumni were united and the new alumni namely SDCAA was formed and registered in 2016. Thus the newly registered alumnus is acting as an apex body of different alumni existing in the college. The general body of the SDCAA consists of the president, secretary and some nominated office bearers of different department alumni. The executive committee consists of 11 governing body members acting as office bearers of the association.

Table 5.18**The office bearers of the SDCAA**

President S.Bhaskaran Pillai	Joint President Jacob J.Arakal	Joint President Dr. C. Amrutha
Secretary P.Venkitarama Iyer	Joint Secretary Dr.Blessy V	Joint Secretary Jacob John
Treasurer Manoj Kumar	Co-ordinator Dr. R.Unnikrishnan	Member Prof.Sukumara Menon
Member Advocate Abdul Rasak	Member Sri Jayasoorya	

The Functioning of SDCAA

- The SDCAA celebrates Alumni Day on the second Sunday of every June in commemoration of Founders Day which falls on 20th June.
- Each department has its own independently functioning Alumni Association. Thereby the SDCAA ensures a de-centralised way of functioning.
- The SDCAA supports the College, by involving all the stakeholders in mobilizing resources for betterment of the infrastructural and other supporting facilities.
- It encourages the bonding between the various stakeholders of the institution, and organizes meets and get togethers to foster good and productive linkages with societal organisations, institutions and industry.

The Functioning of Department Alumni

- Each Department Alumni celebrates its Alumni Day every year, with family meets and cultural events.
- Most Alumni have instituted endowment prizes and scholarships to students.
- Every year the Economics department Alumni (EOSA –Economics Old Students Association) publishes a magazine. This year the name of their magazine is “Smrithi Pushpam –EOSA Smaranika 2016”
- In the year 2015 the Commerce Department Alumni conducted a Mega Meet namely “Mighty Commerce Meet 2015”. Nearly 2000 old students from the Commerce department participated in the memorable event.
- The History Department Alumni also publishes a Memoir every year. They conduct a mega family meet on the 2nd Sunday of February every year. In the year 2016, they conducted the Mega Meet in the Nehru Pavilion, Punnamada Lake. Thousands of old students participated in the meet. A celebrity of History Department, Shri Alleppey Ashraf, presented a full day programme.
- The Physics Department Alumni constructed the MSc Block. The department alumni provided infrastructure by ceiling 2 Laboratories and 2 class rooms. They also helped in furnishing the department.
- The English department Alumni conducts meets every year with endowment awards, publishing of a memoir, cultural events, and family get together.

Table 5.19: Well known Alumni of our college (Selected Ones Only)

SL.No.	Name	Designation
1	Padmasree Prof (Dr.) N.R Madhava Menon	Member, National Law Commission Founder director, National Law School, Bangalore
2	S.D. Shibulal	Former MD, Infosys
3	P.J Joseph	Arjuna Award Winner
4	Nedumudy Venu	Film Artist
5	Prof. M.K. Sanu	Academician and Writer
6	Fazil	Film Director
7	John B George	Former DGP Hariana
8	Boban Kunchacko	Film Artist
9	R.N Ravi	Colonel, Indian Army
10	Sreekumaran Thampy	Lyricist
11	V.G Kurup	Former PSC Chairman
12	P.G.Thampi	Novelist
13	B.R. Prasad	Programme Executive, Asianet
14	Fahad Fazil	Film Artist
15	Ram Chand	Former CEO, Sun Pharma
16	Vayalar Ravi	Former Central Minister
17	Renji Panicker	Film Script Writer, Director and Artist
18	Muhammed Akbar Hydri	First University Medal Winner
19	Sibi Malayil	Film Director
20	Kavalam Sreekumar	Vocal Artist
21	Sarath Chandran	News reader, Kairali Channel
22	Beeman Reghu	Film Artist
23	Girirajan	Chairman Bhima Jewellery
24	K.Madhu	Film Director
25	Dr. John	Former DGP Karnataka
26	Alleppey Ashraf	Film Artist
27	Ipe Vallikadan	Asianet, Dubai
28	Murugan	Chairman, SD Pharmacy
29	Sudheep Kumar.	Play back Singer
30	P. Sanjeev Kumar	Founder Chairman and CEO Bank M, Tansania
31	Ms. Shyni IPS	SP, Kerala cadre
32	K. L Mohana Varma	Novelist
33	Prakash Varma	Add Film Maker- Nirvana Films
34	Bineesh Panicker	Bureau Chief, Deepika,
35	Jeevan B	Colonel, Indian Army
36	Dr. Padmakumar	Physician, Alappuzha Medical college
37	Sanjai Jose	Special correspondent, Times of India

Table 5.20: Major Sports Alumni of the College (Selected Ones Only)

P.J.Joseph-	World Power Lifting Champion (Arjuna Award winner)
K.Gopinath	International Volleyball Player
P.S.Viswappan-	International Basketball player
Gopakumar	International Hockey Player
Ninan	International Hockey Player
Thomas Chavara	International swimmer
Mini	International Rower

Sonyamma Antony	International Rower
M.Suresh Kumar	International Cricketer
Dr.Manojkumar	International Chess player
Krishnakumar	International Shuttle Badminton player
Bindu.K.N	International Canoeing & Kayaking
Jincy Mol Varghese	International Rower
Rachel Abraham	Combined Indian University Team member (Rowing)
Prasanth P Nair	International Rower
P P Joseph	International Tchouk Ball Player
Sreehari	International Tchouk Ball Player
Nithya T A	International Canoeing and Kayaking

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Table 5.21

Student progression- Percentage of students in the year

Student progression	Percentage of students in the year				
	2011-12	2012-13	2013-14	2014-15	2015-16
UG to PG	50	55	57	53	60
PG to M.Phil.	7	5	5	3	3
PG to Ph.D.	5	5	5	10	10
Employed					
• Campus selection	2	2	10	10	10
• Other than campus recruitment	50	50	60	70	70

The college does not have a formal structure of tracking the progression of students from UG to PG and further studies. However through the Alumni meetings and other social networks it is learned that approximately 60% of the students who pass out from degree classes have pursued their studies in PG courses. Around 3% of the students only go for M Phil programme and almost 10% of the PG students take up research for doctoral degree after their PG courses.

The general trend across the last few years is that the percentage of students taking up further studies has slowly started increasing with more number of seats available for PG courses at affordable prices. The availability of bank loans for education also has encouraged many students to consider further studies as an option.

With regard to the campus placements, majority of the students are not interested in attending many campus placement drives. However we have noticed that after a year of completing their courses they come back to their alma mater and ask for placement leads or jobs. Considering this, the CGPC (career guidance and placement cell) has taken sufficient steps to conduct placement drives in the campus and provide career guidance and training. Although government jobs are still preferred widely, many students are now more open to the idea of accepting jobs in the private sector.

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Table 5.22**Academic Programmes - Percentage of Pass**

UNDERGRADUATE PROGRAMMES PERCENTAGE OF PASS						
Sl. No	Programme	Percentage of Pass				
		2011-12	2012-13	2013-14	2014-15	2015-16
1	B.Sc Mathematics	NOT AVAILABLE FROM UNIVERSITY	80.77	80.00	83.33	36.36
			63.68	73.87	76.11	39.60
2	B.Sc Physics		53.13	59.46	57.14	21.95
			68.89	70.54	62.10	41.86
3	B.Sc Chemistry		66.67	59.46	80.70	37.84
			62.39	63.08	70.86	44.85
4	B.Sc Botany		85.29	82.35	72.34	37.84
			77.33	78.08	76.77	40.15
5	B.Sc Zoology		74.29	96.67	80.00	51.35
			82.10	83.27	76.36	44.17
6	B.Com		78.99	87.83	88.70	76.40
			85.46	86.58	88.92	83.12
7	B. A. Malayalam	63.04	69.57	63.04	2.86	
		64.94	70.54	59.17	29.44	
8	B.A. Hindi	73.68	96.15	81.08	51.85	
		82.98	87.30	83.76	45.21	
9	B. A. English	73.33	87.18	92.31	39.13	
		82.29	83.28	84.83	56.62	
10	B. A. Communicative English	73.53	67.65	87.50	32.56	
		69.12	74.22	79.80	79.08	
11	B. A. History	34.88	78.95	52.50	12.00	
		60.37	60.35	59.73	13.84	
12	B.A. Economics	52.38	70.69	64.15	21.56	
		54.23	57.88	57.92	22.85	
Results in bold letters represent SD College result						
Average result of colleges in Alappuzha district						
Kerala University website doesn't had over all results prior to 2012 for UG						
POST GRADUATE PROGRAMME PERCENTAGE OF PASS						
Sl. No	Programme	Percentage of Pass				
		2011-12	2012-13	2013-14	2014-15	2015-16
1	M.A.English	84.21	100.00	88.24	80.00	94.74
		82.85	95.79	94.79	93.21	85.20
2	M.Sc Mathematics	82.35	76.92	73.91	73.68	91.67
		78.68	57.46	66.48	54.73	66.19
3	M. SC Physics	60.00	50.00	57.14	83.33	84.61
		70.67	53.95	54.20	70.35	75.77

4	M. SC Chemistry	78.57	53.85	53.85	72.22	47.37
		71.28	71.12	69.57	69.59	71.15
5	M. SC Botany	81.25	81.25	83.33	94.44	94.44
		82.29	86.78	77.38	87.22	90.54
6	M. SC Zoology	78.57	53.85	53.85	72.22	93.75
		82.60	74.36	77.47	79.63	87.50
7	M.Com	81.25	100.00	94.44	95.00	90.00
		84.38	97.62	90.08	90.36	82.83
8	M.A. Economics	71.43	70.00	55.00	50.00	69.24
		79.47	65.10	46.50	59.21	53.87
9	M.A. Malayalam	NA	NA	NA	57.14	88.88
		-	-	-	-	84.17
Results in bold letters represent SD College result						
Average result of colleges in Alappuzha district						

Table 5.23: Completion Rate

Sl. No	Programme	COMPLETION RATE			
		2012-13	2013-14	2014-15	2015-16
Under graduate Programme					
1	B.Sc Mathematics	92.73	97.87	94.83	100
2	B.Sc Physics	89.74	100	95.65	97.78
3	B.Sc Chemistry	95.00	100	100	97.50
4	B.Sc Botany	92.68	97.06	100	97.56
5	B.Sc Zoology	76.32	100	97.73	100
6	B.A. Malayalam	97.76	97.96	97.96	100
7	B.A. English	93.62	97.73	95.56	96.08
8	B.A. Communicative English	100	100	100	100
9	B.A. Hindi	92.50	100	100	94.29
10	B.Com	96.67	98.33	98.36	100
11	B.A. History	81.63	97.78	100	100
12	B.A. Economics	90.00	100	98.28	92.65
Post Graduate Programmes					
13	M.A. English	100	100	100	100
14	M.Sc Mathematics	100	100	100	100
15	M.Sc Physics	92.31	100	100	100
16	M.Sc Chemistry	100	100	100	100
17	M.Sc Botany	89.47	100	100	100
18	M.Sc Zoology	100	100	100	100
19	M.Com	100	100	100	100
20	M.A. Economics	100	100	94.74	100
21	M.A. Malayalam	N.A	N.A	100	100

5.2.3 How does the institution facilitate student progression to higher level of education and/ or towards employment?

The Career Guidance and Placement Cell of the College is a dynamic body functioning to provide career awareness, training and placement drives to the students. The cell works under the guidance of a faculty coordinator who is supported by student placement secretary and representatives. The cell provides comprehensive training programmes and sufficient information through the resources of the General library. Newspapers and e-resources are made available to students to provide information on career opportunities and job openings.

The Career Guidance and Placement Cell does not limit its goal to just finding jobs for students. It aims to help students to make informed choices regarding careers by organizing career guidance and training sessions and seminars with expert resource persons from industry and the government sector. It serves as a liaison between students and potential employers and organizes campus recruitment drives in which highly reputed companies are invited. It facilitates a large number of placements by offering training programmes for every aspect of the placement process.

- Training activities are organized throughout the year in an effort towards preparing the prospective students for the campus selection programmes.
- Aptitude tests and group discussions are conducted at regular intervals to enable the students to improve their performance in competitive exams.
- Announcements of job opportunities and avenues for higher education are made through notices to all final year class rooms and also through notice boards.
- Well stocked library and updated magazines are open to student's use in the general library. Books related to general reading, General Knowledge, Competitive exams, UGC NET/SLET etc are made available.
- Academic excellence, teamwork and innovative methodologies of our teachers for inculcating research aptitude, and pursuit for excellence in higher education have been instrumental in facilitating progression to higher levels of education among our students.
- The college offers 9 postgraduate programmes and research programmes in 6 disciplines leading to Ph.D. which itself should naturally motivate our students to pursue higher education.
- The college organizes a number of national seminars and conferences ensuring participation and interaction of our students with highly reputed experts.
- The college offers soft skill development programmes as well as Additional Skill Acquisition Programmes (ASAP) for promoting a variety of skills.
- Our faculty undertake sponsored major/minor research projects in which PG students get ample opportunities to acquaint themselves with research activities.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The institution is committed to achieve cent per cent pass in university exams. Socioeconomic, cultural and psychological issues contribute to the failure of students.

Special support provided to the students include

- Special Induction Programmes are conducted at the beginning of the course
- Personal attention and counselling by faculty
- Remedial coaching in difficult subjects
- PTA meetings with parents to identify and rectify problems
- Special lectures on English grammar and communication
- Additional training through Student Support Programme
- Walk with a Scholar programme to support bright students
- Career counselling and guidance through CGPC
- Organizing coaching classes and training sessions for competitive exams.
- Financial assistance to the students belonging to economically weaker sections.

- Special study materials are made available to them.
- Students at the risk of dropout due to financial problems are given assistance.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and programme calendar.

- The College has a wide range of sports, games, cultural and extra-curricular activities that are available to the students. The College has always carved a niche for itself in the field of sports.
- Our College has a well-stocked gymnasium with all modern state-of-the-art equipment to help students maintain health and hygiene.
- There are opportunities galore for the expression of various cultural and extracurricular activities like folk dances, classical songs, group songs, theatrical arts, traditional heritage arts, fine arts, quiz, creative writing, painting, modelling, cartoon drawing, dramas and literary items on many occasions as the table below attests.

Major sports facilities in the College

- Water Sports (Rowing, Canoeing & Kayaking in association with SAI)
- Power Lifting , Weight Lifting & Best body Physique
- Cricket in association with KCA and DCA
- Basketball
- Chess
- Table Tennis
- Shuttle Badminton
- Kabaddi
- Handball
- Athletics

Facilities in the Department

- ✓ Multi gymnasium
- ✓ Cricket ground
- ✓ Concrete Basketball Court
- ✓ 200 M Track
- ✓ Volleyball court
- ✓ Handball court
- ✓ Kabaddi court

The cricket stadium is established in association with the Kerala Cricket Association and a MOU has been signed for this purpose. Bowling Machine, 3 practice pitches, facilities for net practice are already in place. A pavilion, player's rooms, water tank, toilets and indoor practice facility will be established as part of the MOU. This is a unique facility in Kerala and the only one in Alleppey District. A committee consisting of members from KCA, Alleppey Cricket Association and College Management is in charge of decision making and implementation.

List of agencies collaborating with the department.

- Sports Authority of India (SAI)- Special Area Games in Water sports
- Sports Council
- District Associations of various games

Cultural Activities

S.D. College has produced a large number of well known cultural artists from its inception. We emphasise holistic development of the students by encouraging co-curricular and extension activities. A faculty called the staff advisor to students creates an atmosphere which nourishes young talents to prosper in the field of arts, music and dance. Dr.Tommy John served as Staff Advisor for the past five years. Cultural activities are fostered through Arts Day, College Day, Association wise cultural events etc. Selection of students for University Youth Festival is supervised by the staff advisor. Girl students present cultural activities on Women's Day, and also conduct arts and crafts exhibitions. Students also perform in the Sanatana Dharma Vidyasala Annual Day at the Centennial Auditorium in Alleppey every year. Founders' Day celebration also provides an opportunity for the students to perform in front of the whole college. The Literary Club conducts literary competitions to foster the creativity of students. S.D. College has always provided multiple platforms for the student community to develop their natural talent.

Table 5.24
Participation of Students in Kerala University Youth Festival 2015-16

Item	Details of Items	Name of the Participants	Class with Group/Subject	
1	LIGHT MUSIC - MALE	ANANTHAKRISHNAN R.	3 rd BSc Physics	
2	LIGHT MUSIC - FEMALE	ANUPA JOSE	1 st BSc Physics	
3	CLASSICAL MUSIC - MALE	SABARI B.	2 nd BSc Maths	
4	MAPPILAPPATTU - MALE	ALIF SHOWKATH	1 st BSc Maths	
5	MAPPILAPPATTU - FEMALE	FARSANA SALI	2 nd BSc Zoology	
6	STRINGED INSTRUMENT - Western Style	ANUPA JOSE	1 st BSc Physics	
7	PERCUSSION INSTRUMENT - Tabala	VAISAKH M.	1 st BA English	
8	PERCUSSION INSTRUMENT - Eastern Style	SREERAJ J. KAMATH	2 nd B Com	
9	FOLK SONG	1	MONISH M.	1 st BSc Maths
		2	REMYA MENON	1 st BSc Maths
		3	ANUJA ASHOK	2 nd BA English
		4	VEENARAJ P. A.	1 st BSc Zoology
		5	ATHIRA G. PRASANTH	1 st BSc Botany
		6	HARITHA S.	1 st BSc Botany
10	BHARATHANATYAM - FEMALE	ANJANA R. NAIR	1 st BSc Physics	
11	KUCHIPUDI - FEMALE	ANJANA R. NAIR	1 st BSc Physics	
12	FOLK DANCE - FEMALE	BHAVYA DAS	1 st BA English	
13	MOHINIYATTAM	ANJANA R. NAIR	1 st BSc Physics	
14	OTTAMTHULLAL - FEMALE	BHAVYA DAS	1 st BA English	
15	RECITATION - Malayalam	ANANTHAKRISHNAN R.	3 rd BSc Physics	
16	RECITATION - English	NIVEDITHA KARTHA	1 st BSc Maths	
17	ESSAY WRITING - Malayalam	GOPIKA DILEEP	2 nd BSc Botony	
18	ESSAY WRITING - English	ALBY THOMAS PAUL	1 st B Com	
19	ESSAY WRITING - Hindi	MARIAMMA BIJU	2 nd BA Hindi	
20	SHORT STORY WRITING - Malayalam	SHRUTHIMOL J.	3 rd BSc Physics	

21	SHORT STORY WRITING - English	SANJAY SUDHAKAR	3 rd BA English
22	SHORT STORY WRITING - Hindi	ANUSREE V. S.	1 st Bcom
23	POETRY WRITING - Malayalam	MEGHA K. V.	2 nd BSc Botany
24	POETRY WRITING - English	ELVIN PAUL	2 nd BSc Physics
25	POETRY WRITING - Hindi	AKHILA B.	2 nd BSc Physics
26	MONOACT - FEMALE	ASWATHY S.	2 nd BA History
27	MIMICRY - FEMALE	PARVATHY	2 nd BSc Micro Biology
28	RANGOLI	ROOPA	3 rd BSc Botany
DOUBLE ENTRY			
Item code	Details of Items	Name of the Participants	Class with Group/Subject
1	Light Music (Male)	SABARI B.	2 nd BSc Maths
2	Short Story Writing (English)	PAVANA VARMA	1 st BA. Com. Eng.
3	Monoact (Female)	ASWATHY MADHUSUDANAN	2 nd BA History

Table 5.25: Programme Calendar

Sl. No	Name of the Programme	Tentative Schedule
1	FOUNDER'S DAY	Third Week of June
2	ONAM CELEBRATION	Last week of August
3	NSS & NCC CAMP	Last week of December
4	COLLEGE UNION INAUGURATION	First Week of January
5	ART'S DAY	Last week of January
6	COLLEGE DAY	Last week of February
7	ANNUAL SEMINAR	Last week of February
8	ASSOCIATION DAY	Different association days spread through February
9	WOMENS' DAY- STUDENT'S UNION	First Week of March
10	INTERNATIONAL WOMENS' DAY	MARCH 8
11	YOUTH FESTIVAL	Second Week of March
12	SPORTS DAY	Last week of March

5.3.2. Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University/ State/ Zonal/ National/ International, etc. for the previous four years.

Table 5.26

Sports Achievements Report of the year 2011-12

Sl. No	Name	Event attended/Prizes Won	Department
1.	Sreejith Mon K	Inter University Participation in Athletics	Eng
2.	Sajana Rajan	Inter University Participation in Athletics	Com
3.	Aravind S	6 Gold medals in All India Inter University Canoeing and Kayaking Championship	Com
4.	Aneesh Kumar S	3 Gold and 1 Silver in All India Inter University Canoeing and Kayaking Championship	-
5.	Manu P G	1 Silver in All India Inter University Canoeing and Kayaking Championship	-
6.	Vibin	3 Gold and 1 Silver in All India Inter University Canoeing and Kayaking Championship	History
7.	Sanoop Sathyan	2 Gold and 1 Silver in All India Inter University Canoeing and Kayaking Championship	Eng

8.	Sujith S	1 Silver in All India Inter University Canoeing and Kayaking Championship	Chem
9.	Nithya T A	1 Gold in All India Inter University Canoeing and Kayaking Championship	Commerce
10.	Anju Krishna	Gold medal Kerala University Inter Collegiate and All India Participation in Power lifting	Maths
11.	Suraj S	Inter Collegiate 2 nd in Power Lifting	-
12.	Aneeshmon	Inter Collegiate 2 nd in Power Lifting and 1 st in Best Body Physique	-
13.	Unni K	All India Participation in Power lifting	-
14.	Praveen K P	Inter Collegiate 3 rd in Pole Vault	History
15.	Vijini Babu Sajana Raju Veena H Annamma Scariah	Inter Collegiate 3 rd in 4 X 100m Relay	Commerce Economics Economics

Sports Achievements Report of the year 2012-13

Sl. No	Name	Event attended/Prizes Won	Department
1.	Aryanath A	Inter University Participation in Athletics	
2.	Rahul P	Inter University Participation in Cricket	Com. English
3.	Muhammed Riswan	Gold medal in Kerala University Inter Collegiate Power Lifting Championship	Commerce
4.	Nandu K C	Gold medal in Kerala University Inter Collegiate Power Lifting Championship	Hindi
5.	Vibin	Inter Collegiate Gold medal and All India I/U Gold medal in Canoeing and Kayaking	-
6.	Sanoop Sathyan	Inter Collegiate Gold medal and All India I/U Gold medal in Canoeing and Kayaking	English
7.	Binu Baby	: Inter Collegiate Gold medal and All India I/U Participation in Canoeing and Kayaking	Maths
8.	Arjun B	Inter Collegiate Gold medal and All India I/U Participation in Canoeing and Kayaking	English
9.	Xavier Mathew	Inter Collegiate Gold medal and All India I/U Participation in Canoeing and Kayaking	History
10.	Pramod T	Inter Collegiate Gold and All India I/U Gold medal in Canoeing and Kayaking	History
11.	Nithya T A	5 Gold Medals and 1 Silver Medal in All India I/U Canoeing and Kayaking	Commerce
12.	Sujith S	Inter Collegiate Gold and All India I/U Gold medal in Canoeing and Kayaking	Chemistry

Sports Achievements Report of the year 2013-14

Sl. No	Name	Event attended/Prizes Won	Department
1.	Rahul P	Inter university Participation in Cricket	Com. Eng
2.	Haris Hassan	Inter university Participation in Cricket	Com. Eng
3.	Balu B	Inter university Participation in Cricket	Commerce
4.	Rineesh R Kumar	Inter university Participation in Cricket	Physics
5.	Jijo Joseph	Inter Collegiate 2 nd in Power Lifting	Economics
6.	Sujith S	All India Participation in Canoeing and Kayaking	Chemistry
7.	Sanoop Sathyan	All India Participation in Canoeing and Kayaking	English
8.	Binu Baby	All India Participation in Canoeing and Kayaking	Maths

9.	Pramod T	All India Participation in Canoeing and Kayaking	History
10.	Nandu K C	Inter Collegiate Gold Medal and All India participation in Power lifting Inter Collegiate 3 rd in Weight Lifting and Best Body Physique	Hindi
11.	Akhil Kumar C.S	All India Participation in Canoeing and Kayaking	History
12.	Subeesh S	All India Participation in Canoeing and Kayaking	History
13.	Nithya T A	6 Gold medals in All India Inter University Canoeing and Kayaking championship	Commerce

Sports Achievements Report of the year 2014-15

Sl. No	Name	Event attended/Prizes Won	Department
1	Arun P. S	National Games Bronze medal in Rowing	
2.	Sujil P Susheelan	All India Inter University Participation in Canoeing Championship	History
3.	Vinu Prasad K O	All India Inter University Participation Canoeing Championship	History
4.	Vipin Jayaprakash	3 rd in All India Inter University Kayaking Championship	History
5.	Akhil kumar C S	All India Inter University Participation Kayaking Championship	History
6.	Anijith	3 rd place in All India Inter University Kayaking Championship	Economics
7.	Shikha Jacob	Inter University participation and National participation in Table Tennis	Commerce
8.	Nandu K C	Gold medal in Kerala University Inter Collegiate Power lifting Championship Junior National Participation in power lifting Gold Medal in Best Body Physique Championship	Hindi
9.	Muhammed Riswan	Gold medal in Kerala University Inter Collegiate and All India Inter University Participation in Power Lifting	Commerce
10.	Kannan Vijayan	Gold medal in Kerala University Inter Collegiate and All India Participation in Power lifting	Malayalam
11.	Jijo Joseph	Gold medal in Kerala University Inter Collegiate and All India Participation in Power lifting	Economics
12.	Kiran B Thundil	Gold medal in Kerala University Inter Collegiate in Power lifting	Economics
13.	Rineesh R Kumar	Inter University and All India participation in Cricket	Physics
14.	Balu B	Inter University and All India participation in Cricket	Commerce
15.	Subeesh S	All India participation in Canoeing and Kayaking	History
16.	Nithya T A	Silver Medal in National Games Canoeing and Kayaking Championship	Commerce
17.	Joel Michael Declles	: Gold medal in Kerala University Inter Collegiate and All India Inter University Participation in Body Physique	Hindi

Sports Achievements Report of the year 2015-16

Sl. No	Name of the student	Event attended/Prizes Won	Department
1.	Sree Hari	Represented India in Tchouk Ball	Physics
2.	Akhil P H	1 st in Kerala University Inter Collegiate and Inter University participation in 400m	Malayalam
3.	Rejil Rajendran	Kerala University Inter Collegiate 3 rd in 20km Walking	Hindi
4.	Sujith Suresh	Kerala University Inter Collegiate 2 nd in Pole Vault	Com. Eng
5.	Kiran B Thundil	Gold Medal in Kerala University Inter Collegiate Best Lifter Award and Inter University selection in Power Lifting	Economics
6.	Rony Philip	2 nd in Kerala University Inter Collegiate Power Lifting	Commerce
7.	Karthik Mathew	VI th in Kerala University Inter Collegiate Power Lifting	Commerce
8.	Winston Polycarp D'Cruz	Gold Medal in Kerala University Inter Collegiate Power Lifting	English
9.	Sanal Johnson	Gold Medal in Kerala University Inter Collegiate Power Lifting	Economics
10.	Anju Raju	Gold Medal in Kerala University Inter Collegiate Power Lifting and Inter University selection Best Lifter Award in power lifting	English
11.	Krishnapriya G Krishnan	Kerala University Inter Collegiate 3 rd in Power lifting	English
12.	Shikha jacob	Senior National Participation and Inter University selection	Commerce
13.	Joshua J Mathew	Inter University Selection	Commerce
14.	Arun V	Winner in Senior State Kabaddi Championship	Hindi
15.	Brahm Prakash	Participation in Junior National Kabaddi Championship	Economics
16.	Fazeel Shaji	Inter University Selection	Commerce
17.	Nikul lal L	Inter University Selection	Com. Eng
18.	Bhupedar K B	Inter University Selection	Com. Eng
19.	Sandra Francis	Inter University Selection	History
20.	Kabaddi Team (M)	4 th place in Kerala University Inter Collegiate Inter zone	-
21.	Table Tennis (M)	Kerala University Inter Collegiate Winners	-
22.	Cricket Team (M)	Kerala University Inter Collegiate Runner Up	-
23.	Ball Badminton (W)	IV th place in Kerala University Inter Collegiate	-
24.	Power lifting and Weight lifting team (M)	Kerala University Inter Collegiate Runner Up	-
25.	Sabin S	All India Inter university Participation in Kayaking	History
26.	Vishnu P	All India Inter university Participation in Kayaking	Economics
27.	Akhil kumar C S	All India Inter university Participation in Kayaking	History
28.	Anijith A	All India Inter university Participation in Kayaking	Economics

29	Vipin Jayaprakash	All India Inter university Participation in Kayaking	History
30	Subeesh	All India Inter university Participation in Canoeing	History
31	Sanchu Antony	All India Inter university Participation in Kayaking	English
32	Albin Sebastain	All India Inter university Participation in Kayaking	Microbiology
33	Vinuprasad K O	All India Inter university Participation in Kayaking	History
34	Adarsh P. V	All India Inter university Participation in Rowing	Economics

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- The institution collects feedback from the alumni and leading employers to improve the performance and quality of the institutional provisions.
- The institution collects informal feedback from the outgoing students
- The institution also collects feedback from employers in formal and informal ways, regarding the performance and expectations of students.
- The information so obtained is integrated in framing syllabi and curriculum for value added programmes and career training programmes.
- Many of the members of the faculty are either members of board of studies or participants in curriculum development workshops. The feedback obtained is also incorporated in the preparation of curriculum.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

- The College publishes its annual magazine utilizing the Magazine Fund of the College Union collected at the time of admission. It provides an opportunity for the students to utilise their creative skills. Students come out with a range of creative products in terms of genres as well as language. The Student Editor of the college magazine is elected in a democratic way along with the election to the college students' union. The College magazine is printed under the supervision of an editorial board consisting of staff and students. The staff coordinators help students in mobilizing funds through advertisements and sponsorships. All the major sections of the magazine have their staff editors as well as the student editors.
- Under the auspices of the creative forum of NSS, a manuscript magazine is published every year at the completion of the Annual Camp.
- NSS unit of our college has brought out a magazine of its activities from the date of its inception till date.
- Many departments have come out with manuscripts funded and developed at their own level.
- PG department of Malayalam has developed a magazine based on the project works of the PG students.
- PG department of Malayalam has come out with a magazine with contributions from students as well as faculty members.
- Students publish a new letter for the whole college under the guidance of IQAC.

- A magazine titled "35 and 1 Hope" was brought out by the Ist Year Communicative English batch of 2012-13 which included articles, poetry, stories, pictures and puzzles contributed by the students of the class. It was edited under the guidance of Prof. D Ramachandran Nair and the Chief Editor was Karthika Nair.
- In 2015-16, a magazine titled "A Tribute to the Emperor of Dreams" was produced by the Ist year Communicative English class to commemorate Dr. A P J Abdul Kalam. The magazine, showcasing the budding talents of the class, was released by the acclaimed author, Sri. Benyamin at the inaugural ceremony of the Golden Jubilee Celebrations, Department of English. The staff editor was Prof. D. Ramachandran Nair and the student chief editor was Aiswarya R.S.
- Newsletters covering the important events at the department and achievements of students were brought out during the academic years, 2014-15 and 2015-16 by the IInd year Communicative English Students of the respective years. The production of the newsletters was guided by Smt. Karthika. R and Kum. Parvathy R respectively. The newsletters also included the contributions of students

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

As per the University rules, the College Union is constituted every year by the elected members from among the students. The College Union comprises of a Chairman, a lady Vice-chairman, a General Secretary, an Arts Club Secretary, a Student Editor, two Lady Representatives, two University Union Councillors, Sports Secretary and Association Secretaries. A teacher nominated by the Principal acts as the Advisor to the Union. The Union activities are organized under the leadership of the Chairman of the Union.

The student's union organizes various activities like Youth Festival, Art's Day, Union activities, Annual Sports Meet, Quiz competitions, campaigns, and cultural events on days of national importance, publishes the college magazine, and also facilitates the Student's Association activities of various departments. The college union makes necessary arrangements to initiate students who excel in arts, literature, sports and games into participating in activities organized in the college. The selected students also represent the college at various events like University Youth Festivals under the auspices of the Union. These activities are streamlined by the Arts Club Secretary of the College Union. The Chief Editor is responsible for publishing the College Magazine.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

The institution believes in giving equal opportunity to students in supporting the authorities and the College faculty in running the affairs of the College. For this, the College endeavours to provide them with opportunities to participate in various academic and administrative bodies. The details of academic and administrative bodies having student representation are the following:

- The College Union of students is in charge of conducting union activities, Youth Festival, Annual Sports Fest, Arts Festivals, College Day, Women's Day, etc.
- The College Union Chairman presides in all meetings and programmes of the College Union.

- Editorial Board of the College Magazine
- Arts Club Secretary coordinates extra-curricular and cultural activities
- Sports Secretary coordinates competitions in sports and games
One student representative in IQAC
- All clubs and forums like NSS, NCC and WSC functioning in the college has student representatives and coordinators and are part of the decision making process and activities.
- Two lady representatives function in Women's Studies Cell
- The Library Advisory Committee also has student representatives
- Each department has Association Secretaries who are elected students of the department, and who have full authority to conduct the Association activities in consultation with the Head of the Department.
- College Council has a student's representative.
- Student representatives in the Hostel Committee.

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

- There is a registered Alumni Association at the college level. The college encourages department level associations of alumni as well.
- There is a representative of the alumni in the IQAC of the College.
- The Alumni serve as resource persons for various enrichment programmes.
- The Alumni Association conducts regular Seminars, Lectures, Conferences, and assists the college in conducting various academic programmes.
- The Alumni Association supports infrastructure development of the college.
- The Alumni Sports Forum is very active. They assist the sports students
- The Departmental Alumni Associations support the activities in each Department.

5.38 Any other relevant information regarding Student Support and Progression which the college would like to include.

The College has recently formed a Civil Service Club to gradually impart training for competitive examinations, mainly, Civil Service Examination. This Club is only at the initial stage and ways and means for the same have to be chalked out.

CRITERION VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1. State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Vision: The vision of the institution is to lead young minds from the darkness of ignorance to the path of truth, wisdom and positive action, through quality education that combines knowledge, skills and human values. The ideals of truth, godliness and beauty, enshrined in the motto of the institution, "Satyam, Shivam, Sundaram", are inculcated in a holistic educational vision and practice leading to the realisation of a fuller human life and to nation building.

Mission:

- To inculcate nationalistic, secular, inclusive and humanitarian values in students by imparting intellectually challenging and value-added education.
- To provide students with quality education through the latest and best teaching – learning-evaluative methodologies in the disciplines of science, technology, arts, languages, commerce and culture.
- To equip students with the skills needed for success in a highly competitive globalized world.
- To develop social commitment, personal ethics and discipline, good citizenship and proactive leadership among students through co-curricular and extension activities.
- To encourage the spirit of enquiry, creativity, intellectual scholarship and research, which will lead to the positive development of society on the regional, national and global levels.

The college, which has been in existence for seventy years, has been fulfilling this mission in keeping with the values of justice, tolerance and secularism enshrined in the Constitution of India, and the vision of its founding fathers. Since majority of the students come from economically and socially weaker sections of the area, the institution has been serving to uplift society by providing quality education at affordable cost. The college ensures transparency, democracy, participation, sound organisational set up and accountability in its functions while maintaining quality in its academic and administrative units. We continue this noble mission through committed and sustained teamwork in the planning and implementation of all activities. In this era of global competition, we move forward with the determination to achieve the following goals:

- To incorporate the current technological innovations in the teaching-learning process
- To develop formal systems to stimulate academic and research environment through quality research, consultancy and rigorous training programmes.
- To establish productive collaborations with other stakeholders in the arena of higher education.
- To develop and foster competency among students and teachers by establishing linkages that will ensure exposure to the current global trends in education, technology, research and industry.

6.1.2 What is the role of top management, Principal and Faculty in design and Implementation of its quality policy and plans?

- S.D. College has a well- defined, participatory and democratic management system, which co-ordinates, implements and monitors the plans and policies of the institution in the academic and administrative realms. The Management provides all infrastructural facilities and moral support for fulfilling the purpose of providing quality higher education to the students who are the main beneficiaries.
- The Management Committee consists of eight members, and the present Manager of the college is Sri. J. Krishnan, FCA.
- The Manager of the college is the appointing authority and discharges his functions accordingly. The Liaison Officer assists the Manager in the judicious implementation of the policies.
- There is a College Council consisting of the Principal, Vice-Principal, Heads of the Departments, Librarian, Student Advisor and three elected members from teaching staff. The Council members discuss and develop institutional plans, and assist the Principal in the daily activities of the College.
- The Principal, who is the administrative head of the institution, implements the proposed quality policies and plans. He coordinates the functions of the Management, the faculty, students and the administrative staff of the college. The Vice-Principal discharges the duties of the Principal in his absence.
- Heads of the Departments, CLMC Coordinator, Course Coordinators and the faculty work together towards the proper implementation of all academic and administrative decisions at the Department level. Various Committees under Faculty Coordinators take up the co-curricular and extra-curricular activities of the students.
- The IQAC monitors the quality initiatives and ensures its smooth implementation. All the major quality enhancing initiatives and policy decisions are implemented taking the Management, College Council, the IQAC and the teaching and administrative staff into confidence.

6.1.3 What is the involvement of the leadership in ensuring: the policy statements and action plans for fulfilment of the stated mission; formulation of action plans for all operations and incorporation of the same into the institutional strategic plan; interaction with stakeholders; proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders; reinforcing the culture of excellence; champion organisational change

Fulfilment of the stated mission

- The Management Committee obtains information from various stakeholders, evaluates it based on real time needs and takes policy decisions, which are translated into operational plans by the Principal, the Council and the IQAC.
- The Management provides all infrastructural facilities, upgrades them periodically and ensures that the vision and mission of the college is implemented.
- There is no compromise on the quality of staff recruitment.
- All academic, co-curricular and extension activities are given due importance. Care is taken to ensure the academic progress and societal commitment of the

students. The college promotes the activities of the NSS, NCC, WSC, clubs and forums to foster secular and human values.

- Research initiatives of the staff and students are supported, and research collaborations and linkages are promoted.

Formulation of action plans and institutional strategic plan

- The Management has developed a vision document, namely VISION 2025 with a view to develop the institution as a centre of excellence by 2025.
- IQAC monitors the time bound and systematic implementation of quality enhancing and sustaining measures.
- The Management conducts internal academic audit every year and gives suggestions for improvement.

Interaction with Stakeholders

- PTA meetings are conducted regularly to monitor the progress of students and to address grievances
- Promotes the activities of the Alumni Associations
- Collects feedback from all stakeholders and gives due importance to their opinions and suggestions while framing policies.
- Regular staff meetings are held in the department and college level
- College Union activities are encouraged and student's suggestions are given due importance.

Support for policy and planning

- The Management Committee, Principal, College Council and HODs identify the priority areas, prepare action plans and implement them effectively through various committees.
- Policies and plans are defined and prioritized after consulting all stakeholders.

Reinforcing the culture of excellence

- The effective implementation of a systematic and student centred teaching –learning process, infrastructural support and extension activities reinforces the culture of excellence.
- Research initiatives and activities among the staff and students are promoted and given due priority.

Champion of organisational change

- Participatory style of management is promoted through the coordination between the Management, Principal, College Council, the IQAC, staff and students.
- The Principal acts as a link between these stakeholders, identifies and builds potential, and promotes unity among them, thus championing organisational change.
- Supporting skill enhancing initiatives and conducting career recruitment drives to promote employability of students.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The College has an effective mechanism to monitor and evaluate policies & plans of the institution for effective implementation and improvement.

- Regular reporting of all concerned administrative and academic matters by Heads of the Departments in the College Council, and by the Principal to

the Manager. All administrative, academic and quality related policies are discussed in the College Council before implementation.

- IQAC regularly holds discussions with all stakeholders to review and monitor the quality enhancing measures. The changes in the manual made from time to time are discussed and updated for implementation. The IQAC also conducts seminars and workshops for the familiarization of the policies and suggestions of NAAC and the preparations for the re-accreditation process.
- Staff meetings, IQAC meetings, College Council meetings and PTA meetings are conducted periodically.
- Feedback from stakeholders is collected and reported to the Management, which is then reviewed and acted upon accordingly.
- Coordinators of various sub committees monitor and evaluate the implementation of their respective areas.
- Academic review is conducted by the Managing Board for analyzing the overall performance of the institution.
- There is a formal work record for the appraisal of the performance and efficiency of teachers and non-teaching staff. The teachers are required to submit the self-appraisal form duly attested by the departmental heads to the Principal.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

- The Manager and the Principal convene staff meetings and encourage the faculty in their academic, research and leadership initiatives to ensure academic excellence.
- Facilities are provided to organise national/ international seminars/ conferences/ workshops.
- Faculty are encouraged to improve their expertise by availing TFS of UGC for Ph.D and Post-Doctoral research, attending Refresher and Orientation courses, presenting research papers in seminars, conferences etc.

6.1.6 How does the college groom leadership at various levels?

- The Manager and the Principal play an important role in governance and management of the college. They ensure that all are involved in various duties and committees that are formed to implement policies effectively.
- The Principal identifies and promotes leadership among faculty by entrusting them with the charge of various academic and co-curricular activities. The activities of IQAC, NSS, NCC, WSC, college hostel, Anti-ragging Cell, clubs, etc are meant to enhance the leadership qualities of both students and faculty.
- The Heads of the Departments lead and coordinate the activities at the department level. Faculty are given charge of academic and student activities in the department.
- To enhance their ability to discharge duties the Administrative Staff are encouraged to attend various training programmes such as computer awareness programmes, special training on SPARK etc.
- Students are encouraged to take leadership roles in all their academic and co-curricular activities. All clubs and forums have student leaders and members who are entrusted with the planning, organisation and implementation of programmes. Student leaders are elected through college union elections.

- Forums like NSS and NCC send students to attend leadership camps on the state and national level.
- Staff members also attend training programmes to enhance leadership skills.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments/ units of the institution and work towards decentralised governance system?

- The college has a decentralised organisational structure to ensure smooth functioning. The college has 12 departments with 13 UG courses and 9 PG courses. Out of 12 departments, 6 are research departments.
- The IQAC is entrusted with the responsibilities of creating and sustaining quality enhancing initiatives. The Departmental IQAC (DQAC) plays a key role in implementing the suggestions of the IQAC in the curricular and co-curricular activities.
- The Head of the Department is authorized to assign duties to faculty, schedule time-tables and make work arrangements, and to allocate facilities to faculty and students.
- The Departments are given autonomy to host seminars, workshops and all related academic, research and extension activities. Departments are given freedom to utilise UG/PG grants as per UGC guidelines
- The Department staff meetings are held regularly. Departments are also in constant communication with the Management through Principal and the College council.
- Alumni meetings are held periodically to discuss all round developments of the departments.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management?

Yes. The college firmly adheres to a democratic and participative management approach in all its activities.

- The Principal and Vice- Principal are members of the governing body of the college.
- IQAC is constituted with representatives from the Management, HODs, faculty members and administrative staff, librarian, Alumni, etc. DQACs are also constituted at the department level.
- All HODs and elected representatives of staff are members of the College Council. The Council meets regularly.
- Staff meetings are also held regularly on the department and college level to ensure that all grievances and suggestions are voiced, heard and discussed.
- PTA meetings and college Alumni meetings are regularly held to frame strategies for the all round development of the college.
- A committee system is adopted for the implementation of all academic, research, administrative and extension activities of the institution.
- The Principal convenes meetings of the College Union to discuss and solve students' academic problems, and their extra and co-curricular activities.

Committees and their responsibilities are given in the table 6.1.

Table 6.1: Various Committees and their Responsibilities

Committees	Responsibilities
Management Committee	Assessing, suggesting and approving key policy decisions
Internal Quality Assurance Cell (IQAC)	Implementing and sustaining quality enhancing measures; documentation of data
College Council	Planning day to day administration, consultations/suggestions for quality sustenance
College level Monitoring committee (CLMC)	Planning/ discussing the conduct of Choice Based Credit System
Discipline Committee	Enforcing students' discipline, behaviour and dress code
Anti-Ragging Committee	Redresses the grievances of the students concerning ragging
Admission Committee	Admission of students based on Kerala University and Government rules
Research Monitoring Committee	Monitoring the Progress/Conduct of Research Projects
Research Consultancy and Service Cell	Monitoring and evaluating research initiatives and projects; nodal agency for establishing institute-industry interface.
PG Monitoring Cell	Monitoring academic matters (P.G)
Library Advisory Committee	Taking decisions on updating and managing the library
PTA	Link between students, teachers and stakeholders; looks after student welfare
Building Committee	Looking after the construction and maintenance of buildings
Purchase Committee	Looking after all sorts of purchase under different schemes
UGC Planning Board	Looking after all matters related to UGC projects and funds

In addition to these committees, there are forums like Alumni Associations, NSS, NCC, WSC (Women's Studies Cell), and clubs such as Science Club, Eco-Club, Literary Club, Drama Club, Film Club, Planning Forum, etc.

6.2 Strategy Development and Deployment

6.2.1. Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

The long tradition of the college and its commitment to serve society better has helped in evolving the quality policy, which is in tune with the stated institutional vision and mission. Subsequent to committed deliberations between the Management, the IQAC and all other the stakeholders, a vision document namely VISION 2025, has been developed. The vision document is rooted firmly on the fundamental concepts of liberal thinking, knowledge transaction, research and development, social responsibility and democratic functioning. It is reviewed from time to time taking into consideration the needs of the changing scenario, and care is taken to implement the policies and measures to the minutes detail in the day-to-day functioning of the college.

6.2.2. Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

The college has a perspective plan for development that envisages the college to rise to the level of an institution with Potential for Excellence. These plans are the result

of the constant deliberations of the Management, IQAC, the College Council and various stakeholders. Accordingly, a vision document called VISION 2025 has been developed by the college Management in consultation with the stakeholders. It serves as a guideline for all development projects. The aspects considered for the inclusion in the perspective plan are:

- Infrastructure development
- Developing formal mechanisms to supplement curriculum development to match the requirements of the changing times, in order to overcome the limitations of the lack of flexibility of the University system.
- Special provisions for research and development; augmenting the facilities and functioning of the research departments;
- Developing consultancy services and linkages with industries and research institutes, so that research outcomes can be used for societal development.
- Resource mobilization by tapping sources such as alumni, and through consultancy services.
- Providing effective training in the latest teaching-learning-research methodologies for teachers to increase academic efficiency and research output.
- Increasing students' employability potential by providing training in communication and soft skills.
- Developing social consciousness and commitment to nation building among students through co-curricular and extension activities

6.2.3 Describe the internal organisational structure and decision making processes

Sanatana Dharma College is an aided college affiliated to the University of Kerala. The College is managed by Sanatana Dharma Vidyasala, a non-profit making institution registered under the companies act in 1946. It is administered by a Management Committee of eight members, one among them functioning as the Manager of the college. The current Manager is Shri. J. Krishnan, FCA. The Manager appoints the Principal from the staff to look after the internal administration of the college. The Principal is assisted by the College Council, the IQAC, the Vice Principal and the Heads of Departments. The chief functionaries of the College are the following-

Manager – The Manager has the power of appointment of functionaries like the Principal, the Vice-Principal; manage appointments, promotions, and disciplinary issues of personnel; and the utilization of the property and facilities of the college subject to the Constitution.

Principal - The Principal is the Administrative Head and Drawing and Disbursing Officer of the institution. He is the Chairman of the College Council, IQAC, and patron of all other committees and forums. He acts as a link between the Management, the college and all stakeholders; ensures the day-to-day functioning of the institution in all academic and administrative matters.

Vice-Principal – The Vice-Principal is appointed by the Manager in consultation with the Principal from among the staff members. The Vice-Principal assists the Principal in his duties and acts in his absence.

Heads of Departments- Each Department works under the respective Head of the Department appointed on the basis of seniority. The HOD is responsible for the Department timetable, work allocation among teachers of the department, review of work done by teachers, conduct of internal

examinations, and submission of various reports to the Principal.

Faculty Advisors: There is a faculty advisor for each class nominated by the Principal on the recommendation of the respective Head of Department. The Faculty advisor is responsible for class discipline, class attendance, coordinating internal evaluation activities, and preparing the reports to be sent to the University and supervising the co-curricular activities of the students.

Administrative Assistant- The Administrative Assistant is in charge of the office affairs. He is assisted by the Head Accountant, Office Superintendent and other office staff.

Coordinators of Clubs/Forums: each club is allotted a teacher coordinator to coordinate and organise various functions with the participation of students.

College Council: The College Council consists three elected members of the staff as per the University Statutes, all HODs, Vice-Principal, Administrative Assistant, and Librarian members. Principal is the Chairman of the Council. The Staff Council meets frequently. The secretary is responsible for maintaining the minutes. Decisions regarding schedule of examinations, schedule of classes, disciplinary actions, etc. are taken in the College Council Meetings.

Internal Quality Assurance Cell (IQAC): IQAC meetings are regularly held. IQAC usually makes recommendations about matters affecting the all-round performance of the college. It aims at quality enhancement and sustenance. Based on the recommendations of IQAC, Principal takes decisions on such matters in consultation with the Management.

General policy decisions are taken by the Management Committee and they are implemented by the Principal through the IQAC and College Council. The inputs for decision making are obtained through feedback from various stakeholders.

6.2.4 Give broad description of the quality improvement strategies of the institution for each of the following – Teaching & Learning – Research & Development – Community engagement – Human Resource Management – Industry interaction

❖ Teaching and Learning

- Teachers are recruited purely on merit adhering to the norms stipulated by the State Government, University of Kerala and other regulatory bodies.
- Teachers maintain their personal profiles and records to keep a track of their academic duties and achievements.
- Choice based credit and semester system (CBCSS) was introduced at UG and Credit and semester system (CSS) at PG level.
- Teachers conduct periodic tests to assess the performance of students, and provide remedial coaching to slow learners. Test papers, seminars and assignments are compulsory components for internal assessment.
- Attendance in both theory and practical classes is closely monitored, and semester – end model examinations are conducted
- A total of 14 open courses are offered to provide inter- disciplinary studies. ICT enabled teaching- learning processes are adopted by teachers and students in most of the departments.
- Peer teaching is practiced in certain departments.
- The feedback collected from students are assessed at various levels

- ASAP & WWS programmes are conducted to augment the learning skills of students. These are elaborated separately.

❖ **Research & Development**

- The college has 6 Research centres approved by University of Kerala with adequate infrastructural facilities
- A Research Monitoring Cell (RMC) & Academic and Research Forum (ARF) are functioning in the college, which monitors ongoing research projects. It also helps teachers in identifying funding agencies, preparing proposals for financial assistance and submitting audited reports.
- Research and Consultancy Service Cell (RCSC) is being set up with the intention of monitoring and evaluating research initiatives and projects, and serves as a nodal agency for establishing institute-industry interface.
- Seminars and workshops are conducted on new and emerging areas of research and research methodology, with many eminent experts sharing their expertise with the staff and students.
- There are a few research collaborations with nearby industries and other institutions such as Central Coir Research Institute, CPCRI, CTCRI, CUSAT, IUCAA etc.
- There are 17 Research Guides on different disciplines in the college. Many of them are external guides in other centres/research Universities.
- The management encourages teachers to take up projects and collaborative assignments and provides all the necessary support for research and development.
- A Research Journal with ISSN is being prepared to publish from the college under the auspices of the Academic and Research Forum.

❖ **Community Engagement**

- The NSS and NCC units of the college are involved in a series of activities for community development as stated in section 3.6.4
- Blood donation camps, flood relief programmes, health camps, visits to old age homes, cleaning drives, etc are held by the NSS, NCC and WSC regularly.
- A novel humanitarian initiative involving the Management, staff and students, called Annam Sanatanam has been launched. Food packets are distributed to hospitals free of cost once a week.
- Agri-horticultural exhibition is conducted every year with large scale participation of the public.
- Cultural events are hosted in connection with festivals and commemorative days.

❖ **Human Resource Management**

- The recruitment of staff is made with transparency. The institution guarantees freedom and equality to all staff.
- Staff members are motivated to undergo orientation, refresher programmes, and organize and participate in seminars, conferences and workshops. They have autonomy in conducting their research activities and projects.
- Staff members have the responsibility of coordinating club, forums and all co-curricular and extension activities.
- Faculty and administrative staff are given training in teaching and research methodologies, ICT and soft skills.

❖ Industry Interaction

- Department of Chemistry maintains a linkage with the Central Coir Research Institute, Alappuzha.
- Department of Botany/ Zoology
- Students visit industries such as FACT, Aluva, KSDP, Alappuzha as part of their curriculum learning.
- There are student visits to banks, Security Market, hospitals etc as part of their on-the-job training.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution.

- The Principal reports to the Manager and Management Committee, and provides updates about all matters of the institution. Important policy decisions are taken only in consultation with the Management.
- The Principal collects feedback from students and parents about the activities of the college, its staff, library facilities etc.
- The Manager is invited to attend IQAC meetings, staff meetings etc.
- The Principal, Vice- Principal and the Liaison Officer act as a link between the Management and the college
- The stakeholders are provided with necessary information through College website which provides relevant and updated information
- The college annually publishes the prospectus or the College Calendar, manuals, brochures etc, which are distributed to the students and stakeholders free of cost.
- Announcements and press releases are made about major programmes, activities, achievements etc.
- PTA meetings and General body meetings of Alumni Association are notified and conducted regularly.
- A college magazine is published every year and distributed free of cost to all students and staff.
- Audited reports, statements and accounts of projects and other statutory reports are submitted to the Govt, UGC, NAAC etc on time.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

- The promotions and career advancements of the staff are facilitated smoothly.
- A participatory system of management is practiced whereby various administrative responsibilities and development initiatives are implemented through committees, with members of the staff as coordinators.
- The staff are allowed free use of all technological facilities, and other resources, and are encouraged in their academic and research initiatives.
- The involvement and achievements of the staff in the institutional process is duly acknowledged and recognized.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Table 6.2: Decisions taken by the Management Council and status of Implementation

Sl. No.	Decisions/ Resolutions	Stage of Implementation
1	To renovate the IQAC room	Renovated and upgraded with audio - visual facility

2	To construct a new laboratory block for FIST facility	Ongoing
3	To alter two classrooms (27 & 28) into Material Science Research Lab under the SARD facility	Completed
4	To construct a new block with more number of classrooms and examination hall	Ongoing
5	To construct a room for centralized computer facility	Ongoing
6	To construct a new block in the ladies hostel	Completed
7	Mural paintings at the main entrance of the building	Completed
8	Renovation of all classrooms, laboratories and departments with false ceiling and flooring with tiles	Completed
9	To enhance the two departments: Mathematics & Economics to Research Departments	Approved by University of Kerala
10	To strengthen library with NLIST/INFLIBNET	Implemented
11	Library Automation	Completed

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If ‘yes’, what are the efforts made by the institution in obtaining autonomy?

Yes. In May 2013, the Government of Kerala has decided to accord autonomy to selected Arts and Science Colleges, both in the affiliated and government sector. But S.D. College has not gone for it as yet.

6.2.9 How does the Institution ensure that grievances/ complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder relationship?

- A Grievance Redressal Cell is functioning for the redressal of student grievances.
- Class PTA meetings are held under the tutorial system, where the students and parent’s concerns are addressed. Mentoring practices are also followed to address student issues.
- PTA meetings and alumni meetings are held regularly, where feedback is collected for further action.
- A Suggestion/Complaint box is placed in the college to collect feedback from all stakeholders.
- The Govt and Court orders and UGC regulations on work ethics, discipline, anti-ragging measures, and prevention of sexual harassment are followed.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide the details on the issues and decisions of the court on these?

No. There has been no court case against the college during the last four years.

6.2.11 Does the institution have a mechanism for analysing student feedback on institutional performance? If ‘yes’, what was the outcome and response of the institution to such an effort?

- Yes, there are several feedback mechanisms in place, such as PTA meetings, Alumni meetings, and other informal methods.
- Campus surveys conducted every year gives a feedback on the basic facilities in the campus. Campus survey outcomes are discussed in respective committees in the College Council or with the Management by the Principal.
- The feedback on teachers is analyzed by the Principal and concerned HOD, and corrective measures are taken. Many initiatives have been taken by departments based on student’s feedback on teaching- learning methods.
- The women’s waiting shed was renovated and incinerators installed based on the feedback from the girl students of the college recently.
- The suggestions and complaints deposited in the Box are addressed accordingly and promptly.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non- teaching staff?

- Faculty members are motivated to attend orientation, refresher and other training programmes regularly. They are also encouraged to avail of research grants, fellowships and projects to enhance academic quality. Many teachers are resource persons in such seminars. Many teachers have acquired additional degrees while in service.
- Workshops are organised for the staff in ICT applications, teaching methodologies and research methodologies. The teachers are also encouraged to organize seminars, workshops and conferences in the departments, and to participate in the same.
- The Management extends full support in the efforts to enhance the P.G. Department to Research Centres and U.G. Departments to P.G. Departments.
- Non- teaching staffs are given training to develop their computer skills and training in SPARK.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- The institution promotes participation of its staff in refresher courses, orientation programmes, summer schools, seminars, workshops, conferences etc., and also to organise such programmes.
- Teachers are given additional responsibilities of coordinating clubs, forums and committees. They are given freedom to discharge their duties judiciously.
- All the facilities of an advanced library, modern technology, and a healthy academic atmosphere are provided for the staff.
- Due recognition and appreciation are given to achievements and services of the staff by the staff club and other open forums, as well as on the website of the college.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- To evaluate the performance of faculty in teaching, research and extension programmes, the college follows the mechanism of performance based appraisal system (PBAS). The IQAC collects and assesses these appraisals. Based on this assessment, the teachers are informed of the areas of their profiles that need improvement.
- The IQAC makes a yearly assessment of faculty profiles, dealing with all the aspects of teaching, and research.
- A questionnaire in the regional language is prepared and used to collect feedback from parents about the performance of teachers as well as the college in general.
- At the college level there is a Teacher Performance Diary for the use of teachers. In this book there are provisions to record all the curricular and extra-curricular activities that are taken up by the person concerned. The teachers are required to submit self-appraisal to the Principal duly attested by the HODs.
- Student feedback mechanism is implemented and utilized to evaluate teaching performance and make improvements.
- The Principal holds meetings with the administrative staff with a view to discuss problems and explore reforms in administration

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

- The data collected through the performance appraisal are processed, evaluated and reported to management.
- The management also evaluate the performance of the faculty.
- Teachers compensate classes lost due to leave taken by them by engaging extra classes
- From the recent Self-Appraisal profiles it is evident that most of the teachers engaged extra classes with a view to compensate loss of classes and this in turn has contributed to a significant improvement in University examination results.
- Teachers are advised to undergo Orientation as well as Refresher Courses.
- During the last five years, the Research Output, Number of Projects, Participation in Seminars etc. have increased significantly.

6.3.5 What are the welfare schemes available for teaching and non- teaching staff? What percentage of staff have availed the benefit of such schemes in last four years?

- A Government approved financial institution called the S.D.College Employees Co-operative Credit Society Ltd. No. A753 caters to the financial well being of the staff. It mobilizes the savings of the teachers and non-teaching staff of the college as well as issue personal loans. Personal loans up to an amount of Rs. 8 Lakhs can be availed from the society. Emergency loans and chitty schemes are available with this society.
- College canteen provides food at subsidized rates.

- All statutory welfare schemes such as provident fund, pension scheme, earned leaves and other leaves, group insurance, family benefit scheme, state life insurance, etc have been implemented.
- Management provides financial support to the staff on a refundable/ non-refundable basis as and when they require.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

- Faculty recruitment is merit based.
- Academic freedom is provided to the faculty.
- Extending facilities for research work.
- Facilities provided for the career advancement of the staff members.
- Adequate library facility is provided.

6.4 Financial Management and Resource Mobilisation

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

- Budgetary provisions and financial accounts are prepared by the Principal, Management, in consultation with the Vice Principal, the Administrative Assistant, College Council and IQAC.
- The college has a Planning Committee chaired by the Principal for the purpose of allocating funds for infrastructural activities. The Co-ordinator is Dr. S Rajesh Kumar, Associate Professor in Economics.
- In consultation with the Principal, Planning Committee, IQAC and the College Council, the Manager makes decisions on the allocation of the available finance on a priority basis.
- All projects and programmes that involve financial commitment are under the supervision of committees constituted for the purpose, with a coordinator..
- Statutory Audit and Management Audit are held regularly and recommendations are implemented.
- Store Purchase Manual of the Govt. of Kerala and UGC norms are strictly adhered to with respect to all activities involving financial outlay.
- The above measures facilitate specialization and decentralized financial control as well as effective and efficient use of available financial resources.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

- The Management conducts internal financial audit every year.
- The statutory financial audit is conducted during April every year and reports are sent to UGC, DST and National and State Govt. agencies.
- The Directorate of Collegiate Education (DCE) and the affiliating University seek annual financial statements which serve the purpose of an audit.
- The accounts of sponsored projects/ seminars are audited by Chartered Accountants and audited statements are sent to the sponsoring agencies.
- The audit wing of DCE as well as Accountant General's Office conduct periodical statutory audits on all financial transactions based on public funds.
- There were no major audit objections recently.

6.4.3. What are the major sources of institutional receipts/ funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

- The college being an aided private institution, the salary of the staff is paid by the Govt. of Kerala.
- The development projects are funded by the UGC, DST, KSTSCE, etc under various schemes such as UGC Plan Grant, UGC-Major and Minor Research Project Grant, DST-FIST Grant, SARD etc.
- Special fees, tuition fee, etc collected from students are other sources of receipts.
- We have Alumni Associations and PTA. The alumni, parents, benefactors, staff and Management complement the deficit.
- The deficit for the conduct of seminars, conferences, extra and co-curricular activities is usually compensated by local sponsors, Management and PTA.
- Students are given scholarships/ stipends and other incentives by various governmental agencies.
- The Management is the major source of funding for all infrastructural and other matters.

6.4.4. Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

- The Principal and the RMC ensure proper utilization of the funds as per the allocation and guidelines of the funding agencies.
- The Management makes substantial financial contributions to many initiatives. Deficits are often managed through individual contributions from staff members.
- The PTA is playing an active role in providing additional funds for the development of the college.
- The Alumni Associations have made financial contributions in many departments, but this is an area that has yet to be tapped effectively.

6.5 Internal Quality Assurance System (IQAS)

6.5.1(a). Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes ?

- The College established an Internal Quality Assurance Cell on 1/3/2005 and was reconstituted as per NAAC guidelines issued from time to time.
- Principal Dr.S.Nataraja Iyer is the Chairman and Dr.V.R. Prabhakaran Nair, Assistant Professor, Department of Economics, is the Coordinator. There are 26 members in the IQAC.
- The IQAC develops frameworks for the effective implementation of the policies and action plans of the institution in all aspects of infrastructure, teaching – learning, research and extension activities, and submits it to the Principal and College Council for implementation.
- The IQAC activates the system, and raises the institutional capabilities to higher levels to assure improvement in quality.
- The IQAC facilitates the creation of a learner-centric environment conducive

to quality education and faculty maturation. It maintains all files related to quality enhancing initiatives.

- The IQAC designs work plans, work diaries, student feedback forms etc and monitors the teaching-learning-evaluation process, and makes suggestions for improvement.
- Conducts workshops and seminars on quality-related themes
- Conducts internal academic audit every year
- Collects feedback response from students, parents and alumni on the institution and curriculum
- The IQAC maintains documentation of the various programmes and activities leading to quality improvement.
- Online transmission and documentation of internal marks
- Steps have been taken to improve UG and PG labs.
- Prepared a consolidated list of publications from all departments
- Introduced group-mail communication system in the college
- Constituted a committee for monitoring research projects
- Acted as catalysts for infrastructure development in the college
- Monthly meetings to monitor quality enhancement and sustenance.

6.5.1(b). How many decisions of the IQAC have been approved by the management /authorities for implementation and how many of them were actually implemented?

Table 6.3: Suggestions/decisions of IQAC-Status of Implementation

Sl. No.	Suggestion/ decision of IQAC	Status
1	Induction/ Orientation programme to all newcomers	Implemented
2	Awareness programme on the prospects of different open courses offered by the college under CBCSS	Implemented
3	Arrange 'Smart Class Rooms' in every department.	Partially Implemented
4	Renovation and upgradation of Science Labs	Implemented
5	New Computer Centre and more PCs	Implemented
6	Improving the infrastructure and performance of the College Library	Implemented
7	Infrastructure development with tiling, new toilets and new roofing	Implemented
8	Open House to collect feedback about teachers, college, etc.	Implemented
9	Renovation of women's waiting room and installation of incinerators	Implemented
10	Construction of new academic block with examination hall	Under construction
11	Use of more solar energy	Initiated
12	Construction of a Common Instrumentation centre and reconstitution of Academic and Research Forum	Implemented
13	New block in ladies hostel and renovations of old buildings	Implemented
14	Furnishing of the lab for the SARD project under KSCSTE	Implemented
15	Internal Academic Audit every year	Implemented
16	Use of ICT methods at all levels.	Partially implemented
17	High Speed Internet connection	Implemented
18	Water Harvesting facility	Under Implementation
19	New upgraded IQAC room with audio-visual facility	Implemented
20	Undertaking more research projects	Implemented
21	Publication of more research papers in refered journals	Implemented

22	Strengthen the departmental Alumni Associations	Implemented
23	Online transmission and documentation of internal marks	Implemented
24	Ensure uninterrupted power supply	Implemented
25	Effective Water supply and drinking water facility	Implemented
26	More attractive and informative college website	Implemented
27	Partnership in Additional Skill Acquisition Programme (ASAP)	Implemented
28	Applying for FIST- DIST and construction of new block for FIST facility	Under implementation
29	Twelve station gym, indoor stadium under sports infrastructure development	Under implementation
30	To upgrade PG departments as Research Centres	Implemented
31	Start new academic programmes	Partially Implemented
32	Re-activated the Career Guidance and Placement Cell	Implemented
33	To establish MoUs with institutions /industries	Implemented

6.5.1(c). Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

- Mr. Shibu Lal, Former CEO, Infosys, Mr. Ramanand, Co-ordinator of Centre for Continuing Education in Kerala and Sri. G Sudhakaran, Honourable Minister of Public Works etc are valued external members.
- Mr. G. Sudhakaran provided computers to the Computer Centre.
- Mr. Shibu Lal was instrumental in the construction of the PG block of Physics.

6.5.1. (d). How do students and alumni contribute to the effective functioning of the IQAC?

- The Alumni gives feedback on all academic and infrastructure facilities and often contribute to development initiatives. have also conducted seminars for students on entrepreneurship and other careers.
- The students give feedback on college performance to IQAC. There are two student members in the IQAC.
- Three of our alumni serve the IQAC in different capacities.

6.5.1(e). How does the IQAC communicate and engage staff from different constituents of the institution?

- The IQAC consists of 8 core members from faculty, management, two from administrative staff, one student representative, ex-officio members and external members.
- The IQAC communicates with all staff through e-mail.
- The IQAC has two Notice Boards fixed in front of the main office and the IQAC room.
- Suggestion and feedback boxes are also installed in the college by IQAC.

6.5.2. Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation

- Continuous evaluation of performance of students through internal and external evaluations under the CBCS System.
- ICT enabled teaching-learning process is ensured
- Classroom teaching complemented through student-centered methods such as

- seminars, assignments, creative writing, group discussions, instant quizzes, etc.
- Use of library and Internet resources by students is encouraged and rewarded.
- Teachers are encouraged to improve their qualifications, participate in exchange programmes, refresher courses, etc.
- Documents such as teacher's performance record, tutorial work record of students etc. have been maintained to ensure proper performance/delivery of teacher expertise.
- A college level general timetable is adopted for the effective and efficient implementation of the curriculum.
- Feedback is collected and analysed regularly for ensuring quality.
- Office automation and networking has been initiated to make administration effective.
- Admissions, Internal assessments, attendance, etc. are computerized and data are made readily available.

6.5.3. Does the institution provide training to its staff for effective

Implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

- The teaching staff is encouraged to participate in seminars/workshops/conferences conducted by the higher education council, professional bodies, universities, etc.
- **The IQAC facilitated the conduct of the following seminars/workshops:**
 - ❖ KSHEC sponsored Three day Workshop on General Informatics, 22-24 Sept 2011, with external and internal resource persons.
 - ❖ Workshop on the newly introduced RUSA by MHRD was held in 2014.
 - ❖ Seminar on "Quality Standards and Benchmarking in Higher Education" was held in 2014.
 - ❖ Seminar on "Promoting Quality Education through Student's Participation" in 2012.
 - ❖ Seminar on "Challenges and Opportunities in Accreditation and Assessment." in 2013.
 - ❖ Faculty Development Program on "Teaching-Learning Methodologies" in association with Teaching Learning Centre, IIT, Chennai.
 - ❖ Workshop on "Quality Sustenance for Re-accreditation", on January 8th, 2016.

6.5.4. Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

- Internal academic audits have been conducted annually.
- An external audit for assessing the performance of the college has been recently started and the first one was conducted in 2016.
- Audit Reports with recommendations for improvement are given to departments and the progress has been constantly monitored.
- Every year the IQAC, the College Council and the Management closely evaluate the performance of students in the university exams and national level tests.

6.5.5. How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

- The IQAC has been constituted as per the NAAC guidelines. The Cell monitors all quality assurance measures.
- Quality bench marks have been developed and insisted on with regard to the performance in exams, research publications, sponsored projects, etc.
- Internal academic audit and external audit have been regularly conducted in tune with NAAC guidelines.

6.5.6. What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- Teacher performance record, internal evaluation by test papers and assignments, feedback system etc. are the major mechanisms to review the teaching learning process.
- A mentoring system is adopted and tutorial work record is kept for every student to closely monitor the progress of the student.
- Feedback is collected from all stakeholders and the teaching-learning process has been reviewed regularly.
- HODs are entrusted with the task of ensuring effective teaching learning process and the lapses, if any, are reported to the Principal.
- Semester-wise PTA meetings are conducted and score sheets given to parent.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The college resorts to the following means to communicate its quality assurance policies to the stakeholders:

- Group mail by the Principal
- Website of the College
- College Notice board and circulars
- College calendar and handbook
- News Letters and College Magazine
- Periodical Reports to UGC, University, NAAC, and Govt.
- Press releases

6.5.8. Any other relevant information regarding Governance, Leadership and Management which the college would like to include.

The Sanatana Dharma Vidyasala, is the most prominent educational agency in Alleppey District. It owns and manages one college and two schools in the aided sector and one school and a self financing college in the private sector. This institution has been playing a significant role in the educational upliftment of the youth in and around the districts of Alleppey, Kottayam, and Ernakulam. The college has a well founded reputation in academics, research, and achievements in culture and sports. The college has made dedicated efforts to sustain and enhance the quality of higher education and research, and has contributed to the betterment of society by moulding generations of citizens committed to the values of knowledge, truth, secularism and freedom.

CRITERION VII

INNOVATIONS AND BEST PRACTICES

7.1. Environment Consciousness

7.1.1. Does the Institute conduct a Green Audit of its campus and facilities?

- A Green Audit was conducted in the campus in 2015-2016. Enumeration of trees and plants are also done every year.
- The campus, spread over acres, has a green cover and canopy of numerous trees, providing plentiful shade and an oxygen rich atmosphere.
- The campus has a natural beauty and charm, with a rich bio-diversity. The plants and trees in the campus are well kept, and regularly maintained.
- The staffs, students and all the stakeholders of the college are committed to protect and preserve the environment. There is a concerted effort towards inculcating and perpetuating an environmental consciousness in the campus.
- The college has taken up the practice of environment protection and bio-diversity conservation as a best practice through green platforms like Haritha Sanatanam and Bhoomitrasena Club.
- Environmental consciousness is also perpetuated through the various clubs and forums like the NSS, NCC and the Eco Club. Tree planting ceremonies are held on important commemorative days.
- A member of the staff of the Botany Department and the Co-ordinator of the Bhoomitrasena Club, Dr.Unnikrishna Pillai, served in the Bio-diversity Department of the Government of Kerala on deputation. His experience in the field has helped the functioning of many eco-friendly initiatives.

7.1.2. What are the initiatives taken by the college to make the campus eco-friendly?

- **Haritha Sanatanam** was launched as an initiative to spread environmental consciousness and eco-friendly initiatives among the students, staff and other stakeholders.
- The **Bhoomitrasena Club** (Friends of the Earth) was formed and a practical programme of planting and maintaining trees, vegetable and herbal garden was chartered.
- Seedlings were planted as part of an afforestation programme, and vegetable gardens were prepared. The students were involved in all the activities of planting and nurturing the plants. The produce was shared among the staff and students.
- This venture was a holistic experience for the students involved in it. The students developed close bonds with nature, and learned to value the symbiotic relationship between man and earth.
- These activities were supplemented by academic lectures and awareness programmes conducted by the faculty of the college, as well as invited resource persons. Campus cleaning drives are also held once a year.
- Apart from the large number of trees and plants providing shade, there is a well-maintained herbal garden in the campus, with varieties of medicinal plants and rare herbs. This includes the “dashapushpam”, or the ten valuable medicinal herbs used in Ayurvedic preparations.

- Tree planting ceremonies are held to commemorate important events like Gandhi Jayanthi. When the former Indian President Dr. APJ Abdul Kalam passed away in 2015, the students of the English Department planted a tree in his memory.
- A unit of the **National Environment Awareness Campaign (NEAC)**, a project that works towards environmentally sustainable development, and comes under the Ministry of Environment, Forests and Climate Change (MOEF), was set up in the college. It works towards promoting awareness about environmental conservation and preservation of biodiversity, and is a participatory learning platform for students, teachers and the local public about environmental issues.
- A herbal nursery was set up utilizing the amount sanctioned by the MOEF along with individual contributions. 45 plant varieties including medicinal plants, as well as fruit bearing tree saplings, were planted.
- A **docu-fiction film** titled “**Uravu**” was produced and screened. The film focused on traditional medicinal practices and environment conservation. It had a huge impact on the students with regard to awareness on bio diversity issues.
- A seminar on ‘Biodiversity Conservation: Traditional Medicinal Practices and Health Care in the 20th Century’ was organized with more than 250 participants from various disciplines, public, students and media. Resource materials which were distributed also popularized the theme of bio-diversity conservation with special emphasis on traditional medicinal plants.
- The students of the Zoology Department, under the guidance of Dr.G.Nagendra Prabhu, submitted a project on the innovative recycling of aquatic weeds, which won the Mathrubhumi Seed Spark Award in 2013. The project worked towards an innovative way of recycling the most common aquatic weed that has infested the canals and backwaters of Alleppey.
- The project was taken forward by the Centre for Aquatic Research and expanded with the collaboration of the ED club. The innovative products developed from the aquatic weeds were displayed and sold through the initiatives of the ED club, through exhibitions and fests that included students of all departments. Regular exhibitions and seminars were conducted to expand the activities of the project. The project has created awareness and a pro-active attitude in the minds of the students towards environmental consciousness and re-cycling of weeds.
- Dr.Nagendra Prabhu also won the Rural Innovator Award in 2014, instituted by the KSCSTE, Govt of Kerala at the Rural Innovators’ Meet. Dr. Prabhu bagged the prestigious FLAIR Research Excellence Award of 2015 for this same project.
- The Drama Club organised street plays on themes of social and environmental relevance in the campus, as well as in Alleppey town. This has helped to develop an environmental consciousness among students, and inspired them to spread the message of environment conservation among the general public.
- Waste management is practiced wisely. E-waste is collected and stored separately and disposed every year.

7.2. Innovations

7.2.1. Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

- ✓ Choice Based Credit and Semester System was opted for UG courses and PG courses.

- ✓ Smoothly functioning internal assessment system in place with assignments, test papers, seminars, projects etc.
- ✓ Tutorial system put in place, with scope for redressal of grievances. Open houses arranged for parent –teacher-student interaction.
- ✓ Extension activities like clubs, forums, NSS, NCC, WSC etc and Open Courses promote independent learning and academic flexibility.
- ✓ A new UG course in Biochemistry was introduced. PG course was started in Malayalam.
- ✓ ICT enabled teaching- learning is widely used.
- ✓ Modernized smart rooms, laboratories and language labs.
- ✓ Online Centralised admission process implemented.
- ✓ Online registration for enrollment, examinations and internal assessment. Internal online transmission for internal assessment.
- ✓ Office automation and networking.
- ✓ Library updating, expansion and automation. INFLIBNET and NLIST facilities made available.
- ✓ FIST project implemented.
- ✓ Faculty availed of research fellowships, research awards, TFS, associateships, academic deputations etc. Many faculty received awards and other recognitions.
- ✓ Many PG Departments made Research Centres.
- ✓ Academic and Research Forum and Research Monitoring Cell initiates and monitors research projects and grants.
- ✓ Publication of Research Journal.
- ✓ Memorial lectures and invited lectures by distinguished scholars and dignitaries in different fields.
- ✓ Smooth and pro-active functioning of IQAC in assuring quality sustenance.
- ✓ Career Guidance and Placement Cell ensures imparts skill training, career – related information and advice, and ensures placements. Coaching classes arranged for bank tests and other competitive exams.
- ✓ ASAP (Additional Skill Acquisition Programme) implemented in collaboration with Dept of Higher Education, Govt of Kerala.
- ✓ Walk with a Scholar, the mentoring programme for bright learners adopted in collaboration with Govt of Kerala.
- ✓ Student Support Programmes and remedial coaching provided for slow learners.
- ✓ UGC/CSIR/NET/JRF coaching imparted to students.
- ✓ Eco-friendly platforms like Harita Sanatanam and Bhoomitrasena club were formed and environment friendly programmes initiated.
- ✓ NEAC, SD College Unit formed in collaboration with MOEF.
- ✓ Reading Week celebrations, literary magazines, dramas and cultural fests organized.
- ✓ Sports facilities upgraded.
- ✓ High speed Internet Broadband connection.
- ✓ Alumni Association sponsored initiatives.

- ✓ Regular PTA meetings held.
- ✓ Infrastructure development with the help of various stakeholders

7.3. Best practices

7.3.1 Elaborate on any two best practices which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality Improvement of the core activities of the college.

Best Practice I *Annam Sanatanam*

1. Title of the Practice: “ANNAM SANATANAM”

2. Goals

Although Kerala is a fairly developed and progressive state, food scarcity can be experienced due to various reasons. There are many people who do not have regular incomes; many patients in hospitals might not have access to food at the right time, and a hospital visit might upset the expenses of a household. Inmates of old age homes and orphanages can also face unexpected food shortages at any time. As members of this society, it is the duty of every citizen to extend a helping hand to hungry and needy fellow beings.

In this materialistic age when human values are being rapidly eroded, and care and concern for humanity is taking a back seat, it falls within the duty of every educational institution to inculcate such values to the student community. The onslaught of cyber culture has also resulted in the decrease in the level of social awareness and commitment among the younger generation. They should be creatively and sincerely involved in such welfare activities that could serve towards providing value education along with their academic activities.

“**Annam Sanatanam**” was started with these lofty ideals and good intentions. The goals of the programme include

- Creating awareness about society and societal concerns
- Inculcating values of social commitment
- Inculcating an attitude of care, concern, generosity and readiness to help those in need
- Providing training in responsible citizenship, personality development, and organizational skills
- Moulding morally upright, spiritually mature and emotionally balanced citizens

3. The Practice

“**Annam Sanatanam**” was started as a collective initiative by the Management, teaching staff, non-teaching staff and students of the college. A general meeting was held on 7/10/2015 and a committee was constituted for the smooth conduct of the programme. The committee consists of members of the Management, the Principal and other members of the teaching faculty and non-teaching staff, and the students. “**Annadanam Mahadanam**” was selected as the motto of the programme. An action plan was chalked out and the programme was launched with immediate effect, with the Manager Shri. J. Krishnan inaugurating “**Annam Sanatanam**” on 15/10/2015.

The students are asked to bring an extra packet of home-cooked food, along with their daily lunch packets on a particular day. The contribution is voluntary, and

Thursday was decided as the day for “**Annam Sanatanam.**” The students who are willing to donate food give their names to the staff member in charge on the previous day. The food packets are collected from the students department -wise by the teachers and non-teaching staff. A minimum of 50 packets is collected from students, teachers and non-teaching staff of each department. The food packets are then distributed to the target group through a social worker.

Mr. Devassia, a social worker who has been working with voluntary groups for many years now, has associated himself with this project. He collects the food packets and distributes it to needy patients in the General Hospital and the Medical College Hospital in Alleppey, as well as in old age homes. Associating with him has been a novel experience for everyone involved. It has been a learning experience for us to observe the care and commitment of Mr. Devassia towards the poor and needy in society. As a humane and committed individual, he has proved to be a wonderful role model to the students and staff of this college.

4. Evidence of Success

The names of students contributing food packets are published on the notice board of the departments, and recorded in a log book, signed and sealed by the Principal every week. The staff and students are whole heartedly participating in this programme, which has had a positive impact on the attitude of the students towards their social responsibilities. They have been showing great enthusiasm and willingness to participate in the programme, and often take the initiative to do it without any prompting from the staff. This programme has thus proved to be a promising initiative towards creating a pro-active attitude among the students towards issues concerning the larger society. The slogan “Annadanam Mahadanam” has indeed been taken up in full chorus by the entire institution and practiced in the true spirit of love and generosity.

Best practice II

Skill Enhancement and Career Guidance Programme

1. Title: Skill enhancement and career guidance programme

The college has been running the **Additional Skill Acquisition Programme (ASAP)** from the year 2012 in a very successful manner. We are a recognised centre for the ASAP programme of the Government of Kerala, with five star status. In addition to this programme, the college has started a comprehensive **Skill Enhancement and Career-guidance Programme** under the leadership of the Career Guidance and Placement Cell. We conduct regular skill development classes, training sessions and career counselling to empower the students to excel in the highly competitive job market.

2. Goal

The market-oriented and knowledge-based economies of today’s globalised world demand skilled manpower. Imparting skill education is the only answer to this demand. The programme helps students

- to build a professional career by providing skill development sessions in order to equip students to help them succeed in the highly competitive job market and to make them job-ready personnel
- regular career counselling sessions provide students with information about the job market, and helps them to plan their careers

- placement drives provide students with opportunities to secure jobs in a comfortable setting
- To develop soft skills like intra-personal skills, communication skills, presentation skills, management skills, team work, problem solving, leadership skills, public speaking, etc
- Fostering the learning of Core Skills - IT skills, job specific skills, awareness about the global requirements and standards of industry, etc.
- Promoting the student's holistic growth by imparting values of work ethics, social consciousness, proactive leadership, good manners and personality development.

3. The Context

The changing global scenario demands a shift in perspective regarding the context and quality of knowledge imparted in universities. A purely curriculum based approach will neither help students make right career choices, nor equip them for the demands of the job market. It is necessary to given them the required knowledge about career prospects and orient them towards making right career choices. Skill-based knowledge is the need of the day. The increased use of technology in all aspects of learning has necessitated additional skill-based training as part of education. Lack of skill-based training has resulted in a marked decrease in the employability of the youth in Kerala, thereby causing deterioration in the general living standards in the state. Most of the students come from a semi rural background, with limited opportunities for skill acquisition. They possess very little awareness about the global employment scene, and are quite intimidated by the skills required to succeed in the highly competitive job market. It is in this context that the college introduced the ASAP programme and a comprehensive Skill Enhancement and Career Guidance Programme under the aegis of the Career Guidance and Placement Cell.

4. The Practice

- The State Government along with the Department of Higher Education and General Education launched a project named **ASAP** (Additional Skills Acquisition Programme) in 2012, to address this challenge. The aim of the project is to increase skills in various fields including Communicative English, Soft Skills and IT skills. S.D. College, which is a training partner in this programme, conducts training programmes for selected graduates equipping them to be self-sufficient and employable.
- The first ASAP programme was held from April 26 to May 16, 2013. A group of students up to thirty in number were selected, based on their marks and an interview. They were then given a twenty one- day residential training by three Master Trainers of ASAP, who belong to the Department of English of the College.
- The training programme spotlights each student as a prospective Skill Development Executive (SDE) who in turn will train students of the Higher Secondary Level in various schools. The students were given training in Communication Skills in English, Confidence Building, Team Work, Public Speaking, Creative Thinking, Inter personal and Intra personal Skills /Soft Skills, IT Skills.
- The second ASAP programme was held from July 1 to July 21, 2013. This time too, the practice described above was followed. Thirty two trainees were taken into the

programme and trained successfully. 80 % of the trainees qualified and are now employed as SDEs in various schools all over Kerala. The method used is Interactive, where the target group learning is activity-based. The trainees are required to take an online examination called APTIS conducted by the British Council at the end of the training period. The trainees who qualify the exam receive a certificate of International validity.

- The third ASAP Programme was conducted from May 7 to May 27, 2015, again as residential programme with thirty students from various colleges. The Master Trainers are trained faculty from the English Department. As many as five faculty have become Master Trainers.
- The ASAP programme for the year 2015-2016 is scheduled to be held in the months of April- May 2016. The student interviews have been completed and the Master Trainers have attended the training programme.
- This programme is conducted with the financial assistance of the Government of Kerala. The funds received are utilised for the food, accommodation and stationary of the trainees and the remuneration for the Master Trainers/Resource Persons.
- The programmes were rated with Five Star based on the feedback from students.
- The Career Guidance and Placement Cell has been providing career guidance sessions, training programmes and skill enhancement classes for the past few years now.
- The areas covered included information on career awareness and job opportunities, banking and management, ITC skills, communicative skills and soft skills, group discussions and interviews.
- CGPC also took the initiative to hold campus recruitment drives. These efforts culminated in several nationalised banks and other companies coming to the campus for recruitment. Among the banks who came for recruitment in 2012-13 was the South Indian Bank and Federal Bank; and the companies were Sunpharma, S D Pharmacy and Wipro.
- Out of more than 100 students who applied, shortlisting was done by South Indian Bank and a final list of 94 students was selected for the final Group Discussion and Personal Interview. The group discussion was conducted in the college and the final interview was conducted at the Head Office of South Indian, at Thrissur. 6 candidates were selected after the final interview and offer letters were issued to them by the bank.
- Prior to the final GD and interview, a team of three faculty members gave specific inputs on GD and interview tips. Members of the faculty as well as resource persons from other institutions provided training for the students. Faculty from the Department of Commerce held detailed sessions on banking and related areas. Faculty of the English department gave valuable tips on professional etiquettes, body language, communication skills- both written and spoken. The facilities of the language lab and computer lab were used for this purpose.
- Efforts were made towards holding campus recruitment drives in the next year too. As many as thirteen students were placed in banks and other companies in 2013-14.
- The year 2014-15 saw a more structured functioning, with a committee of two representatives from each department being nominated. The students' feedback was gathered to decide on the pattern of functioning of the Cell by looking into the requirements and needs of students from different disciplines.

- Based on the feedback from the recruiters, it was decided to offer coaching classes for bank exams under the co-ordinatorship of the Commerce department. The areas covered include clerical and numerical aptitude, mental ability and logic, general knowledge and verbal skills.
- HCL conducted a pooled recruitment drive at S.D. College, and selected one candidate. ICICI Bank conducted recruitment drive at our campus and at Kristu Jyothi College, Changanassery and 17 students were selected from S.D. College.
- Most department offer UGC/CSIR, NET/JRF Coaching classes to students.
- The Entrepreneurial Development Club (ED club) has been functioning well, actively promoting innovative and entrepreneurial skills of the students. Fests are held to display and sell the products developed by students, including food, arts and crafts items. The ED club organised an exhibition and fashion show of handloom textiles in collaboration with the government handloom store Hanveev in 2014. The ED club also collaborated with the Centre for Aquatic Research to promote the innovative products produced from recycled aquatic weeds.

5. Evidence of Success

These efforts have resulted in an enhanced performance rate by the students in competitive examinations. As many as 40 students have been placed in various organizations during the past three years. The ASAP programme has entered its fourth successful year, with the college bagging five star status. All these initiatives have had a positive impact on the students, in terms of increasing their employability, enhancing their confidence level and improving their academic performance.

6. Problems Encountered

Since most of the students come from a rural or semi-rural background, lack of exposure affects their self-confidence. Motivating them to avail of these initiatives is itself a challenge. The lack of time due to the rigours of the Semester system and the delays in examinations has adversely affected the time-bound implementation of many of these initiatives. The generation of funds has also been a problem for the Career Guidance and Placement Cell.

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3. EVALUATIVE REPORT OF THE DEPARTMENTS

POST GRADUATE DEPARTMENT OF ENGLISH

1	Name of the Department	P.G DEPARTMENT OF ENGLISH
2	Year of Establishment	1946
3	Names of Programmes/ Courses offered	B.A Eng Language & Literature, B.A Communicative English, M.A English Language.
4	Names of Interdisciplinary Courses and the Departments/units involved	Two Open Courses are offered in the fifth Semester for U.G. students of other departments.
5	Annual/semester/choice based credit system (programme wise)	B.A-Choice Based Credit and Semester System M.A-Semester System
6	Participation of the Department in the Courses offered by other Departments	Six papers (Language Course and Foundation Course) are offered as Second language in all other Departments from Sem1- 4. Open Courses (5th Sem) viz., Communicative Applications in English Translation Studies
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses /programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	8	8
Assistant Professors	10	10

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./MPhil.Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years
1	Praseeda Varma. R	MA, M.Phil	Associate Professor & Head	Language Studies Shakespearean studies	28 years	--
2	R.Sathy	MA, M.Phil, PhD	Associate Professor	ELT Fiction	28 years	--
3	R. Indulal	MA., NET, JRF	Associate Professor	Film Studies, Literary Theory, Linguistics	28 years	--
4	Ramachandran Nair D.	MA, NET	Assistant Professor	Literary Theory Cultural Studies	28 years	--

5	Dr. Leena.P.Pai	MA, M.Phil, PhD, NET	Assistant Professor	Narratology Indian Aesthetics	26 years	--
6	R.Suresh	MA	Associate Professor	Drama Fiction	26 years	--
7	N. Saraswathy Antharjanam	MA, M.Phil	Associate Professor	Eco Aesthetics	26 years	--
8	Dr. E.Krishnan Namboothiri	MA, B.Ed, M.Phil, PhD	Associate Professor	Eco Criticism, Indian Writing	26 years	--
9	Dr. Bindu Nair	MA, M.Phil, PhD, NET, JRF	Associate Professor	Gender Studies Subaltern Studies Linguistics	24 years	--
10	Tommy John	MA, B.Ed, PhD NET, JRF	Associate Professor	Translation studies Modern Fiction	24 years	--
11	S. Devi	MA, B.Ed., NET	Assistant Professor	Comparitive literature	3 years	--
12	Karthika. R	MA, NET	Assistant Professor	Modern Fiction Literary Theory	4 years	--
13	Krishnanand A	MA, NET	Assistant Professor	Post Colonial literature Indian Aesthetics	4 years	--
14	Neetha Prasad	MA, M.Phil NET	Assistant Professor	Film Studies Poetry	3 years	--
15	Saritha M	MA, B.Ed NET	Assistant Professor	ELT Communication Studies	3 years	--
16	Aswathy S	MA, B.Ed NET	Assistant Professor	Eco-criticism Post colonial literature	6 months	--
17	Arathy S	MA, B.Ed NET	Assistant Professor	Film Studies	6 months	--
18	Parvathy R	MA, B.Ed NET	Assistant Professor	Subaltern Studies Phonetics	6 months	--

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	11	11	5	11	11
P.G.	5	5	0	5	5

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. (Core)	12:1	12:1	12:1	14:1	14:1
P.G.(Core)	2:1	2:1	2:1	2:1	2:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Sanctioned –Nil

Filled –Nil

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/ M.Phil/ P.G.

Number of present faculty members with highest degree		
Ph.D.	M.Phil.	M.A.
5	6	10
*Qualification of each faculty is given in item No.10 above.		

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

(a) National:

Sl. No	Name of the Project Holder	Funding Agency	Amount (Rs.)	Level of Completion/ Year
Ongoing projects				
1.	R. Karthika	UGC	1,25,000	Ongoing
2.	Neetha Prasad	UGC	2,50,000	Ongoing

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc. and total grants received: NIL**18. Research Centre/facility recognized by the University : NIL****19. Publications per faculty****BOOKS/EDITED BOOKS/CHAPTERS IN BOOK**

Sl. No.	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1.	Dr. Tommy John	Kingdom War	Translation	Forthcoming
2.	Dr. Tommy John	Chorasastram	Translation	DC Books (Forthcoming)
3.	R. Indulal	“Red in Tooth and Claw: An Archaeology of Screen Violence” in Art vis-à-vis Violence	Chapter in edited Book	University College, Mangalore. 2014
4.	R. Karthika	‘Re-tracking’ the Celluloid: History, Politics and Popular Culture in Films	An Academic Collection of Essays on Film Studies	PG Dept. of English, N.S.S College, Pandalam, 2014, ISBN 978-81-928481-0-5

JOURNAL ARTICLES

Sl. No	Article Title	Author/ Co-authors	Journal Title/Details	
1.	Dr.Bindu Nair	Early Tribal Society and the Ecological Paradigm	Critical Encounter :A Journal of Literary Studies	Vol.1, Issue1, Jun 2015, 47-60.

			Vol.1, Issue1, June 2015, 47-60. ISSN 24522083	ISSN 24522083
2.	Radhika K.S	Re-Presentations of Environment in Travel Writings: A Study of Dalrymples's Nine Lives	Pursuits	Vol 9, 2011
3.	Karthika R	The Polemics of Power Transmission: A Study on the Cultural Hybridization in Indian Cartoons	The Hamlet Review: A peer reviewed bi-annual e-journal	ISBN:2395-1923 Vol-1 Issue -1 March 2015
4.	Neetha Prasad	Nation Finding its Space in the Narrative Discourses of the Region:A Re-reading of Uroob's Sundarikalum Sundaranmarum and S.K Pottekatt's Oru Desathinte Katha	The Hamlet Review :A peer reviewed bi-annual e-journal	ISBN: 2395-1923 Vol-1, Issue -1 March 2015
5.	Neetha Prasad	Insane Ramblings of a Mind (poem)	Tipton Poetry Journal	Issue 26, 2014
6.	Aswathy S	"Bandurga – Byaghradevi folk legends in Sundarbans"	The Quarterly journal of the Mythic Society.	Vol. 106 Issue No. 1, January – March 2015, Page Nos 51 - 54
7.	Aswathy S	O. V. Vijayan's Madhuram Gayathi as an Apocalyptic Narrative	Malayalam Literary Survey	Vol.35 Issue.4 Feb,2016
8.	Krishnanand	Blurring of the Borderlines?: Reality, History and Mythology in Seamus Heaney's "At a Potato Digging" and "The Tollund Man	Transculturation in Contemporary British and American Poetry	28-33 2013
9.	Krishnanand	"Life Express"(Poem)	Trivandrum Literary Supplement	June, 2015

Popular Publications

1.	Dr.Bindu Nair	Foreign to the Foibles of an Indian Language	The Hindu dated 23/2/2016	
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20. Areas of consultancy and income generated:

Sl. No.	Details of Project/activity	Type / Type of Consultancy	Period	Beneficiary	Paid/ Free
1.	Dr. Leena P. Pai	Soft Skills Training	2013	Students of the college	Free
2.	Sri. D. Ramachandran Nair	Soft Skills Training	2013	Students of the college	Free
3.	Smt. Saritha	Soft Skills Training	2016	Students of the college	Free

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

National		
Faculty	Membership	Year/Period
Sri. R. Indulal	Member, Faculty of Arts, University of Kerala	2013 onwards
Sri. R. Indulal	Chairman, Vidyabhyasa Samiti, Kerala Sasthra Sahitya Parishad, Alappuzha District	2011 Onwards
Dr. E. Krishnan Namboothiri	Board of Studies (UG, University of Kerala Member	2015
Dr. Bindu Nair	Indian Association for Women's Studies	Life Member
Dr. Bindu Nair	ASLE(Association for Students in Literature and Environment), India	Life Member

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies.

U.G. Programme-Final Year

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)	-	-	-	100	100	100
(b)	0	0	0	0	0	0

P.G. Programme-Final Year

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)	100	100	100	100	100	100
(b)	0	0	0	0	0	0

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/ Award	Awarded by
2014	Rithu Santhosh Devi k Nair Vishnu S Govind Phinney PatrickMartin	II BA Communicative English	Vyomitra Award	Old Age Home, Alleppey
2011	Naveena	Student	Prof. Lakshmy Narasimhan Endowment Award	Department
2011	Rachana	Student	Prof.A.P Kuriakose Endowment Award	Department
2012	Parvathy	Student	Prof. P.K. Padmanabhan Potty Endowment Award	Department
2012	Anjali Bhas	Student	Prof. Bhaskara Pillai endowment Award	Department
2012	Vineetha Mallan	Student	Prof. Lakshmy Narasimhan Endowment Award	Department
2012	Anjali Bhas	Student	Prof. A P Kuriakose	Department

			Endowment Award	
2013	Swathy Karthik	Student	Prof. Lakshmy Narasimhan Endowment Award	Department
2013	Anjana	Student	Prof.A P Kuriakose Endowment Award	Department
2013	Seetha S	Student	Prof.P K Padmanabhan Potty endowment Award	Department
2013	Anjana J	Student	Prof.Bhaskara Pillai endowment Award	Department
2014	Lakshmi G	Student	Prof. Lakshmy Narasimhan Endowment Award	Department
2014	Anupama J	Student	Prof.A P Kuriakose Endowment Award	Department
2014	Anjali Bhas	Student	Prof.P K Padmanabhan Potty endowment Award	Department
2014	Lakshmi G	Student	Prof.Bhaskara Pillai endowment Award	Department
2015	Devi S. Nair	Student	Prof. Lakshmy Narasimhan Endowment Award	Department
2015	Salaka P. R.	Student	Prof.P K Padmanabhan Potty endowment Award	Department
2015	Salaka P. R. & Devi S Nair	Student	Prof.Bhaskara Pillai Endowment Award	Department
2015	Devi Sanil Kumar	Student	Prof. A P Kuriakose Endowment Award	Department

24. List of eminent academicians and scientists/visitors to the department:

Name	Position	Occasion/ Purpose	Date of Visit
Sri. SSN Moorthy, IRS	Commissioner of Direct Taxes, Govt. of India	P K Padmanabhan Potty Memorial Lecture	2011
Dr. B. Hariharan	Associate Professor, Institute of English	Akshayakumar Memorial Lecture	2011
Smt. Jaisree Mishra	Famous Novelist	P K Padmanabhan Potty Memorial Lecture and Guruvandanam	2012
Dr. M V Narayanan	Professor and HOD of English, Calicut University	Akshayakumar Memorial Lecture	2012
Dr. C. S Jayaram	Artist and Professor, Amritha Institute of Management	Akshayakumar Memorial Lecture	2013
Prof. Tessy Xavier	Associate Professor, Dept. of English St. Josephs College, Alappuzha	English Association Inauguration	2013
Dr. P Madhavan	Professor, EFLU, Hyderabad	P.K. Padmanabhan Potty Memorial Lecture	2013
Dr. Siby James	Associate Professor, St. Thomas College, Pala	Akshayakumar Memorial Lecture	2014

Dr. V.C. Harris	Professor, School of Letters	P K Padmanabhan Potty Memorial Lecture	2014
Dr. Sandhya P Pai	Associate Professor, Dept. of English St. Josephs College, Alappuzha	English Association Inauguration	2014
Sri. Balu	Art Director	Film Work-shop	2015
Sri. Sunny Joseph	Cinematographer	Film Work-shop	2015
Sri. Lijin Jose	Film Director	Film Work-shop	2015
Sri. Kamal	Film Director	Film Work-shop	2015
Dr. Meena T Pillai	Associate Professor, Institute of English	Akshayakumar Memorial Lecture	2015
Mr. Benyamin	Award winning Author	Inauguration of Golden Jubilee Year Celebrations	2015
Prof. P. Harikrishna	Head, NSS College, Pandalam	English Association Inauguration	2016
K. Jayakumar IAS	Vice-Chancellor, Malayalam University, Kerala.	P K Padmanabhan Potty Memorial Lecture	2016

25. Seminars/ Conferences/ Workshops organized and the source of funding:

Programme	Topic/ Area	Dates	Funding Agency	Amount Received(Rs.)
Three Day Workshop	Film Studies	Oct 28,29 & 30,2015	UGC	50000
ASAP	Soft Skills Residential Training Programme	26 April-16 May 2013	Dept. of Higher Education, Govt of Kerala	5 lakhs
ASAP	Soft Skills Residential Training Programme	July1- 21, 2014 May 7- 27, 2015	Dept. of Higher Education, Govt of Kerala	5 lakhs
ASAP	Soft Skills Residential Training Programme	May 7- 27, 2015	Dept. of Higher Education, Govt of Kerala	4 lakhs
ASAP	Soft Skills Residential Training Programme	April 25 –May 14, 2016	Dept. of Higher Education, Govt of Kerala	4.12 lakhs

26. Student profile programme /course wise:

(a)U. G. Programme

B.A. English					
Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	247	47	11	30	87.17
2012-13	212	44	12	29	73.33
2013-14	275	51	6	19	87.18
2014-15	236	50	16	32	92.31
2015-16	302	49	--	--	
B.A. Communicative English					
2011-12	203	36	5	26	100

2012-13	189	35	9	27	73.53
2013-14	234	37	10	17	67.65
2014-15	247	37	17	21	87.5
2015-16	289	37	--	--	--

(b)P.G. Programme

Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	236	17	2	18	84.21
2012-13	215	19	3	17	100
2013-14	258	20	2	18	88.24
2014-15	298	19	3	16	80
2015-16	287	20	--	--	--

Rank Holders

2nd Rank- Anjali Bhas- M.A. English 2014, University of Kerala

3rd Rank- Salaka P.R.- M.A. English 2015, University of Kerala

3rd Rank- Devi S. Nair- B.A. Communicative English 2015, University of Kerala

5th Rank- Shanimol P.B.- B.A. Communicative English 2015, University of Kerala

6th Rank- Rithu S.A.- B.A. Communicative English 2015, University of Kerala

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	% of students from Abroad
2011-12	U. G.	100	--	--
	P.G	100	--	--
2012-13	U.G.	100	--	--
	PG	100	--	--
2013-14	U.G.	100	--	--
	P.G.	100	--	--
2014-15	U.G.	100	--	--
	P.G.	100	--	--
2015-16	U.G.	100	--	--
	P.G.	100	--	--

28. How many students have cleared national and state competitive examinations such as NET,SLET,GATE,Civil services, Defense services etc.?-

No. of students qualified NET in the year					
2011-12	2012-13	2013-14	2014-15	2015-16	
--	1	1	1	1	

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. to P.G.	24	322	25	24	--
PG to M.Phil.	2	2	4	5	--
P.G. to Ph.D.	1	1	2	1	
Ph.D. to Post-Doctoral	NA				
Employed:					
Campus Selection	--	3	4	5	--
Other than Campus recruitment	20	24	26	19	--

30. Details of Infrastructural facilities

Library	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs in the Dept.
Department Library with more than 8000 books and 3 journals publications	Broadband internet facility for staff and students	1	21
Language Lab			

31. Number of students receiving financial assistance from college, university, government or other agencies.

Name of Scholarship	2011-12	2012-13	2013-14	2014-15	2015-16	Total
C.H.Muhammed Koya Scholarship	-	-	-	4	-	4
EX Service	-	-	-	3	2	5
Fisheries	-	-	-	2	-	2
Higher Education Scholarship	-	-	-	1	-	1
Indira Gandhi Single Girl Child Scholarship	-	-	-	-	4	4
KSFCWC Scholarship	-	-	-	-	3	3
Financial Assistance from Government to various categories						
OBC	29	29	24	16	27	125
SC	23	18	16	22	40	119
OEC	23	26	18	20	23	110
KPCR	73	67	64	59	58	321
SEBC	4	5	7	11	8	35
FC	2	5	4	3	8	22
Total No.	154	150	133	141	173	751
Total Amount	Rs. 2061207/- (Twenty Lakhs Sixty One Thousand Two Hundred and Seven Only.)					

Note: KPCR- Kumara Pillai Commission Report

SEBC- Socially and Economically Backward Communities.

FC - Fees Concession.

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Programme	Name of External Expert	Dates
Three Day Workshop on Film Studies	Sri. Suuny Joseph, Art Director Sri. Balu, Cinematographer Sri. Kamal, Film director Sri. Lijin Jose, Film Director Vinod A.S., Toonz Animation P.F. Marthews, Film scenarist Dr. Jose Manuel, Professor School of Letters M.G. University Baiju Kurup, Film Editor, MV Prasad Academy Anand Babu , Sound Engineer, KSFDC.	Oct 28,29 & 30,2015
ASAP Soft Skills	Faculty of the Department:	26 April-16 May 2013

Residential Training Programme	R.Praseeda Varma Dr.Leena Pai D.Ramachandran Nair M. Saritha	July1- 21, 2014 May 7- 27, 2015 April 25 –May 14, 2016
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33. Teaching methods adopted to improve student learning

- Lectures with practical orientation
- Participatory Learning through drama productions and editing magazines to foster creativity.
- Visiting libraries, book exhibitions, literary and drama festivals
- ICT aided seminar presentations
- Regular assignments, test papers and seminars
- Using the facilities of the Language Lab to impart communication skills
- Entering and preparing students for inter-collegiate competitions
- Group projects and individual projects on new areas of research
- Providing NET, JRF coaching
- Tutorial system
- Mentoring

34. Participation in Institutional Social Responsibility (ISR) and extension activities

- PG students visited library of EFLU, Hyderabad in 2010.
- PG students visited International Book Fair in Kochi in 2014
- PG students participated in Hay Festival in Trivandrum, 2011
- UG students visited first Kochi Muziris Biennale in 2012
- UG students performed a street play in association with Excise Dept. Govt. of Kerala
- UG students of Drama Club enacted a street play on environmental issues in 2013.
- Students of III BA Communicative English acted and produced the Shakespearean play 'Macbeth' in the college on 8/8/14.
- Students of I BA Communicative English produced a short film 'Katha' entered in Malayala Manorama Short Film Festival.
- Students of UG Programme joined the organisation 'Winfred', an all India student organisation which supports organ donation in 2014.
- UG students were associated with an old age home and won the Vyomitra award.
- I BA Communicative English students published a magazine as a tribute to Dr. A P J Abdul Kalam in 2015.
- Students of II MA acted and produced the Shakespearean play 'Merchant of Venice' in the college on 29/3/16.
- Organized ASAP, soft skills training programme

35. SWOC analysis of the department and future plans

SWOC analysis:

Strengths
<ul style="list-style-type: none"> • Qualified and competent regular faculty. • Talented and devoted students. • Well-equipped library and language laboratory • Innovative teaching-learning methods adopted and practiced successfully • Have been able to foster communication skills and creative skills of students • Maintain good student- teacher relationship • Successfully organised ASAP and other soft skills training programmes

- Tutorial system running successfully

- Weaknesses**
- Wide gap in the capability and income level of the students.
 - Poor English Language skills in students from Malayalam medium schools hampers the effective conduct of the teaching learning process
 - Have not been able to tap potential for starting consultancy services in English communication skills among the public
 - We have not been able to start any add-on courses.

- Opportunity**
- To offer free consultancy and training facilities in communication skills and soft skills for career guidance both in the college and outside.
 - To become a full fledged research centre offering Ph.D. programmes in the latest areas of research.

- Challenges**
- Inadequate infrastructural facilities.
 - Lack of time for the completion of curricular and co-curricular activities.
 - Quality of student intake is poor, posing a challenge to imparting English communication skills.

- (b) Future plans**
- To be an approved Research Centre for Ph.D.
 - To start a Certificate Course on Script Writing in Movies
 - Efforts to retain good academic performance in both UG and PG students
 - To serve as a resource centre in communication skills, soft skills training.
 - To undertake research studies that benefits the immediate community.
 - To start add-on courses in script writing, English journalism etc

P.G. DEPARTMENT OF MALAYALAM AND SANSKRIT

1	Name of the Department	DEPARTMENT OF MALAYALAM AND SANSKRIT
2	Year of Establishment	1946
3	Names of Programmes/ Courses offered	B.A. Malayalam M.A. Malayalam
4	Names of Interdisciplinary Courses and the Departments/ units involved	Open Course in Malayalam Journalism is offered in Semester 5 for U.G. students of other departments.
5	Annual/semester/choice based credit system (programme wise)	B.A. – Choice Based Credit and Semester System: M.A. – Semester System.
6	Participation of the Department in the Courses offered by other Departments	Second Language Courses in Prose, Poetry, Fiction, Drama and Grammar (Sem 1& 2) are offered to U.G. Students of other departments.
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses /programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	1	1
Assistant Professors	6	6

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt./Ph.D./MPhil. Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr. S. Harikumar	M.A,M.Phil, B.Ed, Ph.D	Associate Professor	Malayalam Poetry	30	-
2	G. Valsala Devi	M.A,M.Phil B.Ed Ph.D	Assistant Professor	Malayalam Fiction	15	-
3	Dr. S. Ajayakumar	M.A, Ph.D	Assistant Professor	Culture; Novel	10	-
4	Dr. Sindhu Antherjanam	MA,B.Ed., Ph.D	Assistant Professor	Folk lore and Ritualistic Art	10	-
5	Dr. Devi K. Varma	MA, Ph.D, NET	Assistant Professor	Literature and Performing Arts	06	-
6	Dr. Sajith Kumar	MA, B.Ed. Ph.D,	Assistant Professor	Literature and Film	5	05
7	Dr.K.Narayanan (Sanskrit)	MA, M.Ed. Ph.D, NET	Assistant Professor	Sanskrit Jyothisham	10	-

11. **List of senior visiting faculty:** NIL
12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:**

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	17	21	23	25	25
P.G.	--	--	04	04	02

13. **Student-Teacher ratio (programme wise):**

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. (Core)	20:1	20:1	23:15	23:1	23:1
P.G.(Core)	--	--	2:1	3:1	3:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled.**

Sanctioned –0

Filled –0

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/ M.Phil/ P.G.**

Number of present faculty members with highest degree		
Ph. D.	M. Phil.	M.A.
7	--	--

*Qualification of each faculty is given in item No.10 above.

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.**

(a) **National:**

Sl. No	Name of the Project Holder	Title	Funding Agency	Amount (Rs.)	Level of Completion and Year
1.	Dr. Sindu Antherjanam	A Comparative Study of Literature and Paintings in Kerala	U.G.C	1,35,000	Completed 2016
2.	Dr. S. Ajayakumar	The Importance of Medias in Malayalam Language	U.G.C	60,000	Completed 2016
3.	Dr. Devi K.Varma	Cumulative Impact of the Ethnic Folk arts and Folklore of Kuttanad.	U.G.C	80,000	Completed 2016

(b) International: Nil

17. **Dept. projects funded by DST-FIST;UGC, DBT, ICSSR, KSCSTE etc. and total grants received :** NIL

18. **Research Centre/facility recognized by the University :** NIL

19. **Publications per faculty**

BOOKS / EDITED BOOKS/ CHAPTERS IN BOOK

Sl. No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1	Dr. Ajayakumar S	“ NET WORK” (a Play)	Introductory chapter in an edited book	Mukhachithram publications-2013

2	Dr. Ajayakumar S	Introduction to novel Lanka	Introductory essay to edition of Novel	B Books, Ampalappuzha, 2014
3	Dr. Ajayakumar S	NEYTHAL	Chapter in a book	Dept.of Malayalam, St.Joseph's College for women, Alappuzha 2014
5	Dr. Devi K. Varma	Kinchana Varthamanam	Literary study, Chapter in a book	ISBN:978-93-5174-529-7
6	Dr. Sajith Kumar	Padmarajan: Duranthakaamanak alile Gandharvan	Book	Mathrubhumi Books, 2012.
7	Dr. Sajith Kumar	Kuthiyottam	Book on folklore	Kerala Bhasha Institute, 2014.

JOURNAL ARTICLES

Sl No	Article Title	Journal Title/ year/volume No./issue number/year	Author & Co Authors
1	Kadhanapparampile belitharakal	Vijnanakairali, March 2011	Dr. Sajith Kumar S.
2	Kaalam Midikkunna Kavithamapinikal	Keli, May 2015	Dr. Sajith kumar S.
3	Gita & Management	Govt. Sanskrit college, Thiruvananthapuram 2012 .	Dr. Narayanan K.
4	A Comparative Study of Literature and Paintings in Kerala	IIAS Journal , 2012 Shimla	Dr. Sindu Antherjanam
5	Riddles Raised by Athi	IIAS Journal, 2014 Shimla	Dr. Sindu Antherjanam

Popular Publications (Magazines, News Papers etc.)

Sl. No.	Name of the faculty	Article title	Publication details	Year
1	Dr. S. Ajayakumar	Karumadikkuttan	ORA Journal	13, Nov -2013
2	Dr. S. Ajayakumar	Malayalaswathwam Neridunna VelluviLikal	ORA Journal	18, Oct, 2014
3	Dr. S. Ajayakumar	Mannum Manushyanum Mani Kottiya Kavitha	RED SALUTE (Desabhimani Special Edition)	13, Feb - 2015
4.	Dr. Sindu Antherjanam. D	Nagakkalagalile Nadakeeyatha	News Track Mgazine	2011 July
5.	Dr. Sindu Antherjanam. D	Kathakaliyum Chithrakalayum	UGC Seminar Souvenir, Christian College, Chengannur	2011, July

6	Dr. Devi K. Varma	Kootiyattathinte Thamizhormmakal	Bhavana, Souvenir, Kerala Samajam, Chennai.	August 2015
7	Dr. S. Sajith Kumar	Penmanasinte Pamparachuzhikal	Kalakaumudi Weekly	15 th May 2015
8	Dr. S.Sajith Kumar	Charitramaye Lola	Kalakaumudi Weekly	24 th Dec2015

20. **Areas of consultancy and income generated:**

Sl. No	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1	Translation work	Expert Opinion	Dr. Sindu Antherjanam	All Years During the period 2010-11 to 2015-2016	BSc. Nursing Students Govt. Medical College, Alapuzha	Free
2	Literary lecture	Resource Person	Dr. Ajaykumar	2012-onwards	State Library Council	Free
3	Childrens literature	Resource Person	Dr. Hari Kumar	2015 onwards	Chinmaya Vidyalaya Trust	free

21. **Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards**

Faculty	Membership	Year
National		
Dr .S. Hari Kumar	Syndicate Member, Cochin University	2011 to 2012
Dr. S. Hari Kumar	Director, Balasahitya Institute	2012 to 2014
Dr. S. Hari Kumar	Exc. Member, Kuttanad Taluk Library Council	2011 onwards
Dr. S. Ajayakumar	Co-ordinator of Kuttanadu Heritage Study Committee	2015 to 2016
Dr. S. Ajayakumar	Co-ordinator, Mathrubhumi Discussion Group	2015 onwards
Dr. S. Ajayakumar	Academic Council Member, Paravoor public Library	2011 onwards
Dr. S. SajithKumar	Member , Pathmarajan Smaraka Trust, Muthukulam	2011-2015

22. **Student Projects**

- Percentage of students who have done in-house projects including inter-departmental programme
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies

(i) **U.G. Programme**

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)	-	-	-	100	100	100
(b)	0	0	0	0	0	0

P.G. Programme

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)	-	-	-	--	--	--
(b)	0	0	0	0	0	0

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/ Award	Awarded by
2011	Dr.Sindu Antherjanam. D	Faculty	Associateship	Indian Institute of Advanced Studies, Inter-University UGC Centre, Shimla
2011	Arya .G	Student	Sri.Venkitaraman Potty and Kavary Amma Memorial Endowment prize to the topper in Sanskrit Subsidiary	Management
2011	Arya.G	Student	Prof. Ramavarma Thampuran Memorial Endowment	Department
2011	Arya.G	Student	Vadathodath K.N.Divakaran Pillai Memorial Endowment	Department
2012	Chithra. S & Antony.T.A	Student	Sri.Venkitaraman Potty and Kavary Amma Memorial Endowment prize to the topper in Sanskrit Subsidiary	Management
2012	Chithra. S	Student	Prof. Ramavarma Thampuran Memorial Endowment	Department
2012	Chithra. S	Student	Vadathodath K.N.Divakaran Pillai Memorial Endowment	Department
2012	Lineesha K. Mohandas & Rahul Vijayan	Student	Sri. Venkitaraman Potty and Kavary Amma Memorial Endowment prize to the topper in Sanskrit Subsidiary	Management
2012	Lineesha K Mohandas	Student	Prof. Ramavarma Thampuran Memorial Endowment	Department
2012	Lineesha K Mohandas	Student	Vadathodath K.N.Divakaran Pillai Memorial Endowment	Department
2013	Reshma Ramesan & Anjeesh	Student	Sri. Venkitaraman Potty and Kavary Amma Memorial Endowment prize to the topper in Sanskrit Subsidiary	Management

2013	Reshma Ramesan	Student	Prof. Ramavarma Thampuran Memorial Endowment	Department
2013	Reshma Ramesan	Student	Vadathodath K.N.Divakaran Pillai Memorial Endowment	Department
2014	Sreekutty Babukuttan & Rahul. R	Student	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment Prize to the topper in Sanskrit Subsidiary	Management
2014	Anju Thankachan	Student	Prof. Ramavarma Thampuran Memorial Endowment	Department
2014	Anju Thankachan	Student	Vadathodath K.N.Divakaran Pillai Memorial Endowment	Department
2014	Kannan Vijayan	Student	Gold Medal	Kerala University
2014	Kannan Vijayan	Student	Inter Collegiate and All India participation in power lifting	
2015	Bhoomika & Babu Antony	Student	Sri. Venkitaraman Potty and Kavery Amma Memorial Endowment prize to the topper in Sanskrit Subsidiary	Management
2015	Bhoomika	Student	Prof. Ramavarma Thampuran Memorial Endowment	Department
2015	Bhoomika	Student	Vadathodath K.N.Divakaran Pillai Memorial Endowment	Department
2015	Akhil P.H	Student	1st in Athletics 400mtr	Kerala University
2015	Akhil P.H	Student	Inter Collegiate and Inter University	Kerala University

24. **List of eminent academicians and scientists/ visitors to the department:**

Name	Position	Occasion/ Purpose	Date of Visit
Kureepuzha Sreekumar	Poet	Invited talk in 'Rachathavicharam'	6/1/2012
Dr. Harikumar Changampuzha	Associate professor, School of Letters, M.G University	Malayala Maholsavam	8/2/2011
Dr. P. Venugopal	Malayalam Lexicon Editor	Seminar- Kathakali Ragavum padavum	8/2/2011
Dr. Harikumar Changampuzha	Associate professor, School of Letters, M.G University	Inauguration of Malayalam Association	15/10/2011
Dr. M. Vijayappan	Professor, Head of the department, Calicut University	Inauguration of Alumni Association	4/11/2011

C. Radhakrishnan	Novelist	Inauguration of Malayalam Association	5/11/2011
Nedumudi Venu	Film Star	Inauguration of Alumni Association	6/11/2011
Prof.. Ampalapuzha Gopakumar	Poet, Critic	Invited Talk on Rachathavicharam	6/11/2011
Kureeppuzha Sreekumar	poet	Seminar - Eshtamudikayal	16/11/2011
Dr. Atheena Niranjana	Poet, Assistant Professor, N.S.S College, Cherthala	Seminar- Vylopallyum Vayalarum Malayala kavithayil	16/11/2011
Dr. Aju Narayanan	Assistant Professor, U. C College , Aluva	Talk – Dalith Vicharam	20/02/2011
Sri. Thomas Jacob	Editorial Director, Malayala Manorama	Seminar- Pathralokam	27/07/2012
Sri. Jose Panachippuram	Associate Editor Malayalamanorama	Seminar- Ezhuthinte Kala	27/07/2012
Sri. Jony Lukose	News Director, Malayala Manorama	Practical Session- Reporting	27/07/2012
Sri. Jayachandran Elangath	Chief Reporter Malayalamanorama	Editing -Practical Session	27/07/2012
Sri. Sreejith K Warrior	Sub. Editor Malayalamanorama	Editing Practical Session	27/07/2012
Sree. Perumpadavam Sreedharan	Novelist, President of Kerala Sahitya Accademy	Seminar- Ramavarmathampuram Smaraka Prabhashanam	6/11/2012
Sreejith Nair	Chief Reporter, Amrutha T.V	Talk- Pathralokam	2/2/2013
M. K. Sanu	Critic, Writer	The Memorial talk of Rama Raja Varma	9/3/2013
Prof. M.V. Krishnamoorthi	Associate Professor, Department of Malayalam, S.N. College, Cherthala	Inauguration of Malayala Samajam	9/3/2013
S. Narayanan Namboothiri	Chief, AIR, Thiruvananthapuram	Talk- Media Session	2/2/2013
Brahmachari Dhruva Chaithanya	Swami Chinmaya Mission	Rachatha Vicharam- Geetha Sandesam	23/6/2014
Sri. S. Muhammed Bhasheer	Arabic teacher	Rachatha vicharam. Quran	24/6/2014
Father G O Thakadiyil	C S I Church	Rachatha vicharam- Bible Dharshanam	25/6/2014
Prof. Chandradasan	Artist, Drama School , Thrissur	Ramayana chintha- Lankalekshmi	8/8/2014
Dr. Seema Jerome	Asst. Prof. Kerala University, Karyavattom	Ramayanachintha- Puthuramayana	10/8/2014
Dr. T A Sudhakara Kurup	Principal, N S S College	Seminar- Keralapiravi Dinakhosham	1/11/2014
Dr. Aju K Narayanan	Asst. Prof. U C College, Aluva	Seminar- Folklore	7/11/2014

V.H. Dirar	Regional Co-ordinator, Kuttanad Heritage Study	Seminar-Kerala Culture	19/12/2014
Padmabhooshan Kaavalam Narayana Panicker	Dramatist, Critic	Seminar- Thampuran Anusmaranam	5/02/2015
Dr. Rajeev Kumaramkandath	Fellow, IAS, Simla	Seminar- Cultural Studies	6/02/2015
Prof. Ramaraja Varma	Sanskrit Writer and Former Principal, S D College	Seminar- Bharathaparyadanam	19/6/2015
Prof.Viswanathan Namboothiri	Associate Professor, Sanskrit Department, Baseliyas college , Kottayam	Seminar-Kalidasanum Reghuvamsavum	23/6/2015
Dr. Mariyamma J Panjikaran	H.O.D , English Department, St. Gregorious College, Punnapra.	Seminar-Pennidam ”Ezhuthinte Thantedam”	24/6/2015
Dr. Shaji Jacob	Associate Professor, Sree Sankara Sanskrit University, Regional Centre, Thuravoor.	Seminar- Dasthoveski	25/6/2015
Prof. Reghunathan Pillai	Associate Professor, Govt.Womens College, Thiruvananthapuram	Seminar-“Rajankanam” Kuttikrishna Mararu	26/6/2015
V.J. James	Novelist,Engineer , Vikramsarabhayi Space Centre, Thiruvananthapuram	The Memorial Talk of APJ Abdul Kalam	1/8/2015
Dr. C.T. Francis	Associate Professor, Sanskrit Department, St. Thomas College Pala.	Seminar-Ramayana Vicharam	7/8/2015
Dr. K. M. Bharathan	Reader, Malayalam University, Thuravur	Seminar-Folklore	13/10/2015
Kalamandalam Ganesan	Performer, Kunjan Smarakam	Seminar-Thullal Aragam Ezhuthum	13/10/2015
Dr .K. S. Revikumar	Associate Professor, Dept. of Malayalam, N.S.S.College, Changnaserry	Seminar-Nattarivum Mozhiyum”Patayani”	14/10/2015
Asokan	Photographer, Environmentalist	Seminar-“Pachapp” Green Docu-Fest	13/10/2015

25. **Seminars/ Conferences/ Workshops organized and the source of funding:**

Sl. No	Programme	Topic/ Area	Dates	Funding Agency	Amount Received
1	Invited Talk	Kathakali-Rangavum Padavum	05/02/2011	Own Fund	15,000

2	Invited Talk	Novel – “Aadujeevitham”	04/3/2011	Own Fund	7,500
3	Invited Talk	Kathakali Seminar- Nalacharithathinte Bhaavasountharyam	06/03/2012	Management and Department	8,000
4	Kathakali Demonstration	Nalacharitham onnam divasam	06/03/2012	Own Fund	22,000
5	Invited Talk	Malabar Kalapam Cinimakalil	17/03/2012	Own Fund	8,500
6	Invited Talk	Naattarivum mozhiyum- Padayani	14/10/2015	Own Fund	6,800
7	Invited Talk	Ekantham- Marquese- Ekanthathayude nooru varshangal	22/06/2015	Own Fund	7,800
8	Invited Talk	Reporting-Editing Practical Session	27/07/2012	Own Fund	12,500
9	Invited Talk	Ezhuthinte Kala	27/07/2012	Own Fund	6,500
10	Invited Talk	Navamadhyama Silpasala	02/02/2013	Own Fund	7,200
11	Invited Talk Drama	Nadaka Yathra- “PENPIRAVI”	14/01/2011	Kerala Sastra Sahitya Parishath	5000
12	Invited Talk	Malayala Mahothsavam	04/02/2011	Own Fund	8,500
13	Invited Talk	“Ormacheppu”	06/02/2011	Own Fund	12,500
14	Documentary	Jeevanathalam	24/06/2011	Own fund	3,400
15	Talk by the Department Faculty	Ramayanathile Bhakthiyum sahithyavum	25/06/2011	Nil	2,500-
16	Quiz	Ramayana Prasnothary	29/08/2011	Nil	2,500
17	Short Film	Kurinji	30/09/2011	Nil	3,400
18	Short Film	Jalamarmaram	07/10/2011	Own Fund	2,300
19	Short Film	Jalayanam & Arajeevithangalkoru Swargam	12/10/2011	Own Fund	2,300
20	Invited Talk	Perunthachan: Thirakkathayum Cinimayum	15/10/2011	Own Fund	3,400
21	Invited Talk	Poetry- “Eshtamudikayal”	19/11/2011	Own Fund	7,000
22	Invited Talk	Vyloppillyum Vayalarum Malayala	19/11/2011	Own Fund	8,500

		Kavithayil			
23	Invited Talk	Khasakkinte Ithihasam	10/12/2011	Own Fund	2,500
24	Invited Talk	Kaviyum Kavithayum	06/01/2012	Own Fund	7,000
25	Invited Talk	Dalit Padanam	13/01/2011	Own Fund	8,500
26	Invited Talk	Sthreethwam Kathu Sookshikkunna Theerumanangal	02/03/2012	Own Fund	2,500
27	Invited Talk	Prof. Ramavarmathampura n Smaraka Prabhashanam	06/03/2012	Management and Department	35,000
28	Invited Talk	Inauguration of Malayala Samajam	09/03/2012	Own Fund	7,500
29	Alumni Kudumba Sangamam	Malayala kudumbasangamam	11/03/2012	Department and Alumni	85,000
30	Invited Talk	Aksharayanam- "Aksharadaram"	23/06/2012	Own Fund	5,600
31	Invited Talk	Aksharayanam- "Aksharadakshina"	23/06/2012	Own Fund	8,200
32	Invited Talk	Aksharayanam- "Aksharakoottam"	23/06/2012	Own Fund	5,600
33	Invited Talk	Aksharayanam- "Akshararchana"	23/06/2012	Own Fund	4,300
34	Invited Talk	Pathralokam	27/07/2012	Own Fund	5,600
35	Film Festival	Kaazhcha Pooram- Chalachithra Pradarsanam Charcha	16/08/2012	Own Fund	18,000
36	Invited Talk	Folklorum Kavithayum	19/11/2012	Own Fund	7,800
37	Invited Talk	Vinayachandran Anusmaranam	15/02/2013	Own Fund	8,300
38	Invited Talk	Inauguration of Malayala Samajam	8/3/2013	Own Fund	12,600
39	Invited Talk	Thampuran Smaraka Prabhashanam	9/03/2013	Management and Department	23,000
40	Invited Talk	Anumodana Sammelanam- Prof. M K Saanu	16/12/2013	Management	25,000
41	Invited Talk	Thampuran Smaraka Prabhashanam	16/12/2013	Management and Department	22,300
42	Invited Talk	Vayana Varaghosham- Geetha Sandesam	23/06/2014	Own Fund	8,800

43	Invited Talk	Vayana Varaghosham- Quaran Darsanam	24/06/2014	Own Fund	7,300
44	Invited Talk	Vayana Varaghosham- Bible Darsanam	24/06/2014	Own Fund	7,800
45	Invited Talk	Ramayana Chintha -Lanka Lekshmi	08/08/2014	Own Fund	8,200
46	Invited Talk	Ramayana Chintha -Chinthavishtayaya Seetha	09/08/2014	Nil	2,300
47	Invited Talk	Ramayana Chintha -Puthuramayam	09/08/2014	Own Fund	8,500
48	Invited Talk	Kerala Piravi Dinaghoshavum Seminarum	01/11/2014	Own Fund	6,500
49	Invited Talk	Nadodi Vinjaneeyam	07/11/2014	Own Fund	25,000
50	Invited Talk	Kerala Culture	19/12/2014	Own Fund	6,000
51	Invited Talk	Prof. Ramavarma Thampuran Anusmaranam	05/02/2015	Management and Department	19,800
52	Invited Talk	Sopana Sangeetham	05/02/2015	Own Fund	12,000
53	Invited Talk	Manassu- Samskaram-Paadam (Saamskarika padanathinte parasparayavum bhumi shasthravum)	06/02/2015	Own Fund	8,200
54	Invited Talk	Paandavapurathinte Kaanavazhikal	06/02/2015	Owned Talk	2,300
55	Invited Talk	Vyasa Bharathathinte Vyasathalangal- Bharatha pariyadanam	19/06/2015	Own Fund	7,400
56	Invited Talk	Reghuvamsha Sudhambudhi- Kaalidasanam Reghuvamshavum	23/06/2015	Own Fund	8,500
57	Invited Talk	Pennidam- Virginia Woolf- Ezhuthinte thantedam	24/06/2015	Own Fund	5,300
58	Invited Talk	Adhothalakkuri- Desthoveski	25/06/2015	Own Fund	8,500
59	Invited Talk	Raajankanam- Kuttikrishna Maarar- Nirupanathinte dhanthagopuram	26/06/2015	Own Fund	10,300

60	Invited Talk	“Agnisakshi...Orma” APJ Abdul Kalam	1/08/2015	Own Fund	9,500
61	Invited Talk	Ramayana vicharam-	09/08/2015	Own Fund	5,300
62	Invited Talk	Folkwalk	13/10/2015	UGC	15,000
63	Invited Talk	Thullal ezhuthum arangum	13/10/2015	UGC	10,000
64	Invited Talk	Pachappu- Green Docu- Fest	13/11/2015	Own Fund	8,500
65	Invited Talk	Malayala presnothari-2015	20/11/2015	UGC	6,000
66	Invited Talk	O N V Anusmaranam	15/02/2016	Own Fund	2,500

26. Student profile programme/ course wise:

(a)U. G. Programme

Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	169	49	4	34	60
2012-13	173	48	10	39	63.04
2013-14	146	44	12	37	69.57
2014-15	202	48	11	38	63.04
2015-16	197	50	--	--	--

(b)P.G. Programme

	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2013-14	93	14	--	--	--
2014-15	106	20	01	13	57.14
2015-16	128	20	--	--	--

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	% of students from Abroad
2011-12	U. G.	100	--	--
2012-13	U.G.	100	--	--
2013-14	U.G.	100	--	--
	P.G.	100	--	--
2014-15	U.G.	100	--	--
	P.G.	100	--	--
2015-16	U.G.	100	--	--
	P.G.	100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc.?

No. of students qualified NET in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
1	2	1	1	1

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15
U.G. to P.G.	45	48	55	51

PG to M.Phil.	NA	NA	NA	5
P.G. to Ph.D.	5	5	10	--
Ph.D. to Post-Doctoral	--	--	--	--
Employed:				
Campus Selection	Nil	3	5	5
Other than Campus recruitment	10	15	20	20

30. **Details of Infrastructural facilities**

Library	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs in the Dept.
<ul style="list-style-type: none"> Books Available in the General Library -3365 9 Journals in the Department 	Broadband internet facility for staff and students	1	2

31. **Number of students receiving financial assistance from college, university, government or other agencies**

Name of Scholarship	2011-12	2012-13	2013-14	2014-15	2015-16	Total
C.H. Muhammed Koya Scholarship	-	-	-	1	1	2
Government Financial Assistance for various Categories						
OBC	16	13	13	5	11	58
SC	21	18	19	23	29	110
OEC	25	33	28	30	25	141
KPCR	52	53	48	42	38	233
SEBC	-	-	6	13	15	34
FC	-	-	4	10	10	24
ST	1	1	1	1	-	4
Total No. of Students	115	118	119	125	129	606
Total Amount	Rs. 3036566/- (Thirty Lakhs Thirty Six Thousand Five Hundred and Sixty Six Only.)					

Note: KPCR- Kumara Pillai Commission Report

SEBC- Socially and Economically Backward Communities.

FC - Fees Concession.

32. **Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:**

Programme	Topic/ Area	Dates	Funding Agency	Amount Received
Invited Talk	Kathakali-Rangavum Padavum	05/02/2011	Own Fund	15,000
Invited Talk	Novel – “Aadujeevitham”	04/3/2011	Own Fund	7,500
Invited Talk	Kathakali Seminar- Nalacharithathinte Bhaavasountharyam	06/03/2012	Management and Department	8,000
Kathakali Demonstration	Nalacharitham onnam divasam	06/03/2012	Own Fund	22,000
Invited Talk	Malabar Kalapam Cinimakalil	17/03/2012	Own Fund	8,500
Invited Talk	Naattarivum mozhiyum-	14/10/2015	Own Fund	6,800

	Padayani			
Invited Talk	Ekantham- Marquese- Ekanthathayude nooru varshangal	22/06/2015	Own Fund	7,800
Invited Talk	Reporting-Editing Practical Session	27/07/2012	Own Fund	12,500
Invited Talk	Ezhuthinte Kala	27/07/2012	Own Fund	6,500
Invited Talk	Navamadhyama Silpasala	02/02/2013	Own Fund	7,200
Invited Talk Drama	Nadaka Yathra- “PENPIRAVI”	14/01/2011	Kerala Sastra Sahitya Parishath	5000

33. Teaching methods adopted to improve student learning

<ul style="list-style-type: none"> • Lectures and demonstrations • Conducting assignments, test papers and seminars • Participatory Learning through invited talks, discussions, lecture - demonstrations by external experts • Seminar presentations with ICT aids • Organising book exhibitions, dramas, cultural events and editing magazines • Visits to homes of poets, writers, folklore artists to promote creativity • Visits to libraries, literary and cultural festivals • Organising seminars, lecture series and workshops on topics like folklore studies, media and cultural studies and environmental issues to familiarize students with the latest trends in research • Effective implementation of tutorial system • Conducting language surveys in certain regions as part of language studies • As part of Ecological studies in the curriculum, field trips are arranged • Providing literary journals and periodicals to students free of cost • Generating content on wikipedia by both teachers and students
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34. Participation in Institutional Social Responsibility (ISR) and extension activities

<ul style="list-style-type: none"> • Visits were arranged to homes of poets, writers, folklore artists in connection with activities of PN Paniker Foundation • Organizing events like Ramayana week, and discussions on religious texts to promote religious harmony • Organising lecture demonstrations on cultural events like folklore, performing arts • Organising journalism workshops and sessions on media theory and practice • Organising field trips to Kuttanad, the rice bowl of Kerala, to promote awareness about environmental issues. • Organising Reading Week to promote reading habits and the literature and culture of the mother tongue. Reading week is celebrated with book exhibitions, quiz programmes, lecture series, cultural events, etc with the participation of the whole college and the general public • Conducting language surveys in specific regions as part of building awareness about languages and dialects

35. SWOC analysis of the department and future plans

(a) SWOC analysis

Strengths
<ul style="list-style-type: none"> • Dedicated and talented faculty with Ph.D degrees

- Good teacher-student relationship
- Conducting various extension activities like book exhibitions, literary and cultural events
- Celebrating Reading Week to promote reading habits and literary culture in the campus
- Organising seminars, workshops, lecture-demonstrations etc on issues of contemporary relevance in literature and culture
- Ability to tap the rich resource of cultural and literary experts available in Kerala
- The starting of P.G. course in 2013 opened the roads to formal research activities

Weaknesses

- Quality of student intake is unsatisfactory
- To start research centre in malayalam
- Students come from economically weaker sections

Opportunities

- To start add on courses in journalism and language skills.
- To promote the use of the mother tongue, and to uphold the cultural and literature of Kerala
- To introduce courses in Malayalam computing
- To create awareness about and propagate the indigenous classical and folk art and literature of Kerala

Challenges

- To overcome the forces of globalisation and urbanisation, and preserve and propagate the indigenous language, literature and culture of Kerala
- To complete the curriculum on time due to loss of working hours
- To create and maintain interest in the subject , given the poor quality of student intake

Future plans

- Upgrade the Department as a Research Department.
- To establish a Chair in the name of Thakazhi Sivasankara Pillai for the study of the environment and culture of Kuttanad
- Publish more books by Teachers and Students of the department.
- Conduct Seminars in Association with various organisations like Department of Culture, Kerala Sahitya Academy, Kerala Folklore Academy, Kerala Sangeetha Nataka Academy etc.
- Conduct a World Classic Film Fest in association with Kerala State Chalachithra Academy.
- Strengthening the Alumni Association and tap the potential for future development of the department.
- Form a Theatre for drama performances.
- Start a chair to Introduce Classical Art forms such as Kathakali, Koothu, Koodiyaattam etc.
- To introduce 'NALLA MALAYALAM', a program for correct usage in the Malayalam Language Programmes .
- To start 'SARGA SAMVADAM' – an interactive program with eminent writers and artists periodically.
- To collect and compile the folk songs of the agricultural region of Kuttanad, and the vanchipattu (the songs sung during the boat races of Kerala)
- To create awareness about and propagate the indigenous classical and folk art and literature of Kerala.

DEPARTMENT OF HINDI

1	Name of the Department	DEPARTMENT OF HINDI
2	Year of Establishment	1982
3	Names of Programmes/ Courses offered	B.A. Hindi
4	Names of Interdisciplinary Courses and the Departments/ units involved	An Open Course- Translation Theory and Practice is offered in the fifth Semester for U.G. students of other departments.
5	Annual/semester/choice based credit system (programme wise)	B.A. Choice Based Credit and Semester System (CBCSS)
6	Participation of the Department in the Courses offered by other Departments Second language Hindi is offered to all other departments.	
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses /programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	-	-
Associate Professors	1	1
Assistant Professors	4	4

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./MPhil.Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr. Shashikala Namboothiri	MA, Ph.D	Associate Professor	Fiction & Grammar	26	-
2	Dr. J Veena	MA, M Ed, MPhil, Ph.D	Assistant Professor	Poetry	10	-
3	Dr. Jyothishree Balakrishnan	MA, B Ed, MPhil, Ph.D	Assistant Professor	Fiction	10	-
4	Dr. Poornima	MA, B Ed, MPhil, Ph.D	Assistant Professor	Drama	7	-
5	Dr. Sanjayan	MA, Ph.D	Assistant Professor	Poetry	5	-

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	-	-	-	-	10.5

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	17:1	17:1	17:1	17:1	16:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Sanctioned–Nil

Filled–Nil

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/ M.Phil/ P.G.

Number of present faculty members with highest degree		
Ph.D.	M.Phil.	M.A.
5	-	-
*Qualification of each faculty is given in item No. 10 above.		

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

(a) National:				
Sl. No	Name of the Project Holder	Funding Agency	Amount	Level of Completion
1	Dr. Shashikala Namboothiry	U.G.C	1,80,000/-	Ongoing
2.	Dr. J. Veena	UGC	1,00,000/-	Completed, June 2011
3.	Dr. Jyothisree Balakrishnan	U .G.C	90,000	Completed, 15/06/2013
4.	Dr. Poornima	UGC	1,20,000	Completed, March 2013.
(b) International: Nil				

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc. and total grants received : NIL**18. Research Centre/facility recognized by the University : NIL****19. Publications per faculty****JOURNAL ARTICLES**

Sl No	Article Title	Journal Title Vol., No., year etc	Author & Co Authors
1	Makhanlal Chaturvedi Ki Rashtreeyatha ka Vidhrohi Chehara	Sangrathan by Hindi Vidyapeeth, Trivandrum, Kerala, August 2010 Volume 2 Page-46-48	Dr.Veena.J
2	Hindi Sahitya ki Swachanthavadi Kavya Dhara par Angresi ki Romanticism ka Prabhav	Sangrathan by Hindi Vidyapeeth, Trivandrum, Kerala, Sept. 2012 Volume 3 Page-16-18	Dr.Veena.J
3	Visthapan Ki Samasya- Adujeevitham ke vishesh sandarbh mem.	Jawahar Publications, Madhura, 2011, ISBN -978-81-811-290-3 , Page No. 43,	Dr. Veena J
4	Habib Tanvir Ki Natya Krithiyom Meim Bharatheeyata ki Khoj	Anusheelan, CUSAT, Jan.2012 Page – 223-225	Dr.Poornima
5	Nirmal Varma Ki Yudhavirodhi Chethana, Ve Din Aur Cheedom Par Chandni Ke Vishesh Sandarbh Meim	Sangrathan by Hindi Vidyapeeth, Trivandrum, Kerala, Nov.2011 Page – 23 - 25	Dr. Poornima

20. Areas of consultancy and income generated:

Sl. No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1.	Project	Advice	Dr. Shashikala Namnoothiri	2002-2010	University students	Free

21. Faculty members in (a) National committees (b) International Committees (c) Editorial Boards

National		
Faculty	Membership	Year
Dr. Shashikala Namnoothiri	Chairman of Editorial which designs " B.Com Career related syllabus "in Kerala University	2016
Dr. Veena J	Member, malpractice Prevention squad, University of Kerala	2016

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies

(i) U.G. Programme

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)	-	-	-	100	100	100

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/Award	Awarded by
2011	Rakhi Rajan	Student	Aneesh Endowment for students of final year who got highest mark in the subject	Alumni 1995 batch
2011	Rakhi Rajan	Student	Prof. Ravindranath Endowment for students of final year who got highest mark in subject	Department
2012	Neethu Krishnan	Student	Aneesh endowment for students of final year who got highest mark in subject	Alumni 1995 batch
2012	Neethu Krishnan	Student	Prof.Revindranath endowment for students of final year who got highest mark	Department
2012	Nandu KC	Student	Powerlifting- Kerala University Sports Competition 2nd Prize	University
2012	Nandu KC	Student	Body building - Kerala University Sports Competition 3rd Prize	University
2012	Nandu KC	Student	Powerlifting- National sports competition 3rd Prize	National
2013	Sabimol Villies	Student	Aneesh endowment for students of final year who got highest mark in subject	Alumni 1995 batch
2013	Sabimol Villies	Student	Prof.Revindranath endowment for students of final year who got highest mark	Department

2013	Nandu KC	Student	Powerlifting- Kerala university sports competition 1st Prize	University
2013	Nandu KC	Student	Body building- Kerala university sports competition 2nd Prize	University
2013	Nandu KC	Student	Powerlifting -Inter university competition 3rd Prize	Inter university
2014	Aneesha	Student	Aneesh endowment for students of final year who got highest mark in subject	Alumni 1995 batch
2014	Aneesha	Student	Prof.Ravindranath endowment for students of final year who got highest mark	Department
2014	Aneesha	Student	Dr.Shashikala Namboothiri endowment for students of final year who got highest mark in subject.	Department
2014	Nandu KC	Student	Powerlifting- Kerala university sports competition 1st Prize	University
2014	Nandu KC	Student	Body building-., 3rd Prize	University
2014	Nandu KC	Student	Powerlifting- National sports competition 3rd Prize	National
2015	Archana S Nair	Student	Aneesh endowment for students of final year who got 1st rank in University	Alumni 1995 batch
2015	Archana S Nair	Student	Prof.Revindranath endowment for students of final year who got 1st rank in University	Department
2015	Archana S Nair	Student	Dr.Shashikala Namboothiri endowment for students of final year who got 1st rank in University	Department
2015	Archana S Nair	Student	Endowment for students of final year who got 1st rank in University	Management
2015	Archana S Nair	Student	Endowment for students of final year who got 1st rank in University	Women's cell
2015	Arun	Student	Kabbadi- Senior State -1st	State
2015	Arun	Student	Kabbadi- Junior State-3rd	State
2015	Arun	Student	University south Zone -3rd	University
2015	Sebin Koshi	Student	400mtr Athletics- University -5th	University

24. List of eminent academicians and scientists/visitors to the department:

Name	Position	Occasion/Purpose	Date of Visit
Mr. Anil Kumar	HSA, Palakkad,Teacher	General talk on Hindi Literature	06/01/2014
Dr. Roy Joseph,	HOD Hindi, SB College, Changanassery	Invited talk in Official Language Hindi, Translation	02/03/2015
Dr.Vinayachandran	HOD Hindi, University College, Trivandrum	Validitory Function of Hindi Week	14/09/2015
Dr. N. Mohanan	Dean, Hindi Department, Cochin University	Seminar talk on Modernisation & Literature	14/01/2016
Dr. K. Vanaja	HOD, Hindi Department,	Seminar talk on	14/01/2016

	Cochin University	Contemporary & literature	
Mr. A. Somadathan	Ret.Asst.Director, Official language in Hindi, Income Tax	International Hindi Day	13/01/2016
Sree. Madhavan Pillai	Ret. Prof in Hindi, N S S College, Changanacherry	Lecture on Translation Theory & Practice	09/02/2016
Dr. Sheena Eapen	HOD & Associate Prof., St.Thomas College, Kozhancherry	Inauguration of Hindi Association and Talk on Women's literature	24/02/2016
Dr. S. K. Jayasree	Asst.Prof, Hindi Department, M.G.College, Trivandrum	Lecture on Indian Film History	11/03/2016

25. Seminars/Conferences/Workshops organized and the source of funding:

Programme	Topic/Area	Dates	Funding Agency	Amount Received
Invited Talk	General talk on Hindi Literature	06/01/2014	Own fund	3500
Invited talk	Official Language Hindi Translation	02/03/2015	„	2000
Inauguration of Hindi Week	Speech on Functional Hindi	07/09/2015	„	2000
Validatory Function of Hindi Week	Speech on official Hindi	14/09/2015	„	5000
Seminar talk on Modern & Contemporary Hindi Literature	Poetry	14/01/2016	UGC	25000
International Hindi Day	Speech delivered on the importance of Hindi as Universal language	13/01/2016	Own Fund	3000
Invited talk	Lecture on Translation Theory & Practice	09/02/2016	„	2000
Invited talk	Talk on Women's literature	24/02/2016	„	5000
Invited talk	Lecture on Indian Film History	11/03/2016	„	2000

26. Student profile programme/course wise:

(a)U. G. Programme

Year	Applications received	Selected	Enrolled		Pass%
			Male	Female	
2011-12	112	30	5	25	83
2012-13	134	37	10	26	73.68
2013-14	115	35	3	21	96.15
2014-15	156	35	7	24	81.08
2015-16	108	35	5	22	-

Rank Holder

❖ 1st Rank- Archana S. Nair -B.A. Hindi 2015, University of Kerala

27. Diversity of students

Year	Name of the Course	% of students from the Same state	% of students From other states	% of students From Abroad
2011-12	U.G.	99.10	0.90	--
2012-13	U.G.	98.06	1.94	--
2013-14	U.G.	97.96	2.04	--
2014-15	U.G.	98.93	1.07	--
2015-16	U.G.	100.00	0.00	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc.?-

No. of students qualified NET in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
1	1	1	-	2

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.to P.G.	22	21	19	24	
PG to M.Phil.	--	--	--	--	--
P.G. to Ph.D.	--	--	--	--	--
Ph.D. to Post-Doctoral	--	--	--	--	--
Campus Selection	2	--	--	--	--
Other than Campus recruitment	15	19	13	3	--

30. Details of Infrastructural facilities

Library	Internet facility for Staff And students	Class rooms with ICT facility	No. Of PCs In the Dept.
Department Library With minimum 2000 books and 5 Journals. Journals -	Broadband internet facility for staff, Water Purifier	-	02

31. Number of students receiving financial assistance from college, university, government or other agencies.

Category/Name	2011-12	2012-13	2013-14	2014-15	2015-16	Total
Post metric Scholarship	-	-	1	-	-	1
Financial assistance from Government to various categories:						
OBC	15	20	21	17	15	88
SC	3	5	4	8	12	32
OEC	10	7	7	13	13	50
KPCR	39	37	33	38	35	182
Total No. of Students	67	69	66	76	75	353
Total Amount	Rs. 1246699/- (Twelve Lakhs Forty Six Thousand Six Hundred Ninety Nine Only.)					

Note : KPCR : Kumara Pillai Commission Report

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts

Programme	Name of External Expert	Dates
General talk on Hindi	Mr.Anil Kumar, HSA, Palakkad	06/01/2014

Literature		
Invited talk in Official Language Hindi, Translation	Dr.Roy Joseph, HOD, SB College, Changanassery	02/03/2015
Validatory Function of Hindi Week	Dr.Vinayachandran, HOD, University College, Trivandrum	14/09/2015
Seminar talk on Modernisation & Literature	Dr. N.Mohanan, Dean, Hindi Department, Cochin University	14/01/2016
Seminar talk on Contemporary & literature	Dr.K.Vanaja, HOD, Hindi Department, Cochin University	14/01/2016
International Hindi Day	Mr.A.Somadathan, Asst.Director, Official language	13/01/2016
Lecture on Translation Theory & Practice	Sree. Madhavan Pillai, Translator,	09/02/2016
Inauguration of Hindi Association and Talk on Women's literature	Dr.Sheena Eapen, HOD & Associate Prof., St.Thomas College, Kozhancherry	24/02/2016
Lecture on Indian Film History	Dr.S.K.Jayasree, Asst.prof, Hindi Department, M.G.College, Trivandrum	11/03/2016

33. Teaching methods adopted to improve student learning

- Supplementing regular lectures with participatory learning methods like group discussions, role play, seminars, projects etc
- Students are encouraged to make seminar presentations in topics related to their curriculum and in new areas of research.
- Students and faculty regularly interact and discuss academic, research and other matters of general interest.

34. Participation in Institutional Social Responsibility (ISR) and extension activities

- Students were encouraged to share their old clothes, toys and books among the less privileged children.
- Students actively involve in the activities of clubs and forums like NSS, NCC, WSC.

35. SWOC analysis of the department and future plans

SWOC analysis

Strengths
<ul style="list-style-type: none"> • The department has dedicated permanent faculty. • We have achieved good results with university ranks in the UG course. • We have been able to motivate our students to perform their best in curricular and co-curricular activities. • The faculty are all PH.D holders and are actively involved in research activities. • We have developed a good library in the department, which is useful to students.
Weaknesses
<ul style="list-style-type: none"> • Since we are a UG department, we have no computer labs and audio visual rooms at our disposal. • The quality of our student intake is poor, and it is a challenge to maintain high academic standards.
Opportunities
<ul style="list-style-type: none"> • To conduct national seminars and workshops on the latest trends in literature. • To develop a language laboratory and audio-visual facilities to improve the spoken

and written use of Hindi language. <ul style="list-style-type: none">• We have the capacity to start a PG course.• To conduct certificate courses in functional and communicative Hindi
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Challenges
<ul style="list-style-type: none">• Maintaining good results in future also.• To provide training to students to take part in competitive examinations and career placements.

Future plans
<ul style="list-style-type: none">• To maintain efforts to retain the good academic performance in UG• To serve as a resource centre for the nearby colleges having only UG programmes.• To undertake research studies that benefit the immediate community.• To start PG course and offer Certificate Courses in vocational subjects.

**P.G. DEPARTMENT OF MATHEMATICS AND STATISTICS
AND RESEARCH CENTRE**

1	Name of the Department	P.G. DEPARTMENT OF MATHEMATICS AND STATISTICS AND RESEARCH CENTRE
2	Year of Establishment	1946 [U.G—1946, P.G—1964]
3	Names of Programmes/ Courses offered	B.Sc. Mathematics M.Sc. Mathematics
4	Names of Interdisciplinary Courses and the Departments/ units involved	An Open Course 'Operation Research' is offered in the fifth Semester for U.G. students of other departments.
5	Annual/semester/choice based credit system (programme wise)	B.Sc. Mathematics – Choice Based Credit and Semester System M.Sc. – Semester System
6	Participation of the Department in the Courses offered by other Departments Complimentary courses and open courses. <u>Name of Complimentary courses offered by other Departments</u> 1. Physics Complimentary courses for BSc(Maths) Sem 1,2,3,4 2 Statistics Complimentary courses for BSc (Maths) Sem 1,2,3,4 <u>Name of Complimentary courses offered to other Departments</u> Math Complimentary courses for B.Sc. (Physics) Sem 1,2,3,4 Math Complimentary courses for BSc(Chemistry) Sem 1,2,3,4	
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses /programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	3	3
Assistant Professors	6	6

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./MPhil.Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years
1	Lalitha R Pillai	MSc	Associate professor	Statistics	30	-
2	Dr.R. Sreekumar	MSc,MPhil, Ph.D, BEd, NET & J.R.F	Associate Professor and Head	Topology	23	-
3	Dr.S.Vijaykrishnan	M.Sc,MPhil Ph.D	Associate Professor	Convexity Theory	23	-
4	Dr.V.G. Rajalekshmi	M.Sc,MPhil, Ph.D, BEd.	Assistant Professor.	Operations research	19	-
5	Ashok Kumar.M.G	MSc, NET	Assistant	Functional	9	-

			Professor	analysis		
6	Amalraj. P	M.Sc, MPhil.BEd, NET, JRF	Assistant Professor.	Chaos theory	6	-
7	Rakesh.N. Nampoothiri	M.Sc, NET	Assistant Professor.	Geometry	6	-
8	Dr, Bibin.K.Jose	M.Sc,MPhil, Ph.D, NET & J.R.F	Assistant Professor.	Graph theory	6	-
9	Ananthalekshmi.V	M.Sc, MPhil,NET	Assistant Professor	Real analysis	2	-

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	23	9.2	10.6	9.8	11.1
P.G.	18.2	8.9	9.5	9	8.9

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G	20:1	20:1	20:1	20:1	20:1
P.G	5:1	5:1	5:1	5:1	5:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Sanctioned –Nil

Filled –Nil

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/ M.Phil/ P.G.

Number of present faculty members with highest degree		
Ph. D.	M. Phil.	M.Sc.
4	2	3
*Qualification of each faculty is given in item No.10 above.		

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

(a) National: Nil

(b) International: Nil

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc. and total grants received :

Sl. No.	Name of the faculty/ Coordinator	Project Title	Major/ Minor	Funding agency	Date of Sanctioning and Amount	Status
1.	Sri. Amal Raj	FIST-DST	Major	DST	July 2015	Allocated Rs.6,35,000/- for basic science equipments

18. Research Centre/facility recognized by the University:

Year of Establishment	Affiliation details	Number of PhD Students enrolled	Facilities Available for Research
2015	Affiliated to	Nil	Number of journals-11

(Affiliation Granted) University order awaiting	university of Kerala		News letter(Ramanujan Institute,Chennai) Number of Computers : 9 One Research room with internet facility Books provided by NBHM-278
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19. Publications per faculty

Sl.No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1	Lalitha .R. Pillai	Text book of Complementary Statistics for Semester I&II,III&IV for KU,MG,CU ,KNR Universities	Text for Bsc students	Sai Publishers, Alappuzha 2012 onwards
2	Lalitha .R. Pillai	A Practical guide to Complementary Statistics	Text for Bsc students	Sai Publishers, Alappuzha. 2012 onwards
3	Lalitha .R. Pillai	Authored A Handbook of Engineering Statistics	Text book	Sai Publishers, Alappuzha. 2012 onwards

JOURNAL ARTICLES

Sl No	Article Title	Journal Deatils/ year/ISSN	Author & Co Authors
1	Fuzzy P- Spaces and Fuzzy K-spaces	Bulletin of Kerala Mathematical Association 2011,Vol 8 , No 1 [133-138]. ISSN 0973-2721.	Dr. R. Sreekumar.
2	A model for finding frequent patterns from transactional database	Bulletin of Kerala mathematical association.	V.G.Rajalekshmi
3	Non-homogeneous Poisson Model for Mining Frequency of an Item from Data Stream	Technology operation Management Publishing ISSN 0974-8091	Dr. V. G. Rajaleksmi
4	Equality of Domination and Transversal Numbers in Hypergraphs	Discrete Applied, Mathematics 161,pp 1859-1867,161,2013	Dr. Bibin.K. Jose
5	Some New Classes of Open Distance Pattern Uniform graphs	International Journal of Combinatorics, Vol...2013, Article ID 863439, 7	Dr.Bibin.K Jose
6	Graph Products of Open Distance Pattern Uniform graphs	Gen. Math. Notes Vol..80,No. 2, pp. 67-76.	Dr. Bibin.K Jose

20. Areas of consultancy and income generated:

Sl. No	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1	M. Sc	Guiding	Dr. R.	2011-12	P.G.Students,	Free

	(Mathematics) project		Sreekumar	2012-13 2014-15 2015-16	Distance Education, University of Kerala	
2	Project Guidance	Guiding	Dr.Bibin.K.Jose	2014-2015	IESER Students Integrated B.Tech	Free

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

Faculty	P.G. Membership	Year
National		
Dr. R. Sreekumar	Board of Studies, University of Kerala	2011-16
Dr. R. Sreekumar	Chairman for Open Defence for Ph.D of M.G.University	2015-16
Dr. R. Sreekumar	Chairman for Board of Valuation of M Sc (Sem1) Mathematics Kerala University	2015-16
Dr. R. Sreekumar	Board of Studies , P.G , S.B College(Autonomous) Changanacherry	2015-16
Dr. R. Sreekumar	Board of Studies , P.G , FMN College (Autonomous) Kollam	2015-16
Dr. R. Sreekumar	Board of Studies , P.G , CMS College, (Autonomous) Kottayam	2015-16
Dr. R. Sreekumar	Secretary of Kerala mathematical Association, Alappuzha Chapter	2008-16
Dr. R. Sreekumar	Question paper setter for various autonomous colleges	2015-16
Dr.Vijayakrishnan.S	Board of Studies , U.G , University of Kerala	2014-16
Dr.Vijayakrishnan.S	Board of Studies of B.Sc Mathematics (pass), University of Kerala	2014-15
Dr.Vijayakrishnan.S	Chairman for Board for B.Sc Semester 5 Valuation .Kerala University	2015-16
Dr.Vijayakrishnan.S	Chairman for Board of Question paper setters M.G University for both P.G &U.G	2015-16
Dr.Bibin.K. Jose	Board of studies(PG), Mahatma Gandhi University	2015-16
Dr.Bibin.K. Jose	Chairman for Open Defence for Ph.D of M.G.University	2015-16
Amal Raj .P	Chairman, for Board of question paper setters, Calicut University	2015-16

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies

(i) U.G. Programme

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)	100	100	100	100	100	100
(b)	0	0	0	0	0	0

(ii) P.G. Programme

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)	100	100	100	100	100	100
(b)	0	0	0	0	0	0

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/ Award	Awarded by
2011-12	Dr.R.Sreekumar	Faculty	Research Guide ship	Kerala University
2013-14	Dr.S. Vijayakrishnan	Faculty	Research Guide ship	Kerala University
2014-15	Dr.V.G.Rajalekshmi	Faculty	Ph.D	M.G.University
2012-13	Dr.Bibin K . Jose	Faculty	Ph.D	M.G University
2014-15	Dr.Bibin K . Jose	Faculty	Research Guide ship	Kerala University
2012	Ammu S. Kumar	MSc Student	First Prize in University level project competitions for P.G., National Mathematical Year Celebration.	University of Kerala
2012	Devika I.	BSc Student	Second Prize in University level project competitions for U.G., National Mathematical Year Celebration.	University of Kerala
2012	Indrajith and Priyanka	BSc and MSc student	Third Prize in quiz competition during National Mathematical Year Celebration.	University of Kerala
2015	Ambili S.	MSc Topper	Prof: T.A. Sadagopan Endowment Award.	Department of Mathematics
2014	Rakhi R.	MSc Topper	Prof: T.A. Sadagopan Endowment Award.	Department of Mathematics
2013	Ammu S. Kumar	MSc Topper	Prof: T.A. Sadagopan Endowment Award.	Department of Mathematics
2012	Kasinath K.	MSc Topper	Prof: T.A. Sadagopan Endowment Award.	Department of Mathematics
2011	Anjana Krishnan	MSc Topper	Prof: T.A. Sadagopan Endowment Award.	Department of Mathematics
2015	Ardra C.S.	BSc Topper	Prof: M.C. Gopalakrishnan Endowment Award	Department of Mathematics
2014	Durga Vasudevan	BSc Topper	Prof: M.C. Gopalakrishnan Endowment Award	Department of Mathematics
2013	Meenu Mol T.	BSc Topper	Prof: M.C. Gopalakrishnan Endowment Award	Department of Mathematics

2012	Preethy R.	BSc Topper	Prof: M.C. Gopalakrishnan Endowment Award	Department of Mathematics
2011	Ammu S. Kumar	BSc Topper	Prof: M.C. Gopalakrishnan Endowment Award	Department of Mathematics
2012	Preethy R.	BSc Topper	Arjun Sekhar Memorial Cash Award	Department of Mathematics
2013	Meenu Mol T.	BSc Topper	Arjun Sekhar Memorial Cash Award	Department of Mathematics
2014	Durga Vasudevan	BSc Topper	Arjun Sekhar Memorial Cash Award	Department of Mathematics
2015	Ardra C.S.	BSc Topper	Arjun Sekhar Memorial Cash Award	Department of Mathematics
2012	Saroj Raj C.A. and Arun Kumar A.	NSS Volunteers	Arjun Sekhar Memorial Everolling Trophy	Department of Mathematics
2013	NSS Volunteers	Students	Arjun Sekhar Memorial Everolling Trophy	Department of Mathematics
2014	NSS Volunteers	Students	Arjun Sekhar Memorial Everolling Trophy	Department of Mathematics
2014	Rakhi R	M.Sc. Mathematics	2 nd Rank	University of Kerala
2014	Arathy R	M.Sc. Mathematics	3 rd Rank	University of Kerala
2013	Ammu S. Kumar	M.Sc. Mathematics	3 rd Rank	University of Kerala
2014	Bhavya V.	M.Sc. Mathematics	4 th Rank	University of Kerala

24. List of eminent academicians and scientists/ visitors to the department:

Name	Position	Occasion/ Purpose	Date of Visit
Prof.S. Kumaresan	Dean of Science, (Member of FIST,NBHM) Hyderabad University .	National Seminar Keynote address	March 18-20, 2015
Dr. <u>Subrahmanian Moosath K. S</u>	Professor, Indian Institute of Space Science and Technology, Trivandrum	Resource person National Seminar	March 18-20, 2015
Dr. G. Suresh Singh	Professor and Board of Studies Chairman (P.G), University of Kerala, Kariyavattom Thiruvananthapuram	Resource person for National Seminar	March 18-20, 2015
Dr. J. Robert Victor Edward	Associate Professor, Scott Christian College,	Resource person for National Seminar	March 18-20, 2015

	Nagercoil		
Dr. Vishnu Namboothiri K	Assistant Professor, BJM Government College, Chavara	Resource person for National Seminar	March 18-20, 2015
Dr.Paul Issac	Associate Professor, Bharath Matha College, Ernakulam & Kerala Mathematical Association, Secratary	Resource person for National Seminar	March 18-20, 2015
Dr.K.Sandeep	TIFR, Bangalore and Shanti Swarup Bhadnagar Award winner 2015	National Seminar, Keynote address	December 2-4, 2015
DR. A.R. Rajan	Former HOD, Department of Mathematics, University of Kerala.	Resource person for National Seminar	December 2-4, 2015
Dr. A Sunny Kuriakose	Dean ,FISAT, Angamaly Accademic Secretary , Kerala Mathematical Association	Resource person for National Seminar	December 2-4, 2015
Dr.K.P Naveenachandran	Associate Professor and Head (Maths), Govt.College, Chotoor.	Resource person for National Seminar	December 2-4 ,2015
Dr.Veeramony	Former Cotroller of Examination, University of Kerala former Professor and Head(Mathematics), University of Kerala.	Resource person, Regional Seminar and Mathematics Association Activity Inauguration	January 2012.
Mr.Ajith Kumar	Computer professional from UK	Talk on Computer applications	22-02-2013
Dr.A.R.Rajan and Dr. G. Suresh Singh	Department of Mathematics, University of Kerala	Examiners of the Project Presentation Competition of inter university- Mathematical year Celibrations, 2012	December 2012
Dr.Romeo	Head of the Department of Cochin University		
Dr Anilkumar (Calicut University)	Department of Mathematics, Calicut university.		
Prof.D.Gopalakrishna Pillai.	Former Principal and HOD, Mathematics, S.D.College, Alappuzha	Prof.T.A.Sathagopan and Prof.M.C Gopalakrishnan Endowment Talk	21-03-2016

25. Seminars/ Conferences/ Workshops organized and the source of funding:

Programme	Topic/ Area	Dates	Funding Agency	Amount Received (Rs.)
National seminar	Recent trends in Analysis, Topology	02-04 December	UGC	128000

	and Its applications	2015		
One day Seminar	Application of C++	22/02/ 2013	Sponsored by Alumni, Mathematics	3000
Workshop	Intiation to Mathematics-Two Weeks Workshop for Undergraduate students in National level	April 29 to May 11, 2013	NBHM- Bombay	300000
National seminar	Recent trends in Analysis, Topology and its applications	18-20 March , 2015	The Department of Science and Technology, Government of India) and Kerala State Council for Science Technology and Environment	1,15,000

26. Student profile programme/course wise:

(a)U. G. Programme

Year	Applications received	Selected	Enrolled for exam		Pass %
			Male	Female	
2011-12	265	56	28	30	86.67
2012-13	259	57	26	31	80.77
2013-14	221	58	24	32	80.00
2014-15	261	59	23	34	83.33
2015-16	278	59	--	--	--

(b)P.G. Programme

	Applications received	Selected	Enrolled for Exam		Pass %
			Male	Female	
2011-12	134	20	0	15	82.35
2012-13	146	20	0	20	95.79
2013-14	129	20	2	18	94.79
2014-15	158	20	2	18	93.21
2015-16	175	20	--	--	-

Rank Holders:

2nd Rank- -Rakhi R.-M.Sc. Mathematics 2014, _University of Kerala

3rd Rank- -Arathy R.-M.Sc. Mathematics 2014, University of Kerala

3rd Rank-Ammu S. Kumar-M.Sc. Mathematics2013, University of Kerala

4th Rank---Bhavya V.-M.Sc. Mathematics 2013, University of Kerala

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	% of students From Abroad
2011-12	U. G.	100	--	--
	PG.	100	--	--
2012-13	U.G.	100	--	--
	PG.	100	--	--
2013-14	U.G.	100	--	--

	P.G.	100	--	--
2014-15	U.G.	100	--	--
	P.G.	100	--	--
2015-16	U.G.	100	--	--
	P.G.	100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc.?

No. of students qualified NET in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
2	-	-	-	-
No. of students qualified GATE in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
-	-	-	1	-

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. to P.G.	18	16	16	17	--
PG to M.Phil.	2	3	2	1	--
P.G. to Ph.D.	1		1		--
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed:					
a) Campus Selection	4	5	3	3	--
b) Other than Campus recruitment	6	8	5	6	--

30. Details of Infrastructural facilities

Library	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs in the Dept.
Department Library Books: 275 Journals: 11 3012 books in College library	Broadband Internet facility for staff and students	Computer :1 Laptop: 1 Smart Board: 1 LCD Projector: 1	04

31. Number of students receiving financial assistance from college, university, government or other agencies.

Category/ Name	2011-12	2012-13	2013-14	2014-15	2015-16	Total
Post Metric Scholarship	-	-	-	1	-	1
Suvarna Jubilee Scholarship	-	-	-	2	-	2
Central Sector Scholarship	-	-	-	1	-	1
District Metric Scholarship	-	-	-	1	-	1
Higher Education Scholarship	-	-	-	4	-	4
Indira Gandhi Single Girl Child Scholarship	-	-	-	1	-	1
KSFCWC	-	-	-	1	-	1

KVPY	-	-	-	1	1	2
Munnokka Samudaya Scholarship	-	-	-	1	-	1
Government Financial Assistance:						
OBC	8	13	11	7	7	46
SC	10	10	12	15	21	68
OEC	19	17	21	21	16	94
KPCR	54	52	54	60	55	275
SEBC	15	16	13	16	14	74
FC	11	10	7	8	10	46
Total No. of Students	117	118	118	140	124	617
Total Amount	Rs. 2686124(Twenty Six Lakhs Eighty Six Thousand One Hundred and Twenty Four Only.)					

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts

Programme	Name of External Expert	Dates
Induction Programme for 1st year PG	Dr.Veeramony, Former HOD(Mathematics) , University of Kerala	October 2012
Computer application to Mathematics to Bsc students	Mr.Ajith Kumar(UK)	23-02-2013
Research Related Areas –for PG Students	Dr.K.Sandeep TIFR, Bangalore	December 3-2015
Prof.T.A.Sathagopan and Prof.M.C Gopalakrishnan Endowment Talk(For BSc and MSc (Mathematics Students)	Prof D. Gopalakrishnapillai ,Former Principal, S.D.College.	21-03-2016

33. Teaching methods adopted to improve student learning

<ul style="list-style-type: none"> • Extra time or free hours are used for problem solving sessions. • Peer teaching is encouraged, through the novel program “Each One Help One”, where a PG student helps a UG student in his/her academic program. • Diagnostic tests are conducted by the tutor in charge of I Bsc. • Software is used to generate graphs in many situations and internet facility is widely used.
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34. Participation in Institutional Social Responsibility (ISR) and extension activities

Sl.No	Activity	Details	Beneficiaries
1	MadhavaMathematical competition for under graduate students of various colleges in India	In collaboration with NBHM and TIFR	Under graduate students of different Universities
2	Campus Satisfaction Survey	First and Second year Bsc Students, lead by Prof Lalitha R. Pillai conducted the campus satisfaction survey.	College
3	Annam Sanatanam-donating free food to poor people	Most of the students (Mathematics) lead by Prof. Ananthlakshmy participate the programme	Poor inpatients in near by hospitals.

35. SWOC analysis of the department and future plans

SWOC Analysis

<p>Strengths</p> <ul style="list-style-type: none"> • The department has highly qualified and dedicated faculty, with 3 research guides and 4 Ph.D holders. The department has been approved as a research centre in 2015 (order is pending) • We have conducted three day National level seminars on recent topics for two consecutive years and provided opportunities for students to interact with eminent Mathematicians. • We have been able to consistently maintain a very good academic performance in University levels .Our students secured ranks in M.Sc during 2013 and 2014. • The demand for the course is evident in the online admission process of the university. • Students are trained and motivated to participate in NET/JRF examinations every year • We encourage peer teaching among students. “Each one Help One” is one such initiative whereby students help each other in their academic matters.
<p>Weaknesses</p> <ul style="list-style-type: none"> • Even though bright students bring good results to our department, they constitute only a minority of the students. A majority of students come from poor families and have poor mathematical skills. • Poor communication skills in English also hamper the effective teaching learning process.
<p>Opportunities</p> <ul style="list-style-type: none"> • Our department is an approved research centre (order pending) and we look forward to achieving success in all fields of research in the future years. • The department has conducted national seminars in recent topics in mathematics with the participation of eminent mathematicians. We hope to conduct more such seminars in the coming years. • The Department is a centre for Madhava Mathematical Competition for under graduate students sponsored by NBHM and TIFR.
<p>Challenges</p> <ul style="list-style-type: none"> • It remains a challenge to sustain the interest of students in the field of mathematics, given their poor cognitive and communication skills. • To develop the research activities of the research centre, in terms of more technical and infrastructure facilities • To maintain the good academic record of the students in both UG and PG levels.
<p>(b) Future Plans</p> <ul style="list-style-type: none"> • The Department is planning to start the research activities of the research centre, as soon as the order from the university is received. It is one of the few research centres in this part of the state that offers research opportunities in Mathematics. • We are planning to conduct various academic programmes to facilitate student interaction with academicians. • The NET coaching provided by the faculty is continuing and will be intensified.

POST GRADUATE DEPARTMENT OF PHYSICS

1	Name of the Department	DEPARTMENT OF PHYSICS
2	Year of Establishment	1950
3	Names of Programmes/ Courses offered	BSc, MSc
4	Names of Interdisciplinary Courses and the Departments/units involved	Open Course An Open Course entitled “Astronomy and Astro Physics” is offered in the fifth Semester for U.G. students of other departments.
5	Annual/semester/choice based credit system (programme wise)	BSc. – Choice Based Credit and Semester System. MSc – Semester System.
6	Participation of the Department in the Courses offered by other Departments	
	<u>Complementary Courses Offered to other departments</u>	
	<ul style="list-style-type: none"> • Mechanics & properties of matter, Heat and Thermodynamics and Optics, magnetism & electricity are offered to students in Mathematics Department. • Modern Physics & Electronics, Rotational dynamics & properties of matter, Thermal Physics Optics, Magnetism & Electricity Atomic physics and Quantum mechanics & Electronics etc.. are offered to students in Chemistry Department. 	
	<u>Complementary Courses Offered from other departments</u>	
	<ul style="list-style-type: none"> • Principles of Physical and Inorganic Chemistry(3rd and 4th Semester), Principles of Chemistry (1st Semester) etc.. are offered by Chemistry Department to the U.G. Students. • Mathematics Complimentary Courses(semesters I, II, III and IV)are offered by Mathematics Department to the U.G. Students. 	
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses / programmes discontinued (if any) with reasons.	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	3	2
Assistant Professors	7	7

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./MPhil. Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr.T.R.Sherley	MSc., M.Phil, PhD	Associate Professor & Head	Electronics, Material Science	27	-
2	Dr.K K.Narayanan	MSc, PhD	Associate Professor	Electronics, Microwave	22	-
3	Smt. E.G.Sudhamony	MSc, M.Phil	Assistant Professor	Electronics, Material Science	20	-
4	Smt. S.Lekshmi	MSc, UGC NET	Assistant Professor	Electronics, Quantum Computation	10	-
5	Dr. Sreejith. K. Pisharady	MSc, Ph.D	Assistant Professor	Electronics, Material Science	5	-
6	Sri S.B.Rakesh Chandran	M.Sc, NET	Assistant Professor	Electronics, Space Science	5	-
7	Dr. S.R.Rajesh	MSc, NET, PhD	Assistant Professor	Electronics, Astro Physics	5	-
8	Smt. V.Manju	MSc, NET	Assistant Professor	Material Science, Optoelectronics/ Organic Electronics	5	-
9	Dr. Sreekanth J Varma	MSc, PhD	Assistant Professor	Material Science, Organic Electronics/opto electronics	3	-

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	12	12	12	12	12
P.G.	08	08	08	08	08

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	12:1	12:1	12:1	13:1	13:1
P.G.	2:1	2:1	2:1	3:1	3:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Sanctioned –3

Filled – 3

- Sri. K. Anil Kumar – Lab Assistant
- Sri. P. Jayachandran- Lab Assistant
- Sri. A.K. Mohanan- Lab Assistant

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/ M.Phil/ P.G.

Number of present faculty members with highest degree		
Ph. D.	M. Phil.	M.Sc.
5	2	3
*Qualification of each faculty is given in item No.10 above.		

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

(a) National: Ongoing Projects

Sl. No	Name of the Project Holder	Project Title	Funding Agency	Amount (in lakhs)	Level of Completion
1	Rakesh Chandran S.B.	Modeling of charged dust environment around the Moon and a study on its impact on space missions.	UGC	2.80	Progress Report Submitted 2016
2	Dr. Sreekanth J. Varma	Development of highly crystalline conducting polymers and polymer nanocomposites for electromagnetic shielding applications	UGC	5	Progress Report Submitted 2016

Completed Projects

Sl. No	Name of the Project Holder	Project Title	Funding Agency	Amount (in lakhs)	Level of Completion
1	Dr. K. K. Narayanan	Microwave absorption studies in coir/coir-based products	UGC	1.55	Completed in 2013
2	Dr. Sreejith K. Pisharady	Microwave Absorption Properties of Polyaniline Coated coir fibres	UGC	1.25	Completed in 2014

17. Dept. projects funded by DST-FIST;UGC, DBT, ICSSR, KSCSTE etc. and total grants received

Sl. No.	Name of the faculty/ Coordinator	Project Title	Major/ Minor	Funding agency	Date of Sanctioning and Amount	Status
1.	Dr. K.K. Narayanan	SARD	Major	KSCSTE	August 2014	Under Implementation Rs. 28,09,000/-
2.	Dr. Sreejith K. Pisharady	FIST-DST	Major	DST	July 2015	Allocated Rs.7,82,000/- for basic science equipments

18. Research Centre/facility recognized by the University: NIL

19. Publications per faculty

BOOKS/ CHAPTERS IN BOOKS/ EDITED BOOKS

Sl.No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1	Dr. Sreekanth J Varma	The Versatile Roles of Graphene in Organic Photovoltaic Device Technology (in Applied Spectroscopy and the Science of Nano materials)	Chapter in Edited Book	Springer, Singapore, 2015, ISBN 978-981-287-241-8,

JOURNAL ARTICLES

Sl No	Article Title	Journal Title	Author & Co Authors	No. of Citations and Impact factor
1	Synthesis and optical studies of nano Ceriummolybdophosphate	AIP Conf. Proc.	Dr. T.R. Sherly	
2	Optical and dielectric studies of Zn doped cerium nano composite	Nano Science and Nano Technology 8(4), 138-147, 2014		
3	Optical and electrical studies of Cerium mixed oxides	AIP Conf. Proc.		
4	SEP events and wake region lunar dust charging with grain radii	Advances in space research, Elsevier, (Communicated, ASR-S-16-00258)	Rakesh Chandran S.B	2.25
5	Knee behavior in latitude profile of geomagnetically induced currents	Space weather, AGU (Communicated)		3.5
6	Transition of accretion flow from Keplerian phase to advective phase as dynamical system	Monthly notices of royal astronomical society, 452,3346-3356, 2015		5.105
7	Plasma electron temperature variability in lunar surface potentials and in electric field under average solar wind conditions.	Advances in space research, Elsevier, 51, 1622,2013		2.25
8	Transition of accretion flow from Keplerian phase to advective phase	Monthly notices of royal astronomical society, 452,3346-	Dr. Rajesh S R	5.105

	as a dynamical system	3356, 2015		
9	Time variability of viscosity parameter in differentially rotating disc	New Astronomy, 30, 38- 45,2014		1.844
10	SEP events and wake region lunar dust charging with grain radii	Advances in space research, Elsevier, (Communicated, ASR-S-16-00258)		2.25
11	Weakly nonlinear stability of hydrodynamic accretion disc	Monthly notices of royal astronomical society, 414, 691-701, 2011		5.105
12	Impressive electromagnetic shielding effects exhibited by highly ordered, micrometer thick polyaniline films	Applied Physics Letters 108, 154101, (2016)	Dr. Sreekanth J Varma	3.569
13	Exceptionally crystalline and conducting acid doped polyaniline films by level surface assisted solution casting approach	Applied Physics Letters 108, 161901, (2016)		3.569
14	Semiconducting Thienylene - Biphenylenevinylene Hybrid Polymers: Synthesis, Characterization and Application Prospects in Polymer LEDs	Dyes and Pigments 126, 303, (2016)		3.966
15	Polyaniline/graphene hybrid film as an effective broadband electromagnetic shield	RSC Advances 5, 5917, (2015)		3.84, Citations : 9
16	Enhanced photoluminescence in transparent thin films of polyaniline-zinc oxide nanocomposite prepared from oleic acid modified zinc oxide nanoparticles	Thin Solid Films 562, 84, (2014)		1.867 Citations : 4
17	Effect of solvents on the photoluminescence emission of a few novel, light emitting,	Optoelectronics Materials and Thin films, AIP Conf. Proc, 1576, 171-175,		NA

segmented block copolymers and hybrid polymers	(2014)		
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20. Areas of consultancy and income generated: Project consultancy for PG students of other colleges. Amount : Rs 88000/-

Sl. No	Details of Project/ activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid (Rs.)/ Free
1	Architect	Expert opinion	Prof. N Sreekumar	2011-16	CTN Trades and Tour Pvt. Ltd	Free
2	Advisory Board member	Expert opinion		2013-16 2013-16	Kerala Inland vessels rules,2013	
3	Project Guidance	Expert opinion	Smt.E.G.Sudhamoni and Dr.Sreejith K Pisharady	2012-13	PG Students from other institutions	Paid, 16000/-
4	Project Guidance	Expert opinion	Smt.E.G.Sudhamoni	2013-14	PG Students from other institutions	Paid, 16000/-
5	Reviewer	Expert opinion	Sri. Rakesh Chandran S B		Astrophysics and Space Science Journal, Elsevier	Free
6	Project Guidance	Expert opinion	Dr. Sreejith K Pisharady	2014-15	PG Students from other institutions	Paid, 32000/-
7	Project Guidance	Expert opinion	Dr. T R Sherley and Sri. Rakesh Chandran.S.B	2015-16	PG Students from other institutions	Paid, 24000/-

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

Faculty	Membership	Year
National		
Dr. Narayan K. K.	Member, Board of studies in Electronics, University of Kerala	2014-16
Rakesh Chandran S.B.	Member, Indian Science Congress Association	2010-2012
	Member, Indian Meteorological Society	2010 - 2016
Dr. Rajesh S. R.	Visiting Associate ship, IUCAA, Pune	2013
	Member, Board of Studies (Physics),	2014-15

	FMN College), Kollam, Kerala	
International		
Rakesh Chandran S.B.	The committee on space research (COSPAR), France	2013 to till date

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies

(i) U.G. Programme - Final Year

	2011-12	2012-13	2013-14	2014-15	2015-16
(a)	-	-	100	100	100
(b)	-	-	0	0	0

(ii) P.G. Programme - Final Year

	2011-12	2012-13	2013-14	2014-15	2015-16
(a)	100	100	100	100	100
(b)	0	0	0	0	0

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/ Award	Awarded by	
2016	Dr. Sreekanth J Varma	Faculty	Raman fellowship	UGC.	
			PhD Guide ship	University of Kerala	
2016	Sri. Vineeth Shaji	BSc Student	113 th rank in IIT- JAM exam	IIT, Govt. Of India	
	Sri. Vaisakh C. R	BSc Student	First Place in the NVD Quiz Competition	Election Commission of India In connection with National Voter's Day 2016	
2015	Sri. Vaisakh C. R	Student, BSc	Sri. Praveen P	Student Project	KSCSTE, Govt. of Kerala
			First Place in the NVD Quiz Competition	Election Commission of India In connection with National Voter's Day 2015	
			Participated in the 27 th Kerala Science Congress	27 th Kerala Science Congress	
			First Prize in Quiz Competition	Dept. Of Commerce	
			Participated in WISSENAIRE All Kerala Intercollegiate General Knowledge Quiz	Naipunya School of Management	
First Place in Quiz Competition –	Govt. Of Kerala, Forests & Wild Life Dept				

			District Level	
			Wn GQ Prize	All Kerala Management Fest Organized by IMT Punnapra
	Arathy N	Student, MSc	Runner-up for student project presentation	Advances in Geophysics, Space and Atmospheric Research Seminar, UGC, DST & KSCSTE,
2014	Vaisakh C. R	Student, BSc	Third place – District level NVD Quiz	Election Commission of India in connection with National Voter's Day 2014
			First Place in Quiz in connection with Mahatma Gandhi's 66 th Martyr's day	Ganghib Smaraka Grama Seva Kendram, S. L. Puam Alappuzha
			Participated in the Inter Collegiate IT – Fest – Daksh' 14	ZEITGEIST, IT Association of Kristu Jyothi College of Management & Technology
			Second Prize in the Encon Club Quiz in connection with Oil Gas Conservation Fortnight Celebrations	BPCL Kochi Refinery
			First Place in Quiz	Souvenir Committee in connection with the 62 nd Nehru Trophy Boat Race 2014
			Third Prize in the Prof. Susan John K Memorial All Kerala Intercollegiate Physics Quiz Competition	Dept. Of Physics, Baselius College, Kottayam
			First Prize in Dr. Subamanyan Memorial Quiz Competition	Dept. of Commerce S.D. Collage
			2013	Vaisakh C. R

			Competition	connection with World AIDS Day Observance – 2013 at Mar Ivanios College, Thiruvananthapuram
2013	Vaisakh C. R	Student	Participated in State Level quiz Competition	Kerala state AIDS control Society in connection with World AIDS Day Observance, 2013, Mar Ivanios College, Thiruvananthapuram

24. List of eminent academicians and scientists/visitors to the department:

Name	Position	Occasion/ Purpose	Date of Visit
Dr. R.Jayakrishnan	Assistant Professor of Physics, Christian College, Chengannur	International Year of Light and light based technologies, 2015	8/12/2015
Dr K.P. Satheesh	Retd. Principal, Bernnan College, Thalassery	100th year of Bohr Atom Model', 1 day Seminar	21/1/2015
Dr. A. Abraham	Assistant Professor of Physics, Christian College, Chengannur	Inauguration of theoretical lab	05/12/2013
Dr. K. P. Vijayakumar	Emeritus Professor, Dept of Physics, CUSAT	Inaugural talk on SARD Lab	18/03/2016

25. Seminars/ Conferences/ Workshops organized and the source of funding:

Programme	Topic/ Area	Dates	Funding Agency	Amount (Rs.)
Arrangements for viewing Transit of Venus	Arrangements for viewing Transit of Venus	6/6/2012	Department of Physics, S.D College	1000/-
Science Exhibition in connection with National Science Day	Science Exhibition in connection with National Science Day	28/02/2013	Department of Physics, SD College	1500/-
One day Seminar	Celebrating the '100th year of Bohr Atom Model',	21/1/2015	KSCSTE (in association with APT, Kerala)	6000/-
Seminar	Light and light based technologies	8/12/2015	KSCSTE	22000/-
National science day Celebration	Quiz Competition	26/2/2016	Department of Physics	1000/-

26. Student profile programme/course wise:**(a) U. G. Programme**

Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	332	38	17	16	57.14
2012-13	366	46	24	18	53.13
2013-14	472	46	24	17	59.46
2014-15	464	44	23	20	57.14
2015-16	495	45	18	27	--

(b) P.G. Programme

	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	98	12	1	11	60
2012-13	113	10	3	7	50
2013-14	104	13	2	11	57.14
2014-15	132	13	2	11	83.33
2015-16	158	13	3	10	-

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	% of students From Abroad
2011-12	U. G.	100	--	-
	P.G.	100	--	-
2012-13	U.G.	100	--	-
	P.G.	100	--	-
2013-14	U.G.	100	--	-
	P.G.	100	--	-
2014-15	U.G.	100	--	-
	P.G.	100	--	-
2015-16	U.G.	100	--	-
	P.G.	100	--	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc.?

No. of students qualified NET in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
1	1			

No. of students qualified JAM in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
-	-	-	-	1

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. to P.G.	4	8	10	7	-
PG to M.Phil.	1	0	0	0	-
P.G. to Ph.D.	0	0	0	0	

Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed :					
Campus Selection	--	5	3	2	-
Other than Campus recruitment	6	4	8	3	-

30. Details of Infrastructural facilities

Library and Lab	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs in the Dept.
<u>Department Library</u> Books :1570 Journals : 2	Broadband internet facility for staff and students	1	7
Research Facilities: The Department of Physics hosts excellent facilities for theoretical and experimental research for the graduate, post-graduate students and PhD scholars with an ambient atmosphere for inter-disciplinary research.			
<u>Facilities under SARD Scheme:</u> The research facilities were sanctioned by KSCSTE, Govt. of Kerala to enhance the research facilities in the Dept. of Physics. The facilities include most of the basic instruments for materials synthesis, processing and characterization. It is possible to carry out research work in the fields of Materials Science, Optoelectronics, Organic Electronics and Nanoscience.		Source meter (Keithley 2400) Digital Multimeter (Keithley 2001) Four-point and 2-point probe setups with temperature controllers (-50 to 150 °C) Muffle Furnace (1100 °C) Vacuum Oven (250 °C) Hot air Oven (150 °C) Bath sonicator Quartz Double distillation unit De-ionization Unit Ika Magnetic Stirrers with temp. controllers Rotary Vacuum pumps pH meter Table-top hydraulic pellet press Refrigerator 3 KVA UPS with 4 hrs backup	
<u>Facilities under FIST Scheme:</u> FIST (Fund for Improvement of S&T infrastructure in universities & higher educational institutions) is an initiative by the Department of Science and Technology, Govt. of India towards providing basic infrastructure, enabling facilities and environment for promoting R&D in new and emerging areas in Colleges and Universities all over the country. During 2014-15, the college qualified for funding from the DST under the FIST scheme and received Rs. 1 crore (maximum available funding for Level-0). In this funding, a sum of Rs.32 lakhs were		Oscilloscopes Storage Oscilloscope GM Counter ESR Spectrometer Microscope with Digital Camera He-Ne Laser Optical Fibre Characterization Setup Hall-effect setup Microprocessor training kits (8085, 8086) e/m apparatus Planck's constant apparatus Michealson Interferometer 4-probe Bandgap energy setup 5 Digit precision weigh balance LabVIEW Software	

allocated for teaching facilities/instruments, Rs.7 lakhs for networking and computational facilities, Rs.5 lakhs for e-learning room, Rs.5 lakhs for books, Rs.3 lakhs for maintenance and Rs.50 lakhs for research equipments. Licensed softwares like the Matlab, LabVIEW, Mathematica and Origin 2016 were purchased under this scheme and a high performance workstation with the capability of handling all the educational requirements of students /teachers / researchers in the college was installed.	Matlab Software Origin Pro Software Mathematica Software High performance workstation UV-Vis-NIR Spectrophotometer Flourescence Spectrophotometer Impedance Spectroscopy Workstation
<p>Facilities for practical experiments:</p> <ul style="list-style-type: none"> • Lab for B.Sc final year students • Lab for students of 2nd main and complimentary courses. • Lab for P.G. students • Theoretical Lab(Research). • Material Science Lab(Research) 	We have well equipped practical labs, each for complementary and core subjects with proper electrification and other amenities.

31. Number of students receiving financial assistance from college, university, government or other agencies.

Name/Category	2011-12	2012-13	2013-14	2014-15	2015-16	Total
Central Sector Scholarship	-	-	-	1	-	1
Indira Gandhi Single Girl Child Scholarship	-	-	-	1	1	2
Government Financial Assistance for various categories						
OBC	12	11	13	7	8	51
SC	12	13	12	21	17	75
OEC	9	8	6	10	13	46
KPCR	38	42	45	38	46	209
SEBC	7	5	7	7	4	30
FC	4	4	3	5	8	24
ST	--	-	-	-	1	1
Total No. of Students	82	83	86	90	98	439
Total Amount	5009256/- (Fifty Lakhs Nine Thousand Two Hundred and Fifty Six only.)					

Note: KPCR- Kumara Pillai Commission Report
SEBC- Socially and Economically Backward Communities.
FC - Fees Concession.

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Programme	Name of External Expert	Dates
International Year of Light and light based technologies,2015	Dr. R. Jayakrishnan, Assistant Professor of Physics, Christian College,Chengannur	8-12-2015
One day Seminar -100th year of Bohr Atom Model'	Dr K.P. Satheesh, Retd. Principal, Bernnan College, Thalassery	21/1/2015
Seminar on 'Physics of Economics'	V.R. Antony Joseph, Regional Manager, Geojith BNB Paribas, Alappuzha	22/03/2016

33. Teaching methods adopted to improve student learning

- Participatory Classes
- Uses circuit makers to discuss electrical experiments for post graduate students.
- Theoretical problems are discussed using the aid of simulations for PG students.
- All students are made to keep a record of the basics they have studied already which is relevant to their present studies.
- A classroom library is set for students in the PG as well as UG level. Moreover a general reading library set by the students of UG level is encouraged with a collection of books of their own so as to enable extra reading and kindle the habit of reading.
- Feedbacks are collected from the students regarding implementation of lesson plans and necessary modifications are made to implement the system effectively.
- As per the feedback more internal tests were conducted course wise and unit wise for PG on the basis of the lesson plan.
- Intensive coaching is arranged for UG and PG students in view of preparing them for the competitive exams like NET, JEST etc.
- Experiments are taught with the aid of Amrita virtual lab facility and each student is given an individual password for using this facility
- Active participation of students in their seminar presentations is entrusted. Presentations using power point is insisted. An evaluation, self assessment and criticism are documented properly after each presentation.

34. Participation in Institutional Social Responsibility (ISR) and extension activities

- Awareness program is carried out in respect of the social commitment of each student.
- A paper bag making workshop is designed for students of our department with a motto of "No plastic, Save Earth".
- Care is taken that students keep the neatness and discipline in lab and surroundings.
- With an aim of enhancing the communication skills and societal commitments, students are made to deliver talks on general issues other than the academics.

35. SWOC analysis of the department and future plans

(a) SWOC analysis

Strengths
<ul style="list-style-type: none"> • Equipped with highly qualified and dedicated faculty as a team.

- Talented and devoted students.
- The advancements in the research facilities, procured from SARD and FIST.
- Projects are carried out for UG and PG students not only from our department but from other institutions.
- Students are made to present their project work in seminars and conferences like Kerala Science congress.
- Utilized the SARD (KSCSTE) facilities.
- Utilised the DST-FIST fund of UGC for enhancing the theoretical and experimental research facilities.
- A diagnostic test is carried out at the entry level for UG programme.
- Intensive coaching is done for UG students for JAM.
- Remedial coaching is done on a regular basis for weak students.
- Regular tests and assessments are done for students who have failed and needs improvement in their past semesters.
- Students are given necessary counseling as and when needed.
- Necessary measures are taken to support students in need of financial support and learning aids.
- With an aim of enhancing the communication skills and societal commitments, students are made to deliver talks on general issues other than the academics.
- A complaint book is maintained for the students to represent their feed backs, queries and complaints to the HOD.
- Parent teachers meeting is organized at regular intervals thus maintaining a healthy relation with them
- Awareness program is carried out in respect of the social commitment of each student.
- General counseling classes are arranged for the students and special classes are taken for the needy
- A warning register is maintained at the department level to monitor and maintain the discipline of the students.
- Care is taken that students keep the neatness and discipline in lab and surroundings. Utilised the DST-FIST fund of UGC for enhancing the theoretical and experimental research facilities.
- A diagnostic test is carried out at the entry level for UG programme.
- Intensive coaching is done for UG students for JAM.
- Remedial coaching is done on a regular basis for weak students.
- Regular tests and assessments are done for students who have failed and needs improvement in their past semesters.
- Students are given necessary counseling as and when needed.
- Necessary measures are taken to support students in need of financial support and learning aids.
- With an aim of enhancing the communication skills and societal commitments, students are made to deliver talks on general issues other than the academics.
- A complaint book is maintained for the students to represent their feed backs, queries and complaints to the HOD.
- Parent teachers meeting is organized at regular intervals thus maintaining a healthy relation with them
- Awareness program is carried out in respect of the social commitment of each student.
- General counseling classes are arranged for the students and special classes are

taken for the needy

- A warning register is maintained at the department level to monitor and maintain the discipline of the students.
- Care is taken that students keep the neatness and discipline in lab and surroundings.

Weaknesses

- Wide gap in the capability and income level of the students.
- Our institute is located geographically away from the main stream educational hubs of the state.
- Being an affiliated college under the university, we have no flexibility in reorienting the curriculum.
- Poor communication skills in English.

Opportunities

- Well-equipped library
- Up gradation of the department as a research department with theoretical and experimental facilities.
- Students are selected from the department in ASAP training programmes and many of them are working as ASAP trainers.
- Through the placement cell of the college, many students are recruited in IT firms and banking sectors.
- Students are applying for internship programmes like summer school in institutes like IUCAA, IMSC, IISER etc.

Challenges

- Characterisation facilities are yet to be improved.
- Students are mostly from educationally and economically backward community especially fisherman and farmer families. Therefore the department finds difficulty in effectively communicating the advanced educational system with the students and their parents.
- Natural calamities like flood usually affect the low land areas surrounding the institution. As it badly affects the conveyance, students find it difficult to attend the classes.

(b) Future plans

- Efforts to improve the academic performance in both UG and PG students
- To serve as a resource centre for the nearby colleges having only UG programmes.
- To undertake research studies that benefits the immediate community.
- To convert the Department as a approved Research Centre.
- To establish Departmental collaborations with national and international institutions.
- To organise national and international seminars and conferences.

DEPARTMENT OF CHEMISTRY AND RESEARCH CENTRE

1	Name of the Department	DEPARTMENT OF CHEMISTRY AND RESEARCH CENTRE
2	Year of Establishment	1946
3	Names of Programmes/ Courses offered	BSc Chemistry, MSc Chemistry PhD Programme in Chemistry
4	Names of Interdisciplinary Courses and the Departments/units involved	An Open Course is offered in the fifth Semester for U.G. students of other departments. Name of Open Course – Environmental Chemistry
5	Annual/ semester/ choice based credit system (programme wise)	BSc. – CBCSS MSc. – Semester System
6	<p>Participation of the Department in the Courses offered by other Departments Complementary and open courses.</p> <p><u>Complementary Courses offered by the Department</u> Principles of Physical and Inorganic Chemistry(3rd and 4th Semester), Principles of Chemistry (1st and 2nd Semester) etc.. are offered by Chemistry Department to the U.G. Students of Physics Department.</p> <p>Organic and Bio Physical Chemistry (Semester 3rd and 4th)are offered to U.G. students of Zoology and Micro-Biology Departments.</p> <p>Principles of Organic and Bio-Organic Chemistry is offered to 3rd and 4th semester students of Botany and Micro-Biology Departments.</p> <p>Principles of Chemistry is offered to the 1st semester U.G. students of Physics Department.</p> <p><u>Complementary Courses Offered from other departments</u></p> <ul style="list-style-type: none"> • Modern Physics & Electronics, Rotational dynamics & properties of matter, Thermal Physics Optics, Magnetism & Electricity Atomic physics and Quantum mechanics & Electronics etc.. are offered by Physics Department to the U.G. students of our department. • Complementary courses for 1st, 2nd, 3rd and 4th semester U.G. students are offered by the Mathematics Department. 	
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses / programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	9	9
Assistant Professors	1	1

10. Faculty profile with name, qualification, designation, specialization,

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years
1	K.Jayasree	MSc,M.Phil,	Associate Professor	Organic Chemistry	31	--
2	Dr.S Suryakumari	M.Sc,M.Phil B.Ed Ph.D	Associate Professor	Pure chemistry	29	--
3	P Ajithakumari	MSc, M.Phil B.Ed	Associate Professor	Analytical chemistry	28	--
4	Dr.G Jayasree	MSc, M.Phil Ph.D	Associate Professor	Pure chemistry	24	--
5	Dr. B Ushakumari	MSc, Ph.D,	Associate Professor	Applied chemistry	23	--
6	Dr. C Krishnakumar	MSc, Ph.D	Associate Professor	Pure chemistry	20	--
7	Dr.K H Prema	M.Sc,M.Phil B.Ed Ph.D	Associate Professor	Pure chemistry	20	1
8	Dr.Girija P	M.Sc,M.Phil B.Ed ,Ph.D	Associate Professor	Applied chemistry	20	--
9	Dr. P.S Parameswaran	M.Sc, Ph.D	Associate Professor	Pure chemistry	20	--
10	V.P Karthikadevi	M.Sc,B.Ed	Assistant professor	Pure chemistry	6	--

11. List of senior visiting faculty: NIL**12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:**

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	0	0	0	7.5	19.98
P.G.	0	0	0	1	2.6

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	14:1	14:1	13:15	14:1	16:1
P.G.	3:1	3:1	3:1	3:1	3:1

14. Number of academic support staff (technical) and administrative staff

Sanctioned –4

Filled –4.

- Sri K. Prasanna Kumar- Lab Assistant
- Sri. N. Muraleedhara Mallan- Laboratory Assistant.
- Sri. A.G. Babu - Lab Assistant.
- Sri. J. Harihara Subrahmonian- Laboratory Assistant

15. Qualifications of teaching faculty with DSc/D .Litt / Ph. D/ M. Phil/ P.G.

Number of present faculty members with highest degree		
Ph. D.	M. Phil.	M.Sc.
7	2	1
*Qualification of each faculty is given in item No.10 above.		

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

(a) National:					
Sl. No	Name of the Project Holder	Title	Funding Agency	Amount	Level of Completion Year
1.	Dr. K H PREMA	Preparation of Magnetic Nanocomposites based on Ferrites,	U.G.C	1,60,000	Completed 2013
2.	Dr. P S PARAMESWARAN	Synthesis & Characterisation of nano gamma ferrite	U.G.C	135,000	Completed 10/02/2013
3	Dr. K H PREMA	Processability and Mechaniccal Studies on Natural Rubber based ferrite Composites	KSCSTEC	10,000	Completed 2014
4.	Dr. P S PARAMESWARAN	Influence of chelating agents on the properties of nanoferrites	KSCSTEC	10000	Completed 30/09/2014
5	Dr. P S PARAMESWARAN	Synthesis of nano ZnO by Green method	KSCSTE	4,500	Completed 15/07/2015

(b) International: Nil

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc. and total grants received

Sl. No.	Name of the faculty/Coordinator	Project Title	Major/Minor	Funding agency	Amount	Status Year
1	Dr. P S PARAMESWARAN	FIST-DST	Major	DSG	July 2015	Under implementation
2	Dr. K H PREMA	Preparation of Magnetic Nanocomposites based on Ferrites,	Minor	U.G.C	1,60,000	Completed On 2013
3	Dr. P S PARAMESWARAN	Synthesis & Characterisation of nano gamma ferrite	Minor	U.G.C	135,000	Completed on 10/02/2013
4	Dr. K H PREMA	Processability and Mechaniccal Studies on Natural Rubber	Minor	KSCSTEC	10,000	Completed on 2014

		based ferrite Composites				
5	Dr. P S PARAMESWARAN	Influence of chelating agents on the properties of nanoferrites	Minor	KSCSTEC	10000	Completed on 30/09/2014
6	Dr. P S PARAMESWARAN	Synthesis of nano ZnO by Green method	Minor	KSCSTE	4,500	Completed on 15/07/2015

18. Research Centre/ facility recognized by the University:

Year of Establishment	Affiliation details	Number of PhD Students enrolled	Facilities Available for Research
13.01.2013	Kerala university- No.Ac.E1.A/19624/2012 dated on 13/01/2014	01	Muffle furnace, Thermostat, Electronic balance, Polarimeter, Spectrophotometer, pH meter, Conductivity Cells, Magnetic Stirrer, Vacuum Pump, Refrigerator
Approved Research Guides : 2			
1. Dr. K.H. Prema -Associate Professor, S.D. College.			
2. Dr. P. Manoj -Assistant Professor, St. Michael's College, Cherthala.			

19. Publications per faculty

JOURNAL ARTICLES

Sl No	Article Title	Journal Title year/issue no./volume/year	Author & Co Authors	No. of Citations and Impact factor
1	Micro structure and Magnetic Properties of NiFe ₂ O ₄ and γ -Fe ₂ O ₃ Nano Particles Synthesized by Sol-Gel Method"	ReynoJournal of Interdisciplinary Studies 2012, 149,ISSN -2277-7652	Dr.Prema K H	--
2	Micro structure and Magnetic Properties of NiFe ₂ O ₄ and γ -Fe ₂ O ₃ Nano Particles Synthesized by Sol-Gel Method"	ReynoJournal of Interdisciplinary Studies 2012, 149,ISSN -2277-7652	Dr.P.S Parameswaran	--
3	Bioremediation of waste water containing hazardous cadmium ion with ion imprinted interpenetrating polymer networks,	Advances in Environmental Chemistry, ,10 pp, 2014	Dr Girija P.	Citation 1
4	Design of copper ion imprinted polymers based on crosslinked 4-vinylpyridine,	J. Chemi. Pharma. Research 2015,7,2,910-916 ISSN 0975-7384	Dr Girija P	--
5	Thermal behavior of Pb(II) ion	The Int J Sci and	Dr Girija P	--

	imprinted interpenetrating polymer networks	Technoledge 2015,3,5,ISSN 2321		
6	Selective removal of transition metal ions from waste water by ion imprinting technology	Int. J. Chem Tech. Res. 2014, 6,2438-24455	Dr. Girija P	0.3
7	Sorption of trace amounts of Pb(II) ions on an ion imprinted interpenetrating polymer networks based on alginic acid and crosslinked polyacrylamide	Sep. Sci. Tech. 2014, ISSN 0149-6395,49,1053-1061	Dr Girija P	1.1
8	Biosorption of toxic zinc(II) ion from water using ion imprinted interpenetrating polymer networks	J. Chem. Chem. Eng., 2013, 7, 508-517	Dr. Girija P	--
9	Processability, Mechanical and Magnetic Studies on Natural Rubber-Ferrite Composites	International Journal of Chemical Studies 3, 15-22, 2015. ISSN – 2321-4902	Dr Prema KH	0.234
10	Processability, Mechanical and Magnetic Studies on Natural Rubber-Ferrite Composites	International Journal of Chemical Studies 3, 15-22, 2015. ISSN – 2321-4902	Dr P.S Parameswaran	--
11	Effect of Phenolic Moieties on the Properties of γ -Fe ₂ O ₃ Nanoparticles	Journal of the Academy of Chemistry Teachers 1, 7-14, 2015. ISSN 2395-6801	Dr Prema KH	--
12	Effect of Phenolic Moieties on the Properties of γ -Fe ₂ O ₃ Nanoparticles	Journal of the Academy of Chemistry Teachers 1, 7-14, 2015. ISSN 2395-6801	Dr P.S Parameswaran	--

20. Areas of consultancy and income generated:

Sl. No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1	Analysis of water samples from the nearby houses and consultancies on the basis of their request	Free Service	Dr.B.Ushakumari	2012-2014	Students from nearby areas and general public	Free
2	Awareness classes on food adulteration, for the public.	Free Service	Dr. S. Suryakumari	2013-2016	General public	Free

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

Faculty	Membership Details	Year
National		
Dr. Prema K.H	Member of Academy of Chemistry Teachers	2011-2016

	Member in PG syllabus revision	2014-16
Dr. Girija. P	Member of Academy of Chemistry Teachers, Kerala University, Tvm	2011-2016
Dr.P.S.Parameswaran	Member of Academy of Chemistry Teachers, Kerala university, Tvm, U.G. Board of studies (Chemistry) –Pass Board	2014 onwards
Dr.S Suryakumari	Member of Academy of Chemistry Teachers, Kerala university, Tvm	2011-2016
Dr.G Jayasree	Member of Academy of Chemistry Teachers, Kerala university, Tvm	2011-2016
Dr.B Ushakumari	Member of Academy of Chemistry Teachers, Kerala university, Tvm	2011-2016
P. Ajithakumari	Member of Academy of Chemistry Teachers, Kerala university, Tvm	2011-2016

22. Student Projects

(a) Percentage of students who have done in-house projects including inter-departmental programme*

(b) Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies**

(i) U.G. Programme

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	-	-	-	100	100	100
(b)**	0	0	0	0	0	0

(ii) P.G. Programme

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	0	0	23	61	41	15
(b)**	100	100	77	39	59	85

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/ Award	Awarded by
2011	Deepa	Student	Mankombil Raghavan Pillai & Lakshmi Raghavan Pillai Memorial endowment prize – Topper in MSc Chemistry	Management
2012	John	Student	Mankombil Raghavan Pillai & Lakshmi Raghavan Pillai Memorial endowment prize – Topper in MSc Chemistry	Management
2012	Gokul Nath	Student	Prof. K.Balakrishna Pillai Memorial Award – Highest Mark in BSc Chemistry	Department
2012	Thara	Student	Ramesh Pai Memorial endowment – Highest Score in MSc Chemistry	Department
2013	Soumya G Shenoy	Student	Mankombil Raghavan Pillai & Lakshmi Raghavan Pillai Memorial endowment prize – Topper in MSc Chemistry	Management
2013	Deepa	Student	Ramesh Pai Memorial endowment – Highest Score in MSc Chemistry	Department

2013	Megha	Student	Prof. K.Balakrishna Pillai Memorial Award – Highest Mark in BSc Chemistry	Department
2013	Soumya G Shenoy	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2013	Soumya G Shenoy	Student	Prof. R.S. Kammath Memorial endowment	Department
2014	Anjali V Nair	Student	Prof. K.Balakrishna Pillai Memorial Award – Highest Mark in BSc Chemistry	Department
2014	John	Student	Ramesh Pai Memorial endowment – Highest Score in MSc Chemistry	Department
2015	Anjali S	Student	Prof. K.Balakrishna Pillai Memorial Award – Highest Mark in BSc Chemistry	Department
2015	Soumya G Shenoy	Student	Ramesh Pai Memorial endowment – Highest Score in MSc Chemistry	Department
2015	Kiran Baby R	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2015	Arjun V Prakash	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2015	Aswathy	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2015	Thanoof	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2015	Sukanya Shaji	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2015	Savitha G	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2015	Anjaly S	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2015	Aparna K Shaji	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2015	Revathy R V	Student	Cash prize for student scoring more than 90% in Organic Chemistry Paper – I.	Department
2015	Mamta Binoy	Student	Kerala State Higher Education Scholarship	Kerala State Higher Education Council

24. List of eminent academicians and scientists/visitors to the department

Name	Position	Occasion/ Purpose	Date of Visit
Dr.P. Manoj	Associate professor, St Michael's College, Cherthala	Chemistry Association inauguration	08/02/2012
Dr. Anithadas	Scientist , Central Coir research institute, Alappuzha	Inauguration of Chemistry Association	15/10/2013

Dr. Sadasivan	Associate professor, University college, TVM	Chemistry association inauguration	08/03/2014
Dr. S. Murukan	Professor, Dept of Chemistry, ST Hindu, College , Nagarcoil	Workshop on Microscale experiments in chemistry	18/3/2014 19-3-2014
Dr. Edamana Prasad	Associate Professor, Dept of Chemistry, IIT Chennai	Invited talk in nano chemistry ,UGC sponsored national seminar	16/10/2015
Dr. KG K Warriar	Chief scientist& CSIR emeritus scientist (Retd)ceramics consultant	Invited talk in nano chemistry ,UGC sponsored national seminar	16/10/2015
Dr. Krishnan	Scientist ,Catalysis division, VSSC, Tvm.	Invited talk in catalysis	20-10-2015
Dr. Edamana Prasad	Associate Professor, Dept of Chemistry, IIT Chennai	Training for teachers based on teaching and learning process	15/10/2015
Dr. A Sreekanth	Associate professor, Dept of Chemistry, NIT, Trichy	Invited talk in chemistry ,UGC sponsored national seminar	16/10/2015
Dr. Sr. Jannet	Principal, St Joseph's College,Alappuzha	Inauguration of chemistry Association	06/3/2016

25. Seminars/ Conferences/Workshops organized and the source of funding

Programme	Topic/ Area	Dates	Funding Agency	Amount (Rs.)
Workshop	Microscale analysis	18-3-2014 19-3-2014	Own Fund	1500/-
Invited Talk	Nanochemistry	15-10-2015	UGC	1,00,000/-
Invited Talk	Concepts in 2 D NMR-applications	15-10-2015	UGC	
Invited Talk	Self assembly of dendrite nanostructures to gels	15-10-2015	UGC	
Invited Talk	Coir industry	06/03/2012	Own Fund	2500/-
Workshop for Higher Secondary teachers and students	Analytical Techniques in Chemistry	06/01/2016	Own Fund	2500/-

26. Student profile programme/ course wise:

(a) U. G. Programme

Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	345	43	13	30	82
2012-13	391	44	17	27	85

2013-14	406	44	11	23	84
2014-15	456	39	13	26	94
2015-16	478	43	-	-	-

(b) P.G. Programme

	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	89	26	4	22	66
2012-13	104	26	6	20	67
2013-14	91	26	6	20	64
2014-15	84	25	3	22	77
2015-16	121	26	-	-	-

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	% of students from Abroad
2011-12	U. G.	100	--	--
	P.G.	100	--	--
2012-13	U.G.	100	--	--
	P.G.	100	--	--
2013-14	U.G.	100	--	--
	P.G.	100	--	--
2014-15	U.G.	100	--	--
	P.G.	100	--	--
2015-16	U.G.	100	--	--
	P.G.	100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil services, Defence services etc.?

No. of students qualified NET in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
-	1	1	1	2
No. of students qualified GATE in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
-	-	-	1	1

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. to P.G.	8	10	8	13	15
PG to M.Phil.					--
P.G. to Ph.D.	5	7	6	--	--
Ph.D. to Post-Doctoral	--	--	--	--	--
Employed	Nil	3		1	
Campus Selection	3	4	5	8	1
Other than Campus recruitment	10	7	6	5	3

30. Details of Infrastructural facilities

Library	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs
Department Library	Broadband internet facility for staff and students	01	07

with 100 books and 9 Journals				
Lab facilities (differentiate MSC BSC and research labs, list out all equipments)	BSc lab 1.pHmeter 2.ConductivityCells 3.Vaccum Pump 4.Refrigerator 5.Electronic balance 6.Potentiometer 7.Conductivity Cells 8.Water bath 9.Thermostat	MSc lab 1.Thermostat 2.Electronic balance 3.Magnetic Stirrer 4.Vaccum Pump 5.Colorimeter 6.Microwave oven 7.Abbe Refractometer	RESEARCH LAB 1.Muffle furnace 2.Electronic balance 3.Polarimeter 4.Spectrophotometer 5.pH meter 6.Conductivity Cells 7.Magnetic Stirrer 8.Vaccum Pump 9.Microwave oven 10.Colorimeter 11.Mechanical Shaker	

31. Number of students receiving financial assistance from college, university, government or other agencies.

Name/Category	2011-12	2012-13	2013-14	2014-15	2015-16	Total
Post Metric Scholarship	-	-	-	1	-	1
State Matric Scholarship	-	1	1	1	-	3
Higher Education Scholarship	-	-	-	1	-	1
OBC	23	16	15	12	18	84
SC	9	9	9	20	24	71
OEC	13	18	16	21	21	89
KPCR	48	50	47	39	29	213
SEBC	6	6	11	10	11	44
FC	5	3	3	5	6	22
ST	-	-	-	-	-	-
Total No. of Students	104	103	102	110	109	528
Total Amount	Rs. 25,34,161/- (Twenty Five Lakhs Thirty Four Thousand One Hundred and Sixty One Only).					

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts

Programme	Name of External Expert	Dates
Induction Programme for 1st year PG	Dr Sadasivan Associate professor, University college, TVM	September 14 th 2012
Induction Programme for 1st year	Dr Manoj P, Associate Professor,	08/02/2012

degree students	St Michael's college, Cherthala	
Induction Programme for 1st year PG	Dr Sr Jannet, Principal St Joseph's college Alappuzha	6/1/ 2016

33. Teaching methods adopted to improve student learning

- In addition to the lecture –demonstration method, students are given projects to supplement their learning.
- Browsing internet for collecting learning materials and reading academic journals is encouraged
- Problem solving methods are encouraged for developing self confidence and self discipline
- Lectures are conducted using smart board
- Lectures are supplemented by using models for solid chemistry and virtual lab
- Group discussion method is preferred

34. Participation in Institutional Social Responsibility (ISR) and extension activities

- Students actively participate in Annam Sanatanam, a programme for donating food by students and teachers to the poor and needy in medical college hospital.
- One day work shop on experiments in chemistry was conducted for plus two students from schools nearby .The workshop mainly aimed at giving a direct insight to the various qualitative and quantitative techniques to Higher Secondary students and Teachers.

35. SWOC analysis of the department and future plans

(a) SWOC analysis

Strengths
<ul style="list-style-type: none"> • Academic honesty and discipline is maintained by both staff and students • Good academic output is ensured for the students by strengthening the teaching-learning process and encouraging research activities. • Highly qualified and dedicated teachers with research degrees • Good rapport between staff and students are maintained
Weaknesses
<ul style="list-style-type: none"> • Lack of research facilities is a set back to research activities of both students and teachers • Lack of timely and adequate parental support affects the academic performance of students, as students come from financially weaker sections • A good number of the students are first generation learners from rural areas and with poor communication skills • Extension activities cannot be carried out extensively due to time constraints and the constraints of the CBCSS system • Consultancy services on income generative basis have not been adequately developed.
Opportunities
<ul style="list-style-type: none"> • Laboratory and library needs to be updated and modernised • Effective training for the overall development of students in academic and career growth can be provided • Effective guidance and counselling for students can be imparted

- Possibility of starting consultancy services can be explored
- New generation courses can be started in the vocational stream

Challenges

- Shortage of working days has to be managed effectively
- Deficiency in generating funds has to be overcome
- Infrastructural facilities to be improved upon.
- The support of the alumni can be encouraged.

Future plans

- Efforts to retain the good academic performance in both UG and PG students
- To provide awareness classes for the public about food adulteration.
- Increase research facilities with modern research lab
- To conduct a workshop on research methodology for research scholars and PG students
- To conduct exhibitions and awareness campaigns for the public and students on the uses and abuse of chemicals in daily life.
- Evolve a formal mechanism to undertake extension activities by using the expertise of faculty available in the department
- To introduce a new PG course on Polymer Chemistry

POST GRADUATE DEPARTMENT OF BOTANY & RESEARCH CENTRE

1	Name of the Department	POST GRADUATE & RESEARCH DEPARTMENT OF BOTANY
2	Year of Establishment	1946
3	Names of Programmes/ Courses offered	BSc. Botany MSc. Botany PhD. Botany
4	Names of Interdisciplinary Courses and the Departments/units involved	An Open Course 'Horticulture' is offered in the fifth semester for U.G. students of other Departments.
5	Annual/semester/choice based credit system (programme wise)	<ul style="list-style-type: none"> • B.Sc. – Choice Based Credit and Semester System • MSc – Semester System • PhD Course Work
6	<p>Participation of the Department in the Courses offered by other Departments: Complimentary and Courses offered to other Departments.</p> <ul style="list-style-type: none"> • Complimentary subjects like Micro Biology, Lichenology, Bryology, Biophysics, Biochemistry, Environmental Biology, Plant pathology etc. are offered to U.G. students of the Zoology Department. <p>Complimentary Courses offered by other departments</p> <ul style="list-style-type: none"> • Animal Diversity I & II, Applied Zoology and Functional Zoology are offered by the Botany Department to U.G. Students of our Department. • Principles of Organic and Bio-Organic Chemistry is offered to 3rd and 4th semester U.G. students by the Chemistry Department. <p>Language Courses</p> <ul style="list-style-type: none"> • Language courses offered by English, Hindi, Malayalam and Sanskrit Departments. 	
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses /programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	3	3
Assistant Professors	5	5

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt./ Ph.D./ MPhil. etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr. V.S. Harikumar	MSc, M.Ed., M.Phil., Ph D	Associate Professor & HOD	Microbiology	23	05

2	Dr. P.R. Unnikrishna Pillai	MSc., M Phil., PhD	Associate Professor	Biotechnology	22	1
3	Dr. M.S. Binoj Kumar	MSc., PhD	Associate Professor	Taxonomy	21	1
4	Dr. C. Dileep	MSc., Ph.D	Assistant Professor	Mycology & Plant Pathology	10	3
5	Dr. V.N. Sanjai	MSc., B Ed., PhD	Assistant Professor	Plant Taxonomy	6	-
6	P.K. Bindu	M Sc., NET, B.Ed	Assistant Professor	Ethnobotany	6	-
7	Dr. S. Sreeranjini	MSc., B.Ed., PhD	Assistant Professor	Biotechnology	2	-
8.	Dr. T. Sunilkumar	MSc MA (Pol) MA (Soc) MEd, Ph.D	Assistant Professor	Plant Taxonomy & Ethnobotany	7	-

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NIL

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	15:1	15:1	16:1	16:1	16:1
P.G.	4:1	4:1	4:1	4:1	4:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Sanctioned – 05	
Filled – 05	
Name	Designation
N. Rajeev	Herbarium Keeper
R. Sreenivasan	Lab Assistant
V. Suresh Kumar	Lab Assistant
A.N. Vasudevan Pillai	Lab Assistant
N. Radhakrishnan.	Gardener.

15. Qualifications of teaching faculty with DSc/ D. Litt /Ph. D/ M. Phil / P.G.

Number of present faculty members with highest degree		
Ph. D.	M. Phil.	M.A.
07	Nil	01
*Qualification of each faculty is given in item No.10 above.		

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

(a) National:					
Sl. No	Name of the Project Holder	Title	Agency	Amount (Rs.)	Level of Completion/Year
Ongoing Projects					
1	Dr. S. Sreeranjini	Evaluation and propagation of Citron (Citrus medic L.)	UGC	1,85,000	Progress Report Submitted

Completed					
1	Dr. V.S Harikumar	Studies on the effect of Salinity intrusion on soil microbial community structure and activities in wetland agro-ecosystems	UGC	1,70,000	October 2015
2	Dr. C. Dileep	Isolation, Purification and Potential use of Plant Growth Promoting Rhizobacteria in Kuttanad Region.	UGC	1.40,000	Submitted 2013
3	Dr. C. Dileep	Isolation, Screening, and Developing the pesticide and Herbicide resistant Fluorescent Pseudomonas strains in Kuttanad region.	UGC	1,60,000	Submitted 2016
4	Dr. M.S. Binoj Kumar	Establishment of medicinal plant garden in SD College Alappuzha	State Medicinal Plant Board	2,20,000	2014
(b) International: NIL					

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc. and total grants received:

Sl. No.	Name of the Coordinator	Title	Agency/ Department	Amount (Rs.)	Level of Completion/Year
1	Dr. P.R. Unnikrishna Pillai	DST-FIST	DST	7, 29, 471/-	Under Implementation

18. Research Centre/facility recognized by the University:

Year of Establishment	Affiliation details	Number of PhD Students enrolled	Facilities Available for Research
1997	University of Kerala ACE 1.2-4015/1995 dated 11/04/1997	07	<ul style="list-style-type: none"> ➤ One Research Laboratory, ➤ One Tissue Culture Laboratory, Instrumentation room ➤ Separate Research Scholars Room

Lab Equipments available for Research

Tissue Culture Laboratory:

Laminar Flow (Make: Labline 1 no), Culture rack (Make: Kemi 2 nos), Microwave Oven (Make: Samsung), Hot air oven (Make: Rotek 1 no).

Research Laboratory:

Laminar Flow (Make: Labline 1 no), U-V Spectrophotometer (Make: Systronics 1 no.), Colorimeter (2 nos), Flame Photometer (Make: Elico 1 no.), Digital Balance (Shimadzu 2 nos), Research microscopes (Make: Olympus 3 nos), Multi parameter tester (Make: Eutech 1 no), ph meters (Elico: 2 nos), Research Centrifuge (Make: Remi 2 nos), Magnetic Stirrer

(Make: Remi 1 no), Clinical centrifuges (Make: Remi 2 nos), Kjeldal assembly (I No), Rotary Shaker (Make: Remi: 1 No), Deep freezer (Make: Labline 1 no.), BOD incubator (Make: Labline 1 No), Refrigerators (Make: Samsung, LG 2 nos), Distillation Unit (Make: Rievera 1 No).

19. Publications per faculty

BOOKS/EDITED BOOKS/CHAPTERS IN BOOK

Sl. No	Author	Title of the Book	Type of the book*	Publisher, Place & Year, ISBN No.
1.	Dr.P.R.Unnikrishna Pillai	In vitro andrographalide production from irradiated Andrographis sps.	Book	Lambert academic publishing. 2012 ISBN No. 978-3-8484-3272-1
2.	Dr.P.R.Unnikrishna Pillai	In vitro production of ephedrine through colchiploidy from Sida sps.	Book	Lambert academic publishing 2012 ISBN No. 978-3-8465-8862-5
3	Dr.P.R.Unnikrishna Pillai	Induced mutation on plants by laser and other mutagens	Book	Lambert academic publishing 2012. ISBN No. 978-38473-29992
4	Dr. M.S.Binojkumar	Flora of India vol.23	Book	Botanical Survey of India 2012. ISBN NO.81-8177-049-8
5	Dr.C. Dileep	Rhizosphere Fluorescent Pseudomonas – A New Perspective	Book	Lambert academic publishing 2012 ISBN:978-3-8484-4604-9
6.	Dr.C. Dileep	Plant Protection –An Integrated Approach	Book	Lambert academic publishing 2012 ISBN:978-3-659-10527-2
7.	Dr. V.N.Sanjai	Flora of India vol.23	Book	Botanical Survey of India. 2012. ISBN NO: 81-8177-049-8

JOURNAL ARTICLES

Sl No	Article Title	Journal Title	Author & Co Authors	No.of Citations and Impact factor
1	Arbuscular mycorrhizal associations in sesame under low-input cropping systems	Archives of Agronomy and Soil Science. DOI: 10.1080/03650340.2014.932906. 2014	Dr.V.S. Harikumar	0.549
2	Removal of cadmium from sea-food effluent contaminated soil by indigenous biological adsorbants assessed with soil microbial biomass	Asian Journal of Water, Environment and Pollution 11: 69-74. 2014	Dr.V.S. Harikumar	--

3	Spectral response of root extracts of arbuscular mycorrhizal and non mycorrhizal rice	J. Mycol. Plant Pathol 41: 481-482, 2011	Dr. V.S. Harikumar	--
4	Arbuscular mycorrhizal fungi associated with common plants of Eritrea, northeast Africa	Applied Ecology and Environmental Research DOI:10.15666/aeer/1301_193203.2014	Dr. V.S. Harikumar	--
5	Infectivity of arbuscular mycorrhizal fungus <i>Glomus dimorphicum</i> in sesame after long-term incubation in different soil types in the absence of host plants under two levels of phosphorus availability	J. Indian Bot. Soc. 93: 264-268. 2014	Dr. V.S. Harikumar	--
6	Are there arbuscular mycorrhizal associations in carnivorous plants <i>Drosera burmanii</i> and <i>D. indica</i> .	Botanica Serbica 37: 13-19.2013	Dr. V.S. Harikumar	--
7	Arbuscular mycorrhizal associations and its influence on phenotypic and growth characters of sweet potato under varied soil availability	Tropical Agriculture (Trinidad) 89: 216-228. 2012.	Dr. V.S. Harikumar	--
8	Symbiotic response of sesame (<i>Sesamum indicum</i> L) to different indigenous arbuscular mycorrhizal fungi (AMF) from rice fallows of Kerala	Journal of Agricultural Technology 9: 1631-1640. 2011	Dr. V.S. Harikumar	--
9	Enumeration of some potential medicinal (polypetalae) in the district of Alappuzha(Kerala)	Journ.Econ.Taxon.Botany Vol.37(4)777-785, 2013	Dr.M.S. Binoj Kumar	--
10	Enumeration of some potential medicinal plants(Polypetale)in the District of Alapuzha(Kerala)-II	Journ.Econ.Taxon. Botany Vol.38(2)279-281 2014	Dr.M.S. Binoj Kumar	--
11	Notes on Eleuthrine bulbosa(Mill.)Urb.A fast naturalizing exotic bulb crop among the Ulladan Tribal Community in Kerala State.	Journal Of Economic and Taxonomic Botany Vol.38(2)279-281 2014	Dr.M.S. Binoj Kumar	--
12	A unique Ethnomedicinal oil prepared by Ulladan Tribal Community of Kerala State.	Journal Of Economic and Taxonomic Botany Vol.38(2) 355-358 2014	Dr.M.S. Binoj Kumar	--
13	Ethnobotanical Study of Ulladan Tribal Community in	J. Econ. Taxon. Bot Vol39#1(2015)197-207	Dr.M.S. Binoj Kumar	--

	Alappuzha District, Kerala			
14.	Two Ethnomedicinal oils prepared by Ulladan Tribal Community to cure Tooth ache	Journal of Economic and Taxonomic Botany Vol.38(2) 359-360 2014	Dr.M.S. Binoj Kumar	--
15	Ethnobotanical Study of Ulladan Tribal Community in Kollam District,Kerala State	Econ. Taxon. Bot Vol 391(2015)208-222	Dr.M.S. Binoj Kumar	--
16	"Invitro Studies on Callus Culture and Enhanced Andrographolide Production Using Sodium Azide In Andrographis paniculata	<i>International Journal of Applied and Pure Science and Agriculture</i> , Vol-06, No-02, Pages: 254 – 261, June 2016	Dr. P.R Unnikrishna Pillai	--
17	Enhanced production of Andrographolide through the effect of gamma irradiation on Andrographis paniculata	<i>American Journal of Biopharmacology Biochemistry and Life Sciences</i> , Vol-02, No-04, Pages: 01 – 08, April 2015	Dr. P.R Unnikrishna Pillai	--
18	Effect of amino acids,organic acids , sugars iron and pH on siderophore production production of two antagonistic Fluorescent Pseudomonas strains TR and FR2 from the acidic paddy fields of Kerala.	Journal of Mycology and Plant Pathology Vol.43.No.4, Pp 466-471, 2013	Dr.C. Dileep	1.0
19	Cyclo(D-Tyr-D-Phe) : A new antibacterial, anticancer, and antioxidant cyclic dipeptide from Bacillus sp .N strain associated with a rhabditid entomopathogenic nematode.	Journal of Peptide Science Vol.20 ,pp173-185, 2014	Dr.C.Dileep	2.1
20	Biocontrol of Aspergillus species on Peanut kernels by anti fungal Diketo piperazine producing Bacillus cereus associated with Entomopathogenic Nematode	PLOS ONE e106041 Volume 9 issue 8, August 2014	Dr.C.Dileep	3.8 Thomson-OCR Reuters
21	Three bioactive cyclic dipeptide from the Bacillus sp N strain associated with entomopathogenic nematode.	Peptides Vol .53,2014 pp.59-69	Dr.C. Dileep	3.8 Thomson Reuters
22	Purification and characterization of antifungal phenazines from a fluorescent Pseudomonas strain FPO4 against medically important fungi.	Journal of Medical Mycology 2014 (24) ,185-192	Dr.C. Dileep	2.1 Thomson Reuters

23	Antimycobacterial activity of crude extracts produced by <i>Bacillus</i> sp. associated with entomopathogenic nematode.	International Journal of Pharmacy and Pharmaceutical Sciences 6(9) 140-142 (2014)	Dr.C. Dileep	1.54
24	Investigation of antifungal activity of stilbenes alone and in combination with fluconazole against <i>Candida albicans</i> .	International Journal of Pharmacy and Pharmaceutical Sciences. 6 (4); 304-307 (2014)	Dr.C.Dileep	1.54
25	First Report of a Leaf Disease of Rambutan(<i>Nephelium lappaceum</i> L.) plant in India	J. Plant Development Sciences 5 (3) :285-286,2013	Dr.C.Dileep	0.75
25	Ethnobotanical Study of Ulladan Tribal Community in Alappuzha District,Kerala,India	J. Econ. Taxon. Bot. Vol39#1(2015)197-207 2015	P.K. Bindu	--
27	Ethnobotanical Study of Ulladan Tribal Community in Kollam District,Kerala State	J. Econ. Taxon. Bot. 39(1) 208-222. 2015.	P.K. Bindu	--
26	Enumeration of some potential medicinal (polypetalae) in the district of Alappuzha(Kerala)-I	J..Econ.Taxon.Botany Vol.37(4)777-785, 2013	P. K. Bindu	--
28	Enumeration of some potential medicinal (polypetalae)in the district of Alappuzha(Kerala)-II	J. Econ.Taxon.Botany Vol.37(4):777-785, 2014	P.K. Bindu	--
29	Notes on <i>Eleutherine bulbosa</i> (Mill.)Urb.A fast naturalizing exotic bulb crop among the Ulladan Tribal Community in Kerala State	J. .Econ.Taxon.Botany Vol.38(2): 279-281 2014	P.K. Bindu	--
30	A unique Ethnomedicinal oil prepared by Ulladan Tribal Community of Kerala State.	J. Econ.Taxon.Botany Vol.38(2): 355-358 2014	P.K. Bindu	--
31	Two Ethnomedicinal oils prepared by Ulladan Tribal Community to cure Tooth ache	J. .Econ.Taxon.Botany Vol.38(2): 359-360 2014	P.K. Bindu	--
32	Evaluation of anti-genotoxicity of the leaf extracts of <i>Morinda citrifolia</i> Linn.	Plant Soil Environment	Dr.S. Sreeranjani	1.4
33	Production of anthraquinones from adventitious root derived callus and suspension cultures of <i>Morinda citrifolia</i> L. in response to auxins, cytokinins and sucrose levels.	Asian Journal of Plant Science and Research 3: 131-138 (2013)	Dr.S. Sreeranjani	0.5

34	Field Performance and genetic fidelity evaluation of Micropropagated morinda citrifolia l.	Indian Journal of Biotechnology 13:121-130.(2014)	Dr.S. Sreeranjani	H Index 20
35	Optimising elicitors and precursors to enhance Alizarin and Purpurin production in adventitious roots of Morinda citrifolia Linn	Proceedings of the National Academy of Sciences India Section-B Biological Sciences. Springer	Dr.S. Sreeranjani	0.39
36	The Magical Relief of Vitex negundo L. Practiced by Ulladan Tribes in Alappuzha district of Kerala	J. Econ. Taxon. Bot. 54 (4): 940-942. 2011	Dr.T.R Sunilkumar	2
37	Some Medicinal Plants of Verbenaceae used by Traditional Medical Practitioners of, Alappuzha District, Kerala State. India	J. Econ. Taxon. Bot 36 (2): 393-396 2012.	Dr.T. Sunilkumar	2
38	Verbena bonariensis L. (Verbenaceae)- An addition to Flora of Kerala	Research Lines (2): 122-124. 2011	Dr.T. Sunilkumar	--
39	Ethnobotanical investigation among the Ullada Tribes of Alappuzha District in Kerala State, India	J. Econ. Taxon. Bot. Vol .35 (3):449-454. 2011	Dr.T. Sunilkumar	2
40	Lippia alba (Mill.) N. E. Br (Verbenaceae) - An addition to Flowering Plants of Kerala.	Ind. J. Forestry. 35 (1): 105- 106. 2012	Dr.T. Sunilkumar	--
41	Clerodendrum cordatum D. Don (Verbenaceae) - An addition to flowering plants of Kerala	J. Econ. Taxon. Bot. No. (I .)- pp 46-49. 2012	Dr.T. Sunilkumar	2
42	Some Sacred Plants Used by Namboodiri Brahmins for Worship and Medicine	Research Lines, Vol. IV, No. I-B pp 19-25. 2011	Dr.T. Sunilkumar	--
43	Premnas scandens Roxb. (Verbenaceae) – A New Distribution Record from.South India	J. Econ. Taxon. Bot Vol.37.No. .PP 50-52. (2013)	Dr. T. Sunilkumar	2
44	Medicinal food to relieve after effect of snake bite problems, by Malapanicker in Kerala state,India	J. Econ. Taxon. Bot Vol. 37 No.3. (2013)	Dr.T. Sunilkumar	2
45	Critical notes on Premna coriacea var. villosa (C.B. Clarke) A. Rajendran & P. Daniel (Verbenaceae) after a lapse of 140 years from Kerala (Verbenaceae) after a lapse of	J. Econ. Taxon. Bot, Volume 37 # 1 (2013) Page No.50 to 52	Dr.T. Sunilkumar	2

	140 years from Kerala			
46	Study on ethnobotanical uses of some selected plants by malamchandarams residing at Sabarimala forest Kerala	J. Econ. Taxon. Bot vol 38 # 3-4 (2015) Page No 622-633	Dr.T. Sunilkumar	2
47	A new species of the genus Premna L. (Lamiaceae) from Western Ghats of India	J. Econ. Taxon. Bot Vol 68 (2): 127-131.2014.	Dr.T. Sunilkumar	2,5
48	In vitro regeneration of Lippia alba (mill.) N.E. Br. An ethnobotanically useful plant	International Journal of Bioassays 3(7): 3119-3121, 2014	Dr.T. Sunilkumar	2.5
49	Ic-ms analysis of rind and pulp of citrus limon (l.) burm. f. fruits	International Journal of Bioassays 3(12): 3594—3597. 2014	Dr.T. Sunilkumar	2.5

Conference Proceedings

Sl. No	Name	Title of the Article	Name of the Proceedings	Page Nos. & year, ISSN No.,
1.	Dr. C. Dileep	Suppression Properties of Two Pseudomonas strains Isolated from Paddy fields of Kuttanad, Kerala	Proceedings of Mycol Plant Pathol.,	Vol-43, No-1, Page: 115. 2013. Print ISSN:0971-9393 e ISSN:0975-4180
2	Dr.T. Sunilkumar	Degradation of Herb – Biodiversity in Kerala by National Rural Employment Guarantee Scheme.	Biofest. SreeNarayana College ,Punalur Kollam, Kerala. P-51	P-51. 2012
3.	Dr.T. Sunilkumar	Magical relief by some members of <i>Verbenaceae</i> family used by Ullada Tribes of Kerala State	. Absrtact Published in the proceedings of XX Annual conference of Indian Association for Angiosperm Taxonomy (IAAT)-.	pp182-183 2012

Popular Publications (Magazines, News Papers etc.)

1	Dr.T. Sunilkumar	Lichenu oru Like.	Popular Malayalam news paper Mathrubhoom's Vidya page-(educational)page)	2013
2	Dr.T. Sunilkumar	Karinochi mahaalmyam	Mathrubhoom's Vidya page-(educational)	2014
3	Dr.T. Sunilkumar	My dear Payar	Mathrubhoom's Vidya page-(educational)	2014
4.	Dr.T. Sunilkumar	Visham oushadhamaakumbol	Mathrubhoom's Vidya page-(educational)	2015
5.	Dr.T. Sunilkumar	Magical Pillows.	Science Voyager.	2015

6	Dr.T. Sunilkumar	Dont Throw energy around you.	Science Voyager.	2015
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20. Areas of consultancy and income generated:

Sl.No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1	Soil Nutrient evaluation for local farmers	Expert opinion	Dr. V.S. Harikumar	2011 onwards	Local Farmers	Free of charge
2	Laboratory Services for Students from other institutions	Guidance	Dr. V.S. Harikumar	2015-16	Students	Free of Charge
3	Identification of plant species for Research Scholars of other institutions	Expert opinion	Dr. V.N. Sanjai	2014 and 2015	Research Scholars	Free of Charge
4	Laboratory services for School students	Guidance	Smt. P. K. Bindu	2015-16	School Students	Free of charge

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

National		
Faculty	Membership	Year
Dr. V.S. Harikumar	Member, P.G. Board of Studies (Microbiology)	21/5/2013 to 20/5/2016
Dr. V.S. Harikumar	Member, P.G. Board of Studies (Botany)	24/10/14 to 23/10/17
Dr. V.S. Harikumar	Served as Journal Reviewer for Elsevier Science	2016
Dr. V.S. Harikumar	Member, Science Alert, Dubai, UAE	Since 2011
Dr. V.S. Harikumar	Technical Editor: Asian Journal of Plant Sciences, International Journal of Botany, Research Journal of Soil Biology and Asian Journal of Biological Sciences	2011 onwards
Dr. V.S. Harikumar	Served as Journal Reviewer for Elsevier Science, Amsterdam, Netherlands	2016
Dr.M.S.Binoj Kumar	Member, Board of studies Environmental Biology	2011 -14
Dr. C. Dileep	External Member, PG Board of Studies in Botany, Mahatma Gandhi University, Kottayam , Kerala	2014- till date
Dr. C. Dileep	Member, SCERT Curriculum Sub Committee	2014-till date
Dr. C. Dileep	Member, Malpractices Prevention Squad, University of Kerala.	29/01/2016 to 30/03/2016
Dr. C. Dileep	Convener, Malpractices Prevention Squad, University of Kerala.	06/04/2016 to 13/05/2016

Dr. V.N Sanjai	Member, Malpractices Prevention Squad, University of Kerala	06/04/2016 to 13/05/2016
Dr. V.N Sanjai	Member, UG and PG Board of studies, Sacred Heart College (Autonomous), Thevara	From 2014 onwards

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme*
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies**

(i) U.G. Programme

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	-	-	-	100	100	100
(b)**	0	0	0	0	0	0

(ii) P.G. Programme

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	100	100	100	100	100	100
(b)**	0	0	0	0	0	0

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/ Award	Awarded by
2016	Dr. V.S. Harikumar	Faculty	Best Paper Award	NANO-15, KSR College of Technology, Thiruchengode
2012- 13	Dr. P. Unnikrishnana Pillai	Faculty	Member, Kerala State Bio-diversity Board	Govt. of Kerala
2014- 15	Dr. C. Dileep	Faculty	GenBank Accession No KF500003 GenBank Accession No KF712283 GenBank Accession No KF712284 GenBank Accession No KR061875.1 GenBank Accession No KR061876.1	
2013	Dr.S. Sreeranjani	Faculty	Best Paper presentation award , U G C sponsored 'National Seminar on New Frontiers in Molecular Biology	Mar Athanasius College, Kothamangalam, Kerala
2013	Dr. T. Sunil Kumar	Faculty	First and only scientific work from India for submitting molecular Identification of the Plant Clerodendrum infortunatum in NCBI.	Got accession number from the Gen Bank NCBI
2012	Liji Varghese	Student	MSc Botany Topper	Department
2012	Monisha. M	Student	BSc Botany Topper	Department
2013	Haripriya	Student	MSc Botany Topper	Department
2013	Reshma T.S	Student	BSc Botany Topper	Department
2014	Unnimaya S	Student	MSc Botany Topper	Department

24. List of eminent academicians and scientists/ visitors to the department: NIL

25. Seminars/ Conferences/ Workshops organized and the source of funding: NIL

26. Student profile programme/ course wise:

(a) U. G. Programme					
Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	102	39	9	30	97.22
2012-13	134	46	19	27	85.29
2013-14	197	40	9	30	82.35
2014-15	256	46	19	27	72.34
2015-16	234	41	-	-	-

(b) P.G. Programme					
	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	76	18	2	16	81.25
2012-13	84	17	2	15	81.25
2013-14	102	18	2	16	83.33
2014-15	103	18	2	15	94.44
2015-16	118	17	-	-	-

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	% of students from Abroad
2011-12	U. G.	100	--	--
	P.G.	100	--	--
2012-13	U.G.	100	--	--
	P.G.	100	--	--
2013-14	U.G.	100	--	--
	P.G.	100	--	--
2014-15	U.G.	100	--	--
	P.G.	100	--	--
2015-16	U.G.	100	--	--
	P.G.	100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc.?-

No. of students qualified NET in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
-	-	01	-	-

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. to P.G.	6%	12%	0%	22% % %	6%
PG to M.Phil.	--	--	--	--	--
P.G. to Ph.D.	--	--	--	--	--
Ph.D. to Post-Doctoral	--	--	--	--	--

Employed:					
Campus Selection	--	--	--	2	--
Other than Campus recruitment	2	1	5	4	--

30. Details of Infrastructural facilities

Library	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs in the Dept.
Department Library Books: 200 Journals: Back volumes of 10 Journals No. of Books available in the General library: 3108	Broadband internet facility for staff and students is available at the Department	Nil	03

31. Number of students receiving financial assistance from college, university, government or other agencies.

Name/Category	2011-12	2012-13	2013-14	2014-15	2015-16	Total
Scholarship From Govt. For various categories:						
OBC	19	19	14	11	12	75
SC	21	22	20	26	24	113
OEC	24	21	14	24	26	109
KPCR	49	44	51	46	41	231
SEBC	10	14	19	15	10	68
FC	2	2	4	1	3	12
ST	-	-	-	1	1	2
Total No of Students	125	122	122	124	117	610
Total Amount	6,15,367/- (Six Lakhs Fifteen Thousand Three Hundred and Sixty Seven Only)					

Note: KPCR- Kumara Pillai Commission Report

SEBC- Socially and Economically Backward Communities.

FC - Fees Concession.

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts: NIL

33. Teaching methods adopted to improve student learning

<ul style="list-style-type: none"> • Routine class room teaching is supplemented by practical methods and participatory learning methods. • The campus has a herbal garden and students are regularly taken there as part of their academic activities. • Field visits and study tours to famous institutions, botanical gardens and nature parks are arranged with an aim to get a visual experience on different plants in their natural ecosystem, and to familiarize the students with the latest trends in research. • Students are systematically and regularly required to prepare herbarium for reference. • The department is a research centre, with tissue culture laboratory, and other facilities for research, that benefit the regular teaching learning procedures. • An Agri-horticultural exhibition is organized every year by the department, with the active participation of staff, students and the public. This is a learning experience for the students, as they are involved in all organisational aspects of the event. • The Open Course offered by the department is Horticulture, which attracts many students to the course.

34. Participation in Institutional Social Responsibility (ISR) and extension activities

- The staff and students of the Department actively participate in the Agri-Horti Exhibition conducted every year in the SDV School grounds. The department offers technical support and advice in this venture..
- The department leads the conduct of the Haritha Sanatanam Programme. Dr.C.Dileep and Dr.P.R.Unnikrishna Pillai served as the co-ordinators of the Bhoomitrasena Club.
- Eco Club Activities are also headed by the department, and Dr.Binoj Kumar is the co-ordinator. Enumeration and labelling of trees and plants is done by the staff and students of this department.
- Staff and students whole heartedly participate in the Annam Sanatanam Programme.

35. SWOC analysis of the department and future plans

(a) SWOC analysis

Strengths

- Eminent and dedicated permanent faculty.
- The department is a research centre with active research going on.
- A good number of quality research publications have been produced by the faculty.
- Many faculty serve as resource persons and academic advisors in research institutes and govt/university bodies.

Weaknesses

- Inadequacy of sufficient time to complete the topics in a satisfactory manner
- Lack of academic freedom to chart out a syllabus based on local needs

Opportunities

- There is the opportunity to develop meaningful linkages with local agricultural/horticultural communes, govt departments and research institutes, which needs to be explored
- To share the research output with the local farming community for their development
- To increase the involvement of students in more co-curricular and extension activities.

Challenges

- Find time for extra activities curtailing the teaching hours.
- To improve standard of students by innovative learning methods and language skills.

(b) Future plans

- To Strengthen the Department by way of imparting quality teaching, research and extension activities
- Conduct of national/international seminars with the participation of eminent researchers/ scientists in the latest research areas.
- Development of skill in practical botany and horticulture.
- To establish academic and industrial collaborations and linkages with national/international universities/institutes.

POST GRADUATE DEPARTMENT OF ZOOLOGY & RESEARCH CENTRE

1	Name of the Department	POST GRADUATE DEPARTMENT OF ZOOLOGY AND RESEARCH CENTRE
2	Year of Establishment	1946
3	Names of Programmes/ Courses offered	B. Sc, M. Sc, Ph. D
4	Names of Interdisciplinary Courses and the Departments/units involved	An Open Course (Health and Sex Education) is offered in the fifth Semester for U.G. students of other departments.
5	Annual/semester/choice based credit system (programme wise)	B.Sc. – CBCSS M.Sc. – Semester System Ph.D programme in Zoology
6	Participation of the Department in the Courses offered by other Departments: Foundation and Open Courses: <ul style="list-style-type: none"> • General Informatics and Bio Informatics offered to U.G. Students. • Open courses - Chemistry, Botany and all open courses offered by other departments. Complimentary Courses from other Departments <ul style="list-style-type: none"> • Theoretical Chemistry, Inorganic and Bio Inorganic Chemistry, Organic and Bio Physical Chemistry etc. are offered to our U.G. students by the Chemistry Department. • Micro technique, Angiosperm Anatomy and Reproductive Botany; Psychology, Mycology, Lichenology, Bryology, Pteridology, Gymnosperms and Plant Pathology etc are offered to our U.G. students by the Botany Department. Complimentary Courses offered to other Departments <ul style="list-style-type: none"> • Animal Diversity (I and II), Functional Zoology, Applied Zoology etc. are offered to U.G. students of Botany Department. 	
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses /programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	6	6
Assistant Professors	2	2

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./MPhil. Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years

1	Dr. K. REGHUNATH	M.Sc,M.Phil, Ph.D	Associate Professor	Environmental Biology	27	--
2	Sri. N.JAYACHANDRAN	M.Sc,M.Phil	Associate Professor	Environmental Biology	25	--
3	Dr. MEENA JANARDHANAN	M.Sc, M.Phil Ph.D	Associate Professor	Cancer Biology	25	-
4	Smt. S.NISHA RANI	M.Sc, M.Phil	Associate Professor	Biochemistry	25	-
5	Dr. N. PRABHAKARAN	M.Sc, Ph.D	Associate Professor	Microbiology	23	-
6	Dr. G. NAGENDRA PRABHU	M.Sc, Ph.D,	Assistant Professor	Biotechnology	20	02
7	Dr. P.G.SURESH	M.Sc, Ph.D,	Associate Professor	Environmental studies	20	-
8	Dr. MAYA B.NAIR	M.Sc, B.Ed, Ph.D	Assistant Professor	Biochemistry	10	-

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NIL

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. (Core)	18:1	18:1	18:1	18:1	18:1
P.G.(Core)	4:1	4:1	4:1	4:1	4:1

14. Number of academic support staff (technical) and administrative staff;

Sanctioned –3

Filled –3

15. Qualifications of teaching faculty with DSc/ D. Litt/ Ph. D/ M. Phil/ P.G.

Number of present faculty members with highest degree		
Ph. D.	M. Phil.	M.Sc.
6	2	-
*Qualification of each faculty is given in item No.10 above.		

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

(a) National: Ongoing Projects

Sl. No	Name of the Project Holder	Title	Funding Agency	Amount	Level of Completion
1.	Dr. Meena Janardhanan	Evaluation of anticancer effect of <i>Cyclea peltata</i>	U.G.C Minor	2,30,000	In progress
2.	Dr. Maya B. Nair	Lipid peroxidation and antioxidant status in frozen meat (<i>Bubalis bubalis</i>) samples	U.G.C Minor	2,40,000	In Progress
3	Dr. G. Nagendra Prabhu	Exhibition and Workshop on Value Addition of Aquatic Weeds of Kerala	KSCSTE 2, 00,000	2,00,000	In Progress
Completed					

1	Dr. G. Nagendra Prabhu	Cellulase production by selected bacteria using <i>Salvinia molesta</i> as solid substrate under SSF	UGC Minor	95,000/-	Completed (2011)
2	Dr. G. Nagendra Prabhu	“Development of a solid state fermentation technology for cellulase production using <i>Salvinia molesta</i> as substrate	KSCSTE Major	13.15 lakhs	Completed (2012)
3	Dr. G. Nagendra Prabhu	Valorization of Aquatic Weeds of Kerala	KSCSTE Major	4 lakhs	Completed (2015)

International: NIL

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc. and total grants received:

Sl. No.	Name of the faculty/Coordinator	Project Title	Major/Minor	Funding agency	Date of Sanctioning and Amount	Status
1	Dr. G. Nagendra Prabhu	FIST-DST	Major	DST	01.11.2015 Rs. 5,58,975/-	Under Implementation

18. Research Centre/facility recognized by the University:

Year of Establishment	Affiliation details	Number of PhD Students enrolled	Facilities Available for Research
1998	No. Ac. EIA.2.4025/95 dtd. 10/09/2002	6	Well equipped laboratory and Library

19. Publications per faculty

CHAPTERS IN BOOKS/EDITED BOOKS/BOOKS

Sl. No.	Author	Title of the Book	Type of the book*	Publisher, Place & Year, ISBN No.
1	G. Nagendra Prabhu and R. Suresh Chandra Kurup	Bacterial cellulase production under solid state fermentation – <i>Eichhornia crassipes</i> as substrate.	Book	Lambert Academic Publishers, Germany 2012 ISBN 978-3-8473-3760-7
2	Suresh P. V and G. Nagendra Prabhu	Valorization of seafood processing by-products by biological methods.	Book	CRC-Taylor Press, USA. 2012, pp. 685-736;
3	Dr. Maya B. Nair	Chordata	Text book	Manjusha Publications, Kozhikode.
	C. Snishamol, S.	Backwater tourism in	Tourism	Sonali

4	Jayadev, R. Suresh Chandra Kurup and G. Nagendra Prabhu	Kerala with special reference to Alappuzha district – major threats and remedies	Trends and Strategies	Publications, New Delhi 2011, pp 97- 111: ISBN 978-81- 8411-370-1
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JOURNAL ARTICLES

Sl. No.	Article Title	Journal Title	Author & Co Authors	No. of Citations and Impact factor
1	Evaluation of the antioxidant potential of methanol extract of <i>Cyclea peltata</i> in DAL Model	Pharma Innovation, 2015 4(1)b 71-75	Dr. Meena Janardhanan	0.324
2	Efficacy of methanolic extract of <i>Cyclea peltata</i> as a potent anticancer equivalent	European journal of environmental ecology, 2015 2(2)65-71	Dr. Meena Janardhanan	1.2
3	Antitumor activity of methanolic extract of <i>Cyclea peltata</i>	International journal of phytomedicine, 2015 7 (2) 185-192	Dr. Meena Janardhanan	1.2
4	Process parameters influencing tannase production by <i>Aspergillus niger</i> using mangrove (<i>Rhizophora apiculata</i>) bark in solid substrate fermentation.	African Journal of Biotechnology	Tan Wee Yee, Nagendra G. Prabhu, Jain, K. and Darah Ibrahim	--
5	Glutathione antioxidant status of frozen buffalo (<i>Bubalis bubalis</i>) and chicken (<i>Gallus domesticus</i>) meat sample	Proceedings of National Symposium on Biosciences in the Genomic Era	Dr. Maya B. Nair	Forthcoming
6	Mushroom cultivation using aquatic weeds of Kerala	Proceedings of National Symposium on Emerging Trends in Biotechnology	G. Nagendra Prabhu & Anoop Kumar. V, Sreelakshmi. T. P, Azmi. T, Bindu. P, Unnikrishna Pillai. P. R	ISBN 978-93-80095-47-9, 2014, 166-176

Popular Publications(Magazines, News Papers etc..)

Sl. No	Name of the faculty	Article title	Publication details	Year
1	Dr. G. Nagendra Prabhu	“Vellathil Koyyam”	Malayala Manorama Newspaper, All	11 th August 2014

			editions	
2	Dr. G. Nagendra Prabhu	“Vellathilumaakam Krishi”	Mathrubhumi Daily, “Karshakarangam” All editions	13 th December 2014

20. Areas of consultancy and income generated:

Sl. No.	Details of Project/activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/Free
1	Scientific Advisor	Student projects at School and Polytechnics	Dr. G. Nagendra Prabhu	2000 onwards	Various School and Polytechnic students	Free
2	Exhibitions and Training on utilizing aquatic weeds	Opinion/Expertise	Dr. G. Nagendra Prabhu	2013 onwards	General Public, Self Help Groups, NGOs	Govt. Sponsored and free

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

Faculty	Membership	Year
National		
Dr. K.Reghunath	Member, P. G. Board of Studies in Zoology, Univ. of Kerala, Trivandrum	2011-2014
Dr .G. Nagendra Prabhu	Member, P. G. Board of Studies in Biotechnology, Univ. of Kerala, Trivandrum	2009-12
Dr .G. Nagendra Prabhu	Member, U. G. Board of Studies in Biotechnology, Bharathiar University, Coimbatore, T. Nadu	2009-12
Dr .G. Nagendra Prabhu	P. G. Board of Studies in Biotechnology, Univ. of Kerala, Trivandrum, Member & Convener, Syllabus Review Committee	2011-14
Dr .G. Nagendra Prabhu	Indian Science Congress Association Life Member	1993 onwards
Dr .G. Nagendra Prabhu	Association of Microbiologists of India Life Member & Secretary, Cochin Unit	1995 onwards
Dr .G. Nagendra Prabhu	Society for Biological Chemists (India), Life Member	1993 onwards
Dr .G. Nagendra Prabhu	Society for Biotechnologists (India) Life Member & Secretary	1995-1999
Dr .G. Nagendra Prabhu	Biotechnology Research Society of India Life Member & Member ,Board of Governors	2003-2011
Dr .G. Nagendra Prabhu	Society for Scientific and Educational Research, India - Life Member	2014 onwards
Dr .G. Nagendra Prabhu	Inspection Committee for new courses under the Univ. of Kerala - Subject Expert	2013
Dr.P. G. Suresh	U. G. Board of Studies in Zoology, Univ. of Kerala, Trivandrum - Member	2015

Dr. Maya B. Nair	Zoological Society of Kerala, M.G. University, Kottayam.	Life Member
Dr. Maya B. Nair	SCERT Curriculum Sub Committee - Member	2013 till date
Dr. Maya B. Nair	Sanatanam: An Interdisciplinary Journal, Academic & Research Forum - Member of Editorial Board	2015
Dr. Maya B. Nair	Member, Board of Studies of Zoology, CMS College, Kottayam (Autonomous), Affiliated to Mahatma Gandhi University	2015

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme*
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies**

U.G. Programme - Final Year

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	-	-	100	100	100	100
(b)**	-	-	0	0	0	0

P.G. Programme – Final Year

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	100	100	100	100	100	100
(b)**	0	0	0	0	0	0

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/ Award	Awarded by
2013	Dr. G. Nagendra Prabhu.	Faculty	SPARK Award	Mathrubhumi-SEED State Level Research Project Competition
2014	Dr. G. Nagendra Prabhu	Faculty	P. A. Harris Foundation	P. A. Harris Foundation -Contribution to Education
2014	Dr. G .Nagendra Prabhu	Faculty	Microbiologist Award	Society for Scientific Education & Research Contributions in the area of Microbiology
2014	Dr. G.Nagendra Prabhu	Faculty	Rural Innovator Award	Rural Innovators' Meet 2014
2014	Dr. G.Nagendra Prabhu	Faculty	Achiever's Award	Konkani Sahithya Acadmey, Kerala
2015	Dr. G. Nagendra Prabhu	Faculty	FLAIR Research Excellence Award	Department of Higher Education, Government of Kerala
2016	Dr. G .Nagendra Prabhu	Faculty	Special Prize	Rural Innovators' Meet 2016
2012	Parvathy A.R.	B. Sc. Student	Dr. K. S. Padmanabha Iyer and Smt. Padmavathy Devi Amma Memorial	Management

			Endowment Award to topper in B.Sc Zoology	
2012	Sneha M. Nair	M. Sc. Student	Dr. K.N. Parameswaran & Dr. K.K. Nair Memorial Endowment Award to the topper in M.Sc Zoology	Management
2013	Sachin S. Kumar	B. Sc. Student	Dr. K.S.Padmanabha Iyer and Smt. Padmavathy Devi Amma Memorial Endowment Award to topper in B.Sc Zoology	Management
2013	Meenu .R	M. Sc. Student	Dr. K.N. Parameswaran & Dr. K.K. Nair Memorial Endowment Award to the topper in M.Sc Zoology	Management
2014	Sreelekshmi J.P	B. Sc. Student	Dr. K.S.Padmanabha Iyer and Smt. Padmavathy Devi Amma Memorial Endowment Award to topper in B.Sc Zoology	Management
2014	Parvathy A.R	M. Sc. Student	Dr. K.N. Parameswaran & Dr. K.K. Nair Memorial Endowment Award to the topper in M.Sc Zoology	Management
2014	Sima Satheesh	B. Sc. Student	Merit Award to the topper in Zoology core	Department
2015	Vishnu .R	B. Sc. Student	Dr. K.S.Padmanabha Iyer and Smt. Padmavathy Devi Amma Memorial Endowment Award to topper in B.Sc Zoology	Management
2015	Vishnu .R	B. Sc. Student	Merit Award to the topper in Zoology core	Department
2015	Vishnu .R	B. Sc. Student	Merit Award (first rank)	Management
2015	Elezabeth Tomy	M. Sc. Student	Dr. K.N. Parameswaran & Dr. K.K. Nair Memorial Endowment Award to the topper in M.Sc Zoology	Management

24. List of eminent academicians and scientists/visitors to the department:

Name	Position	Occasion/ Purpose	Date of Visit
Dr. T.P. Krishnan Nair	Retired RMO, Govt. Ayurveda Hospital, Alappuzha	Zoology Association Day Celebrations	06/01/2012
Dr. C.T. Aravindakumar	Dean, School of Chemical Sciences, Mahatma Gandhi University	Invited talk in connection with National Science day Celebration	22/02/2012
Dr.K. Hariprasad	Orthopaedician,	Zoology Association	08/02/201

	Medical College, Alaappuzha.	Day Celebrations	3
Dr. S. Rupesh	Head. Dept of Dentistry, Pushpagiri Medical College, Thiruvalla	Zoology Association Day Celebrations	16/02/201 4
Dr. K.Hariprasad	Orthopaedician, Medical College, Alaappuzha	Zoology Association Day Celebrations	25/02/201 5
Dr. R Selvam	Professor & Head, Dept. of Zoology, Bishop Heber College, Trichy.	Invited talk on Career Opportunities for Zoology Graduates	19/02/201 5
Dr. Jude Emmanuel	Professor & Head, Dept. Of Environmental Science, St. John's College, Anchal.	Invited talk in connection with Ozone day Celebration	17/09/201 5
Dr. Ajith Prabhu	Joint Director, KSCSTE	Invited talk in connection with International Soil Day Celebration	12/11/201 5
Dr. Rajesh Reghunath	Coordinator, IIUCNRM, University of Kerala	Invited talk on Wetland Conservation	26/11/201 5
Dr. G. Prasad	Professor & Head, Dept. of Zoology, University of Kerala	Invited talk on biodiversity Conservation	26/11/201 5
Dr. Chinnu S	Senior research associate, Dept of Geology, University of Kerala	Invited talk on Remote Sensing	26/11/201 5
Dr. K.G. Raghu	Principal Scientist, Agro-processing & Natural Products Division, NIIST	FLAIR Award Lecture	26/02/201 5
Dr.M. Jayakumar	Chief Psychiatrist Retired Superintendent District Hospital, Alappuzha	Zoology Association Day Celebrations	22/03/201 6

25. Seminars/Conferences/ Workshops organized and the source of funding:

Programme	Topic/ Area	Dates	Funding Agency	Amount Received
Invited Talk	National Science Day celebrations	22/02/2012	KSCSTE	20,000
Invited Talk	Career Opportunities for Zoology Graduates	19/02/2015	Department of zoology	5000
Invited Talk	Ozone Day celebrations	17/09/2015	KSCSTE	20,000
Invited Talk	International Soil Day celebrations	12/11/2015	KSCSTE	20,000
Invited Talk	Wetland Conservation	26/11/2015	IIUCNRM	30,000

26. Student profile programme/course wise:

(a)U. G. Programme

Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	167	39	9	29	78.04
2012-13	134	45	8	18	96.15
2013-14	189	40	3	27	97
2014-15	231	45	7	33	97.5
2015-16	219	47	--	--	--

(b)P.G. Programme

	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	96	16	0	14	92.38
2012-13	89	14	1	14	93.33
2013-14	121	16	1	122	100
2014-15	108	16	0	16	100
2015-16	131	16	-	-	-

Rank Holders

- ❖ 1st Rank- Vishnu R.- B.Sc. Zoology 2015, University of Kerala
- ❖ 5th Rank- Elezabeth Tomy- M.Sc. Zoology 2015, University of Kerala

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	% of students from Abroad
2011-12	U. G.	100	--	--
	P.G.	100	--	--
2012-13	U.G.	100	--	--
	P.G.	100	--	--
2013-14	U.G.	100	--	--
	P.G.	100	--	--
2014-15	U.G.	100	--	--
	P.G.	100	--	--
2015-16	U.G.	98	2	--
	P.G.	100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc.?

No. of students qualified NET in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
-	1	1	-	-

29. Student progression against % enrolled**30.**

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. to P.G.	16	46	26	13	-
PG to M.Phil.	-	-	--	-	--
P.G. to Ph.D.	-	6	2	--	--
Ph.D. to Post-Doctoral	--	--	--	--	--

Employed:					
Campus Selection	19	3	7	5	-
Other than Campus recruitment	-	15	18	18	-

31. Details of Infrastructural facilities

Library & Labs	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs in the Dept.
Department Library with 1650 books and 10 Journals	Broadband internet facility for staff and students	01	04
1. UG. Core and complimentary Laboratory 2. PG. Laboratory for MSc students 3. Research Lab 4. Instrumentation Room for researchers			

32. Number of students receiving financial assistance from college, university, government or other agencies.

Category/Name	2011-12	2012-13	2013-14	2014-15	2015-16	Total
Indira Gandhi Scholarship for Single girl child	-	-	-	2	2	4
C H Muhammedkoya Scholarship	-	-	-	1	-	1
Fisheries	-	-	2	2	-	4
OBC	17	19	19	20	15	90
SC	30	22	16	20	26	114
OEC	13	12	12	13	18	68
KPCR	31	33	29	29	34	156
SEBC	9	11	11	8	8	47
FC	5	2	3	8	8	26
ST	-	-	-	1	1	2
Total No of Students	105	99	92	104	112	512
Total Amount	Rs. 2820995/- (Twenty Eight Lakhs Twenty Thousand Nine Hundred and Ninety Five Only.)					

Note: KPCR- Kumara Pillai Commission Report

SEBC- Socially and Economically Backward Communities.

FC - Fees Concession.

33. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Programme	Name of Expert	Date
Invited Talk	Dr. C.T. Aravindakumar	22/02/2012
Invited Talk	Dr. R Selvam	19/02/2015
Invited Talk	Dr. Jude Emmanuel	17/09/2015
Invited Talk	Dr. Ajith Prabhu	12/11/2015
Invited Talk	Dr. Rajesh Reghunath	26/11/2015

34. Teaching methods adopted to improve student learning

- Lectures with practical orientation
- Regular display of new information and research news in Department Notice Boards
- Seminars by students & group discussion of selected topics on every last Friday of the month.
- Visits to IVF Centres every year for PG students as part of their syllabus
- Conduct study tours & regular lab visits for familiarizing the students with syllabus related topics
- Organize exhibitions by students under faculty's supervision
- Providing internet facilities for students.
- Lecture classes are supported by videos and Smart Board.

35. Participation in Institutional Social Responsibility (ISR) and extension activities

- A socio-economic survey on the morbidity trends in lower Kuttanadu area was conducted.
- The findings of the survey would help the students to practice a much more healthy way of life
- Conducted health survey in Pallathuruthy region with reference to water pollution
- Conducted health survey in Kainakary area during November 2015
- Active participation in Annam Sanatanam Scheme of the College
- Zoological exhibition ZOOM 2015 & ZOOM 2016 for school and college students was held, thereby creating an awareness about taxonomy, conservation and ecosystem management

36. SWOC analysis of the department and future plans

SWOC analysis

Strengths
<ul style="list-style-type: none"> • Qualified and competent regular faculty with specializations in various biological fields. • Talented and devoted students. • Research department with ample facilities • Department with well equipped UG and PG laboratory and recognized research centre • Science club activities are co-ordinated by this department. • An audio-visual Smart Class Room with a capacity of 45 students. • Our library has more than 1650 books and about 10 journals. • Museum of the department has an immense collection of specimens including whale bones, entire horse and human skeleton, stuffed items and an aquarium of ornamental fishes.
Weaknesses
<ul style="list-style-type: none"> • Wide gap in the capability and income level of the students. • Majority are day scholars coming from long distance. • Poor communication skills in English and Student drop outs.
Opportunities
<ul style="list-style-type: none"> • Free training facilities for placements and encouragements for overall development of students. • Our department is a recognized research centre. Students continue as research scholars under our own faculty. • Students may join as project assistants in various projects run by this department sponsored by different agencies
Challenges

- Lack of time for the completion of curricular and co-curricular activities.
- Loss of classes due to unforeseen reasons, so teachers are constrained to take extra classes on holidays.
- In spite of our efforts, the academic and socio-economic backwardness of majority of students reflects in the results of the department.

(b) Future plans

- To make the department Centre of Excellence in Zoology.
- Efforts to retain the good academic performance in both UG and PG students
- To serve as a knowledge centre.
- To undertake research studies that benefits the society.
- Department is currently preparing a project mainly aimed at the mapping and conservation of biodiversity of Kuttanad thereby improving the socio economic status of Kuttanad.

P.G DEPARTMENT OF ECONOMICS AND RESEARCH CENTRE

1	Name of the Department	DEPARTMENT OF ECONOMICS AND RESEARCH CENTRE
2	Year of Establishment	1946
3	Names of Programmes/ Courses offered	B.A Economics M.A Economics PhD in Economics
4	Names of Interdisciplinary Courses and the Departments /units involved	An Open Course is offered in the fifth Semester for U.G. students of other Departments, which is “Human Resource Management” (Course code EC 1551.)
5	Annual/semester/choice based credit system (programme wise)	B.A. – Choice Based Credit and Semester System M.A. – Semester System
6	<p>Participation of the Department in the Courses offered by other Departments <u>Complementary Courses Offered by ther department.</u></p> <p>Department offers the following courses to students in History Department.</p> <ul style="list-style-type: none"> ○ EC 1131 “ Foundations of Economic Theory (Complimentary 1) ○ EC 1231 “ Money and Banking” (Complimentary 3) ○ EC 1331 “ Public Finance and Trade” (Complimentary 5) ○ EC 1431 “ Indian Economy Since Independence” (Complimentary 7) <p><u>Complementary Courses Offered from other departments</u> Complimentary subjects by the Department of History and Political Science (International Politics, History of Modern India, Public Administration I and II) are offered to UG students of the Department.</p> <p><u>Open courses</u> Open courses offered by other departments such as operations Research by Mathematics, Journalism by Malayalam, Translation Studies by English Department etc.</p> <p><u>Language courses</u> offered by English, Hindi, and Malayalam and Sankrit Departments.</p>	
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses /programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	--	--
Associate Professors	3	3
Assistant Professors	5	4

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./MPhil. Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. Of Ph.D. Students guided for the last 4 years
1	Sri. Asokan V.C	M.A, NET	Associate Professor & Head	Health Economics	21	-
2	Dr. Rajesh Kumar. S	M.A,NET, PhD	Associate Professor	Insurance Economics	21	-
3	Dr. Prabhakaran Nair V.R	MA, M.Phil, Ph.D	Assistant Professor	Financial Economics	10	02
4	Lt. Anupama. V	MA, M.Phil	Assistant Professor	Rural Economics	10	-
5	Dr. Jacob Chandy	MA, Ph.D	Assistant Professor	Environmental Economics	10	-
6	Smt. Jyothi Antherjanam	MA, NET	Assistant Professor	Environmental Economics	03	-

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	17	21	19	12	25
P.G.	05	08	04	Nil	02

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. (Core)	23:1	23:1	23:15	23:1	23:1
P.G.(Core)	5:1	5:1	5:1	5:1	5:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Sanctioned –Nil

Filled –Nil

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/ M.Phil/ P.G.

Number of present faculty members with highest degree		
Ph. D.	M. Phil.	M.A.
4	1	2

*Qualification of each faculty is given in item No.10 above.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

(a) National:

Sl. No	Name of the Project Holder	Funding Agency	Amount (Rs.)	Level of Completion
1.	Dr. Prabhakaran Nair V.R	UGC	75, 000/-	Completed in 2016
2	Lt. V. Anupama	UGC	85,000/-	Completed in 2016

(b) International: Nil

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc. and total grants received : NIL

18. Research Centre/ facility recognized by the University:

Year of Establishment	Affiliation details	Number of PhD Students enrolled	Facilities Available for Research
2015	Recognised Research Centre by University of Kerala as per order Ac.E1.A3/018050/2014 dated 07.07.2015	Waiting for Registration -3	<ul style="list-style-type: none"> • Research Scholar's Room • Chairs with Writing Pad-10 • Journals – 12 • Books – 1188 • Computers – 10 • Computer Tables – 10 • Printers – 4 • Wi- fi facility

19. Publications per faculty

Sl. No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
BOOKS/ EDITED BOOKS/ CHAPTERS IN BOOK				
1	Dr. S. Rajesh Kumar	Economic Planning in India, The Indian Economy Since 1991, Economic Reforms and Economic Performance	Article in edited Book	Pearson Education, New Delhi, 2 nd Edition
2	Dr. Prabhakaran Nair V.R	Financing Structure and Growth: A Study of Firms in the Indian Private Corporate Sector in Pradeep Agrawal (ed.), Reviving Growth in India”,	Chapter in Edited Book	Cambridge University Press, New Delhi, India, 2015
3	Dr. Prabhakaran Nair V.R	Dynamics of Resource Mobilisation and Investment in the Indian Private Corporate Sector in Binu Kumar. B.J (ed.), Indian Economic Development: Bottlenecks and Solutions,	Chapter in Edited Book	Post Graduate Department of Economics, NSS Hindu College, Chengannassery, Kerala.
4	Dr. Prabhakaran Nair V.R	Growth of Small-Scale Industries with reference to Post-Reform period: trends, Issues and Concerns, in Prakash B.A (ed.), Indian Economy since 1991: Economic Reforms and Economic Performance	Chapter in Edited Book	Pearson Education, Dorling Kindersley (India) Pvt. Ltd., India. 2012.
5	Dr. Prabhakaran Nair V.R	External Sector Reforms in India in Prakash B.A (ed.), Indian Economy Since 1991: Economic Reforms and Economic Performance	Chapter in Edited Book	Pearson Education, Dorling Kindersley (India) Pvt. Ltd., India. 2012.
6	Dr. Prabhakaran Nair V.R	Monetary and Credit Policy Reforms in India in Prakash B.A	Chapter in Edited	Pearson Education, Dorling Kindersley

	(ed.), Indian Economy since 1991: Economic Reforms and Economic Performance	Book	(India) Pvt. Ltd., India. 2012.
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JOURNAL ARTICLES

Sl No	Author & Co Authors	Article Title	Journal Title
1	Dr. Padmaja D. Namboodiri	Political Economy of Business Fluctuations: Contextualising the Indian Scenario	ISDA Journal : Vol.22 Jan-June 2012
2	Dr. Padmaja D. Namboodiri	Inter-Relation Between Sustainable Development, Gender and Environment: A Critical Appraisal.	ISDA Journal: Vol.23 Jan-March 2013
3	Dr. S. Rajesh Kumar	Distribution Channel dynamics of Indian Life insurance,	SS Research Journal Humanities & Business Studies ISSN2250-3900 Vol. VIII No2, Dec 2012.p53-64
4	Dr. Prabhakaran Nair V.R	Sources of Funds and Determinants of Capital Structure in the Indian Private Corporate Sector,	International Journal of Statistics and Finance, International science Press, 2012.
5	Dr. Prabhakaran Nair V.R	Financial Liberalization and Determinants of Investment: A Study of Indian Manufacturing Firms	MIBES Transactions, Vol. 5, Issue. 1, Spring 2011, Greece.

CONFERENCE PROCEEDINGS

Sl. No.	Author & Co Authors	Article Title	Proceeding Details
1	Dr. Prabhakaran Nair V.R	Financial structure and its Determinants in the post reform period: Case of Indian Firms	International Conference Proceedings, 6th International Business and Social Sciences Research Conference 3 – 4 January, 2013, Dubai, UAE, 2013.
2	Dr. Prabhakaran Nair V.R	Does financial liberalization reduce credit constraints: A study of firms in the Indian private corporate sector”	International Conference Proceedings, Published by Budapest Tech Keleti Károly Faculty of Economics, Budapest, Hungary. pp. 147-160, Dec. 2009

20. Areas of consultancy and income generated:

Sl. No	Details of Project/ activity	Type / Type of Consultancy	Name of the Faculty	Period	Beneficiary	Paid/ Free
1.	Training in statistical package for Social Sciences (SPSS)	Training	Dr. Prabhakaran Nair V.R	2011-till date	PG and Research scholars in various disciplines	Free

2.	Assistance in Questionnaire preparation, Sample Selection and data analysis	Expert Opinion	Dr. Prabhakaran Nair V.R	2011-till date	Research Scholars	Free
3	Consultant to Pallippad Panchayat	Expert Opinion	Dr. Rajeshkumar S.	2011-14	Panchayat	Free

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

National		
Faculty	Membership	Year
Dr. Padmaja D. Namboodiri	Member, Doctoral Committee for Economics Indian Institute of Space Centre & Technology Govt of India, Trivandrum.	2012 to till date
Dr. S. Rajesh Kumar	Member, Board of Studies in Economics, Kerala University	2014-2017
Dr. S. Rajesh Kumar	Chairman , Advisory Committee(Non-Statutory) Pallippad Panchayat	2013-14
Dr. S. Rajesh Kumar	Member , Taluk Library Council, Karthikapally	2013
Dr. Prabhakaran Nair V.R	Member, Indian Economic Association	2016

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme*
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies**

(i) U.G. Programme

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	-	-	-	100	100	100
(b)**	-	-	-	0	0	0

(ii) P.G. Programme

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	100	100	100	100	100	100
(b)**	0	0	0	0	0	0

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/ Award	Awarded by
2012	Dr. Prabhakaran Nair V.R	Faculty	Post Doctoral Research Award, 2012	UGC, New Delhi
2011 2012 2013	B A Toppers Aswathy.M Maheswari.M.Nair Ponnu Prakash	Final Year U.G. Students	Prof. L.C. Nair Memorial Endowment Prize (For B A Topper)	Family of Prof. L.C Nair (Former faculty)

2014	Archana.H & Defencia K Abraham			
2015	Greeshma Aron Veena.G			
2011	<u>M A Toppers</u> Fairooz	P.G. Students	Dr. K.P. Viswanatha Iyer Award	Instituted by Dr KPV Iyer (Former HOD)
2012	Saritha			
2013	Sneha Rose Sebastian			
2014	Sreemol			
2015	Vishnupriya Asokan			
2011	<u>B A Toppers</u> Aswathy.M	Students	Prof. N. Bhaskara Pillai Memorial Endowment Prize	Instituted by family of Prof. N Bhaskara Pillai (Alumni)
2012	Maheswari.M.Nair			
2013	Ponnu Prakash			
2014	Archana.H Defencia K Abraham			
2015	Greeshma Aron Veena.G			
2011	<u>M A Toppers</u> Fairooz	Students	Honoring First Class holders in MA Economics	Instituted by the former faculty Prof K. Gopinathan
2012	Saritha			
2013	Sneha Rose Sebastian			
2014	Sreemol			
2015	Vishnupriya Asokan			
2015	<u>BA toppers</u> Veena G Greeshma Aron <u>MA</u> Vishnupriya Asokan	Students	Prof. K. Sulabhan Nair Memorial Endowment	Former Student R. Kabeer (1985-88) Batch
2011	<u>Aswathy.M</u>	Student	Sri. Joseph Kora Memorial Endowment to the Topper in BA Economics	Management
2012	<u>Maheswari.M.Nair</u>	Student	Sri. Joseph Kora Memorial Endowment to the Topper in BA Economics	Management
2013	<u>Ponnu Prakash</u>	Student	Sri. Joseph Kora Memorial Endowment to the Topper in BA Economics	Management
2014	<u>Defencia K Abraham</u>	Student	Sri. Joseph Kora Memorial Endowment to the Topper in BA Economics	Management
2015	<u>Greeshma Aron</u> <u>Veena.G</u>	Students	Sri. Joseph Kora Memorial Endowment to the Topper in BA Economics	Management

24. List of eminent academicians and scientists/visitors to the department:

Name	Position	Occasion/ Purpose	Date of Visit
Dr. B.N. Ghosh	Emeritus Professor, Cyprus University	Invited Talk	18/02/2013
Ms. Gayathri Nair	Deputy Adviser, Planning	Invited talk on	25/07/2014

IES	Commission of India	Inflation Targeting	
Dr. Mary George	Member, Kerala State Public Expenditure Committee	UGC Sponsored national Seminar	28/10/2014
Dr. D. Narayana	Consultant, State Planning Board, Trivandrum	UGC Sponsored national Seminar	28/10/2014
Dr. R.A. Ramanathan	Emeritus professor, IIT, Mumbai	UGC Sponsored national Seminar	28/10/2014
K. M Chandrasekhar	Hon. Vice Chairman, Kerala State Planning Board	Inauguration of Research centre	22/15/2015

25. Seminars/ Conferences/ Workshops organized and the source of funding:

Programme	Topic/ Area	Dates	Funding Agency	Amount Received
Seminar	Reflections of Financial liberalisation on Indian Economy	28/10/2014	UGC, New Delhi	66,000
Invited talk	Financial Inclusion and Rural Poor	14-02-12	Own funding	5,000
Invited talk	“Art of Success”	27-6-2012	EOSA (Economics Old Students Assn)	5,000
Invited talk on Merit day	Globalisation and Labour Market Dynamics-the Indian Scenario	18-02-2013	Own funding	10,000
Invited talk	Inflation Targeting	25/07/2014	Own funding	10,000
Invited talk on Merit day	Role of Economics in Managerial Decision Making	11/2/14	Own funding	5,000
Invited talk on Merit day	Liberalisation and Economic Inequality	10-2-15	Own funding	5,000

26. Student profile programme/ course wise:

(a)U. G. Programme

Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	385	62	22	37	77.96
2012-13	378	59	31	35	52.38
2013-14	331	61	19	35	70.69
2014-15	319	62	25	38	64.15
2015-16	389	60	-	-	-

(b)P.G. Programme

			Enrolled		Pass %
			Male	Female	
2011-12	198	20	2	18	71.43
2012-13	219	18	2	17	70.00
2013-14	195	18	1	15	55.00
2014-15	243	20	2	11	50.00
2015-16	232	18	-	-	-

Rank Holders

- ❖ 1st Rank- Vishnupriya Asokan, M.A. Economics 2015, University of Kerala
- ❖ 3rd Rank –Celestine , M.A. Economics 2015, University of Kerala
- ❖ 3rd Rank- Sneha Rose Sebastian-M.A. Economics 2013, University of Kerala

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	% of students from Abroad
2011-12	U. G.	100	--	--
	P.G	100	--	--
2012-13	U.G.	100	--	--
	PG	100	--	--
2013-14	U.G.	100	--	--
	P.G.	100	--	--
2014-15	U.G.	100	--	--
	P.G.	100	--	--
2015-16	U.G.	100	--	--
	P.G.	100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc.?-

No. of students qualified NET in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
1	1	1	-	2

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. to P.G.	5	3	4	6	-
PG to M.Phil.	2	1	1	2	-
P.G. to Ph.D.	-	1	2	-	-
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed:					
Campus Selection	-	1	3	-	-
Other than Campus recruitment	18	9	21	13	-

30. Details of Infrastructural facilities

Library	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs in the Dept.
Department Library Books- 498 Journals -12	Broadband internet facility for staff and students	One	10
<ul style="list-style-type: none"> • Research Scholar's Room • Chairs with Writing Pad- 10 • Journals – 12 • Books – 1188(Available in General Library) • Printers – 4 			

<ul style="list-style-type: none"> • Almirahs-3 • Over Head Projector-1 • Laptops-2 • L.C.D. Projectors-2 • Computer Tables • Water Purifier 			
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31. Number of students receiving financial assistance from college, university, government or other agencies.

Name/Category	2011-12	2012-13	2013-14	2014-15	2015-16	Total
Central Sector	-	-	2	-	-	2
C.H.. Muhammedkoya scholarship	-	-	-	2	-	2
Higher education Scholarship	-	-	-	1	-	1
Kerala Building Welfare Board	-	-	-	1	1	2
Kerala Coir Welfare Scholarship	-	-	-	2	2	4
KSFCWC Scholarship	-	-	-	3	3	6
OBC	35	29	32	26	33	155
SC	32	34	30	31	34	161
OEC	20	20	17	22	16	95
KPCR	57	59	56	56	59	287
SEBC	12	13	13	10	11	59
FC	10	10	4	7	6	37
ST	2	2	3	1	2	10
Total No. of Students	168	167	157	162	167	821
Total Amount	Rs. 36, 96, 939/- (Thirty Six Lakhs Ninety Six Thousand Nine Hundred and Thirty Nine Only.)					

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Programme	Name of External Expert	Dates
Induction Programme for first year PG	Prof. Sukumara Menon, Former Faculty IIMK.	14-9- 2014
Induction Programme for first year UG	Prof P Janardhanan Pillai, Retd. Professor of Economics	26-7-2015
Induction Programme for first year PG	Prof. P M Balakrishna Pillai	26/8/ 2015
Invited Talk	Dr. B.N. Ghosh, Emeritus Professor, Cyprus University.	18/02/2013
Invited talk on Inflation Targeting	Ms. Gayathri Nair IES, Deputy Adviser, Planning Commission, Govt. of India.	25/07/2014
UGC Sponsored National Seminar	Dr. Mary George, Former HOD of Economics, University Collage.	28/10/2014
UGC Sponsored National Seminar	Dr. D. Narayana, Former	28/10/2014

	Professor CDS, Thiruvananthapuram.	
UGC Sponsored National Seminar	Dr. R.A. Ramanathan, IIT Mumbai	28/10/2014
Inauguration of Research Centre	K. M Chandrasekhar, Hon.Vice- Chairman, Kerala State Planning Board.	22/12/2015

33. Teaching methods adopted to improve student learning

- Participatory Learning through socio-economic surveys and visits to economically important locations.
- Remedial Classes and mentoring.
- Effective tutorial system.
- Peer teaching among students.
- Group Discussions, integrative learning and self evaluation.

34. Participation in Institutional Social Responsibility (ISR) and extension activities

- Conduction of socio-economic surveys of coastal folks. Campaign among themselves in the light of survey findings. .
- Students voluntarily collect funds from various stake holders of the college and donate the same to the poor and vulnerable sections of the society by calamities.
- Students actively participate in the ANNAM SANATANAM programme of the college in which provides lunch packets to the poor inpatients of nearby hospitals.
- The class rooms and Department premises are maintained by the students at periodic intervals.

35. WOC analysis of the department and future plans

(a) SWOC analysis

Strengths
<ul style="list-style-type: none"> • A prolific library with internet facility. • Experienced and Qualified faculty. • Above the average infrastructure facility including broadband connectivity. • The only research centre for Economics affiliated to University of Kerala in Alappuzha District. • Working culture endowed with collective responsibility, decentralisation and congenial relationship. • Effective tutorial system and parental support. • Good student teacher relationship that enriches the learning environment.
Weaknesses
<ul style="list-style-type: none"> • Low language proficiency of students as majority of them hails from socio-economically backward areas. • Contribution of Alumni in the Academic and infrastructural development of the Department is yet to tap. • Institutional flexibility in curriculum is limited as it is fixed by the affiliated university. • A good number of the students are studying traditional courses out of compulsion and so the interest to pursue higher learning is very low among them. • A majority of students are first generation learners that makes teaching more challenging.

Opportunities

- The average age of the faculty is 40, which acts as the blend of experience and youthfulness.
- Newly opened Research Centre opens new vistas in the arena of creation of knowledge.
- The potential of the Alumni can be utilised more fully for further development of the department.
- The availability of eminent resource persons in the subject within the state provides ample opportunities to conduct various academic programmes.

Challenges

- The intensifying social stigma and approach in favour of professional courses.
- The gross work load as a measure of total output (Research and Teaching), has been steadily growing in recent years which affects the per head attention upon students.

(b) Future plans

- Teaching learning process to be integrated with the aspects of health, poverty alleviation, ageing, social and ethical values etc to make the students more socially responsible which would finally help national development.
- Latest technologies like web education, internet, video conference is to be fully utilized
- Plan to organise an International conference on 'Emerging Macro Economic Issues'.
- Organise Yearly work shop on "Research Methodology for Research scholars". Proposal has been already submitted.
- Convene career workshops to impart vocational bend to the courses.

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

1	Name of the Department	DEPARTMENT OF HISTORY AND POLITICAL SCIENCE
2	Year of Establishment	1968
3	Names of Programmes/ Courses offered	B.A. History
4	Names of Interdisciplinary Courses and the Departments/ units involved	An Open Course (History of Human Rights Movements) is offered in the fifth Semester for U.G. students of other Departments.
5	Annual/semester/choice based credit system (programme wise)	B.A- CBCSS
6	Participation of the Department in the Courses offered by other Departments <u>Complementary Courses Offered to other Departments</u> Modern World History is taught to English (UG) Students. Complementary course, Indian History is taught to Economics (UG) Students. <u>Complementary Courses Offered from other Departments</u> General Economics handled by Economics Department is offered to our U.G. Students. <u>Open Course</u> History of Human Rights Movements is offered to 5 th semester UG Students of other Departments.	
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses /programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	4	4
Assistant Professors	-	-

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./MPhil.Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr. R. Rajalekshmy	M.A, M.Phil, Ph.D	Associate Professor	Temple studies	28	--
2	Dr. S. Umadevi	M.A, Ph.D	Associate Professor	Election Studies	23.8	5
3	Dr.S. Jeyakumar	M.A, M.Phil, Ph.D	Associate Professor	Urban Studies	20.5	1
4	Dr. M. P. Ajithkumar	M.A, M.Phil, Ph.D	Associate Professor	Indian Culture and Thoughts	20	5

11. List of senior visiting faculty : NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	27:1	24:1	23:1	23:1	24:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.: NIL

15. Qualifications of teaching faculty with DSc/D. Litt/ Ph. D/ M. Phil/ P.G.

Number of present faculty members with highest degree		
Ph. D.	M. Phil.	M.A.
4	3	-

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

National: 2

Sl. No	Name of the Project Holder		Funding Agency	Amount (Rs.)	Level of Completion
1.	Dr. R.Rajalekshmy	Philosophical foundations of the precepts of Chattambi Swamikal	UGC	1,00,000/-	To be completed in Jan 31, 2017
2.	Dr. S. Jeyakumar	Urbanization and Industrial Development in the city of Madurai (1850-1947) 10 Dec.2014 (Project Commenced from 1 st Feb. 2015	UGC	1,60,000/-	To be completed in Jan 31, 2017

International: Nil

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc. and total grants received : NIL

18. Research Centre/facility recognized by the University : NIL

19. Publications per faculty

BOOKS/EDITED BOOKS/CHAPTERS IN BOOK

Sl. No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1	Dr. S.Jeyakumar	Contributed a Chapter – Industrialization and Urbanization in the Colonial City of Chennai (1871-1947)	Research Book	Meena Publication New Delhi 2016.
2	Dr. MP.Ajith Kumar	Vedic India – A History	Research Book	Gyan Books, New Delhi,2012
3	Dr. S. Umadevi	Green Governance and Human Rights Book by P.K.Rajagopal(ed) Chapter –titled Water Pollution- A Challenge to Right to Environment in Kuttanad	Chapter in Book	ISBN9788178359793 2013

JOURNAL ARTICLES

Sl No	Author & Co Authors	Article Title	Journal Title
1	Dr. S.Jeyakumar	Resistance against Domination: Upper Cloth Revolt in South Travancore	International Journal of Social Science and Humanities Vol. I, Issue 1, pp. 32-38, March-Aug. 2014
2	Dr. M.P. Ajith kumar	Women in Vedic Times’,	Journal of Indian History, University of Kerala, December 2011
3	Dr. M.P. Ajith kumar	‘Cosmology in Ancient India’	Quarterly Journal of the Mythic Society December 2012.
4	Dr. M.P. Ajith kumar	‘Francis Xavier and Goa Inquisition’	Quarterly Journal of the Mythic Society. December 2013
5	Dr. M.P. Ajith kumar	‘Science and Swami Vivekananda’,	Vivekanandanum Prabuddha Keralavum, Vivekananda Kendra, Kanyakumari, 2013.
6	Dr. M.P. Ajith kumar	‘Punnapra-Vayalar Revolt’	Quarterly Journal of the Mythic Society March 2014.
7	Dr. M.P. Ajith kumar	Ideal of Kingship in Ancient India	Journal of the Institute of Distance Education, University of Kerala, May 2014.
8	Dr. M.P. Ajith kumar	Swami Vivekananda’s Views on Cates and Hindu Unity,	Quarterly Journal of the Mythic Society. July-September, 2014
9	Dr. M.P. Ajith kumar	Painting of Lepakshi-Kiratarjuniya Scene	Quarterly Journal of the Mythic Society.Oct- Dec, 2015
10	Dr. S.Uma devi	HumanRights Violations on Indigenous Groups;Kannur District –A Case Study	ISDA Journal 20(2&3)2011 Pp,139-148 ISSN0971-2550
11	Dr. S.Uma devi	Manusmriti on Human rights and duties	Bhavan’s Journal Bharatiya Vidya bhavan Vol.58No.3 sept.15th 2011
12	Dr. S.Uma devi	Modern Democratic values in Indian Political Philosophy- Manu ,Kautilya and Swami Vivekananda-an Overview	Indian Journal of Political science IPSA Vol.LXXVI,No.2:April-June,2015
13	Dr. S.Uma devi	BhaviBharatam-Vivekananda Darsanangalilude	Vijnanakairali- Kerala Bhasha Insitute Nov.5-2013 Vol.44,L.11
14	Dr. S.Uma devi	Humanism in Indian Philosophy-Contribution of Swami vivekananda and Deendayal Upadhyaya-an analysis	Indian Journal of Political science IPSA, Vol.LXXVI,No.3 July-Sept. 2015

Popular Publications(Magazines, News Papers etc..)				
1	Dr. M.P. Ajithkumar	'Secret of Existence',	The Sunday Pioneer, Delhi	29 December 2013
2	Dr. M.P. Ajithkumar	'India's Religion of Humanity',	The Pioneer, Delhi	15 August 2014.
3	Dr. M.P. Ajithkumar	Putrid mix of politics and academics	The Pioneer, Delhi	29 July 2014
4	Dr. M.P. Ajithkumar	SNDP's Hindu Identity – Fully in line with the Principles of the Guru	The New Indian Express Kochi	18 November 2015
5	Dr. M.P. Ajithkumar	Narisankalpam narendrabharathathil (Malayalam)	Kesari, Kozhikode	17 March 2013
6	Dr. M.P. Ajithkumar	Ten Communist Treacheries	www.haindavakeralam.com	5 November 2015
7	Dr. M.P. Ajithkumar	Indian art and Aesthetics	www.haindavakeralam.com	28 April 2014
8	M.P. Ajithkumar	Hindu Cosmology	www.haindavakeralam.com	8 July 2012
9	Dr. M.P. Ajithkumar	Darsanam kavithayayal	Kesari, Kozhikode	30 October 2015
10	Dr. M.P. Ajithkumar	Mahavispotanattinte darsanam (Malayalam)	Kesari, Kozhikode	24 April 2011
11	Dr. M.P. Ajithkumar	Kshetradvamsanathinte putiya atavukal (Malayalam)	Kesari, Kozhikode	1 August 2014
12	Dr. M.P. Ajithkumar	Haindavasamajaththinoru mochanamantram (Malayalam)	Kesari, Kozhikode	3 January 2014
13	Dr. M.P. Ajithkumar	Gandhiji entukontu vintum kollappetunnu (Malayalam)	Kesari, Kozhikode	10 October 2014
14	Dr. M.P. Ajithkumar	Indian Culture and Integral Humanism	www.haindavakeralam.com	8. April 2015
15	Dr. S.Umadevi	"Gitaye enthukondu deseeyagranda hamakkikooda"?	JANMABHUMI (daily)	Jan.8,2015
16	Dr. S.Umadevi	"Bharatiya Srituam, Swami Vivekananda darsanangalil"	KSHETRA SHAKTI (mal) Magazine	May- June, June- July, Vol -5, Issue-5,6
17	Dr. S.Umadevi	'Swami Vivekananda to Youth'	Smritipath- College NCC diamond jubilee souvenir	2014-2015
18	Dr. S.Umadevi	'Women in Indian Culture'	Silver Jubilee souvenir Kerala Brahmana sabha	2015
19	Dr. S.Umadevi	'Integral Vision for Inclusive Growth'	Organiser (national weekly)	Vol.67 no.16,Oct.

				18,2015
20	Dr. S.Umadevi	'Self-regulatory discipline in the Economy'	Organiser(national weekly)	Vol.67 No.17 Oct. 25,2015
21	Dr. S.Umadevi	'We have Lost the Foresight '	Organiser(national weekly)	Vol. 67 No.18 Nov.1,2015
22	Dr. S.Umadevi	'Dharma of society'	Organiser(national weekly)	Vol. 67 No. 19 Nov.8 ,2015

20. Areas of consultancy and income generated : NIL

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

Faculty	Membership	Year
Dr. R.Rajalekshmy	South Indian History Congress	Life Member
	Association of Third World Studies	Life Member
	Institute of Historical studies, Calcutta	Life Member
	Kerala Council for Historical Research	Life Member
Dr. S.Umadevi	Indian Political Science Association(IPSA)	Life member
Dr. S. Jeyakumar	P.G. Board of Studies, SreeSankara University, Kalady	Member2008 -2012
Dr. S. Jeyakumar	Board of Studies in History (Pass), University of Kerala.	Member Since 2011.
Dr. S. Jeyakumar	Board of Studies in History (Pass), Mar Ivanios College(Autonomous)	Member since 2015

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme*
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies**

(i) U.G. Programme

	Final Year of the Programme					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	100	100	100	100	100	100
(b)**	-	-	-	-	-	-

(ii) P.G. Programme

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
(a)*						
(b)**						

23. Awards/ recognitions received by faculty and students

Year	Name	Student/ Faculty	Recognition/ Award	Awarded by
2012-13	Aneeshmon. A	1 st in power lifting	Kerala State Meet	Kerala State Power Lifting

				Association
2012-13	Aneeshmon. A	1 st in Power lifting	University Meet	University of Kerala
2012-13	Xavier Mathew	Gold Medal in Canoeing	Inter colligate Meet	University of Kerala
2012-13	Pramod. M	Gold in Canoeing	Inter colligate Meet	University of Kerala
2012-13	Aneena Mohan	Power lifting Champion	University Meet	University of Kerala
2012-13	Unnikrishnan. S	First place in Drama	University Youth Festival	University of Kerala
2012-13	Vidhumol. R	First place in Drama	University Youth Festival	University of Kerala
2013-14	Aneeshmon.A	1 st in Weightlifting,	Kerala State Meet	Kerala State Power Lifting Association

24. List of eminent academicians and scientists/visitors to the department:

M.G. Sasibhushan	Malayalam Professor, Scholar and Orator	Merit Day 2011-12	13-7-11
T.P.Srinivasan	Former Diplomat-IFS	Celebration of Youth Day	13-1-12
Prof. Sankaran Raveendran	Professor of English, Uty of Calicut	Inauguration of History Association	14-2-12
Dr. Aju Narayanan	Assistant Prof. In Malayalam, UC College, Aluva	Inauguration of History Association	13-1-13
Dr. Ciriack Thomas	Politics Prof, Former VC in MG University	Celebration of Youth Day	14-3-13
Allepey Ashraf	Veteran Film actor and director and member of Alumni Association	Inauguration of History Association	20-2-14
Smt. Lekshmi Kumari	Scholar and Orator, Former Chair person Vivekananda Kendram. Kanyakumari	Celebration of Youth Day	29-1-14
Biju E. Paul	Journalist	Talk on Human Rights	22-9-14
Adv.G.Balagopal	Former Chief of Fingerprint Bureau	Human Rights Session	27-9-14
Retd. Justice K.T Thomas	Former Judge, Supreme Court of India	Session on Human Rights	29-10-14
T.R Somasekharan	Scholar and Orator	Talk on –Matter, Mind and Consciousness	27-1-15
Dr. Gopikrishnan	Assistant Prof. in History, NSS Hindu College, Changanacherry	Inauguration of History Association	3-3-15
Prof. Tony Mathew	Malayalam Professor, Scholar and Orator	Celebration of Youth Day	5-2-16
Dr. T.S. Gireeshkumar	Prof. Of Philosophy, MS Uty, Baroda	Inauguration of History Association	10-3-16

Dr E.N Sivadas	Associate Prof. Of Politics, SN College, Cherthala, Scholar and writer	Session on Human Rights	16-3-16
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25. Seminars/Conferences/Workshops organized and the source of funding: NIL

26. Student profile programme/course wise:

(a)U. G. Programme

Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	174	48	13	23	65.10
2012-13	189	47	20	28	59
2013-14	221	47	18	30	79
2014-15	263	47	19	38	82.5
2015-16	247	51	-	-	-

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	%of students from Abroad
2011-12	U. G.	99.27	0.72	--
2012-13	U.G.	100	0	--
2013-14	U.G.	100	0	--
2014-15	U.G.	100	0	--
2015-16	U.G.	100	0	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc.?- : Nil

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. to P.G.	3	5	4	5	-
PG to M.Phil.	--	--	--	-	--
P.G. to Ph.D.	--	--	--	--	--
Ph.D. to Post-Doctoral	--	--	--	--	--
Employed:					
Campus Selection	--	--	--	--	--
Other than Campus recruitment	8	7	6	6	--

30. Details of Infrastructural facilities

Library	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs in the Dept.
Department Library is part of General Library	Available	-	1

31. Number of students receiving financial assistance from college, university, government or other agencies.

Name/Category	2011-12	2012-13	2013-14	2014-15	2015-16	Total
OBC	20	16	17	16	20	89
SC	26	23	23	23	19	114
OEC	14	12	10	11	10	57
KPCR	46	41	43	38	41	209
SEBC	-	-	-	-	-	-

FC	-	-	-	-	-	-
ST	-	2	2	3	1	8
Total No. of Students	106	94	95	91	91	477
Total Amount	Rs.2243493/- (Twenty Two Lakhs Forty Three Thousand Four Hundred and Ninety Three Only.)					

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

M.G. Sasibhushan	Malayalam Professor, Scholar and Orator	Special Lecture on Merit Day 2011-12	13-7-11
T.P.Srinivasan	Former Diplomat-IFS	Special Lecture on Celebration of Youth Day	13-1-12
Prof. Sankaran Raveendran	Professor of English, Uty of Calicut	Inaugural Talk- History Association	14-2-12
Dr. Aju Narayanan	Assistant Prof. In Malayalam, UC College, Aluva	Inaugural Talk History Association	13-1-13
Dr. Ciriack Thomas	Politics Prof, Former VC in MG University	Special Lecture on Celebration of Youth Day	14-3-13
Allepey Ashraf	Veteran Film actor and director and member of Alumni Association	Inaugural Talk History Association	20-2-14
Smt. Lekshmi Kumari	Scholar and Orator, Former Chair person Vivekananda Kendram. Kanyakumari	Celebration of Youth Day	29-1-14
Biju E. Paul	Journalist	Special Lecture on Human Rights	22-9-14
Adv.G.Balagopal	Former Chief of Fingerprint Bureau	Special Lecture on Human Rights	27-9-14
Retd. Justice K.T Thomas	Former Judge, Supreme Court of India	Invited Talk on Human Rights	29-10-14
T.R Somasekharan	Scholar and Orator	Talk on –Matter, Mind and Consciousness	27-1-15
Dr. Gopikrishnan	Assistant Prof. in History, NSS Hindu College, Changanacherry	Inaugural Talk- History Association	3-3-15
Prof. Tony Mathew	Malayalam Professor, Scholar and Orator	Special Lecture on Celebration of Youth Day	5-2-16
Dr. T.S. Gireeshkumar	Prof. Of Philosophy, MS Uty, Baroda	Inaugural Talk- History Association	10-3-16
Dr E.N Sivasdas	Associate Prof. Of Politics, SN College, Cherthala, Scholar and writer	Special Lecture on Human Rights	16-3-16

33. Teaching methods adopted to improve student learning

<ul style="list-style-type: none"> • Lectures supported by videos and slides • Group discussions on selected topics

- Adopting Internet facilities particularly for assignments and projects
- Conducting study tours

34. Participation in Institutional Social Responsibility (ISR) and extension activities

- Two of the faculty members, Dr.S.Umadevi and Dr.M.P. Ajithkumar have extension activities on their individual level in the form of conducting lectures on Indian culture.
- Dr.M.P.Ajithkumar is member of the governing body of Sri Ramakrishna Asramam, Alappuzha.
- Dr.S.Umadevi is associated with the running of a Balika Sadanam in Alappuzha and also the Residents' Association

35. SWOC analysis of the department and future plans

(a) SWOC analysis

Strengths

- Though the smallest UG Department, all faculty members are equipped with research degrees.
- Two of them are Research guides with five Research scholars each.
- The Antiquarian and the Human Rights Club functioning under the department conducts regular lectures and invited talks by very eminent scholars.

Weaknesses

- Absence of PG Course
- Shortage of funding for furthering academic and research activities.
- Shortage of books in library due to lack of funds
- Loss of working hours due to socio-political factors
- Students with low communicative skills in English

Opportunities

- Opening of PG Course would be an opportunity for attracting better students who are goal oriented (No other College in the district offers PG Course in History)
- To use the strength of the base of the Alumni Association

Challenges

- Inability to keep up with the university calendar.
- Declining interest among students towards History in the tide of better students opting Professional Courses
- To establish linkages with academic and cultural institutions

(b) Future plans

- Starting PG Course
- Conducting two National seminars in 2016-17 with UGC and ICHR funds.
- Conducting add-on course in Indian Culture and Philosophy
- Establishing Vivekananda Chair
- Conducting extension activities in collaboration with Sri Ramakrishna Free Medical Society, Alappuzha

P.G DEPARTMENT OF COMMERCE AND RESEARCH CENTRE

1	Name of the Department	P.G DEPARTMENT OF COMMERCE AND RESEARCH CENTRE
2	Year of Establishment	1946
3	Names of Programmes/ Courses offered	<ul style="list-style-type: none"> • B.Com • M.Com. • Ph.D. in Commerce
4	Names of Interdisciplinary Courses and the Departments/units involved	An Open Course 'Fundamentals of Accounting' is offered in the fifth Semester for U.G. students of other departments.
5	Annual/semester/choice based credit system (programme wise)	B.Com–Choice Based Credit and Semester System M.Com–Semester System PhD –Course work
6	Participation of the Department in the Courses offered by other Departments	<ul style="list-style-type: none"> • As part of the curriculum, the students (Sem 1 to Sem 4) have to learn the basics and advanced courses of English and one second language (Hindi or Malayalam). The subjects are taught by faculty of the respective departments. • Open courses by other departments are offered to the 5th Semester U.G. students of our Department.
7	Courses in collaboration with other Universities, industries, foreign institutions	Nil
8	Details of courses /programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	6	6
Assistant Professors	7	7

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./MPhil. Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students guided for the last 4 years
1	Smt. K. Remadevi	M.Com; M.Phil	Associate Professor	Finance Taxation	30	--
2	Dr. S. Nataraja Iyer	M. Com. Ph.D. PGDAM, MBA	Principal	Finance derivatives	30	5
3	Dr. Jubily Navaprabha	M.Com; M.Phil; Ph.D.;MBA;MA; MWS;M.Sc; (Appl.Psychology); PGDGC	Associate Professor & HOD	Finance Marketing	30	7
4	Major (Dr.) R. Unnikrishnan	M.Com; M.Phil; Ph.D.	Associate Professor	Finance	30	--

5	Dr. T.R. Anilkumar	M.Com; M.Phil; Ph.D.; MBA	Associate Professor	Finance	28	4
6	Captain (Dr.) K.R. Assalatha	M.Com; M. Phil; Ph.D.; MSc. (Appl. Psychology)	Associate Professor	Finance	26	--
7	Shri. Krishnan M.	M.Com; MBA	Assistant Professor	Finance	4	--
8	Shri. Vineeth Chandra K.S.	M.Com; B. Ed; MBA; M. Phil	Assistant Professor	Finance Marketing	3	--
9	Shri. Prasanth S. Pai	M.Com; MBA	Assistant Professor	Finance	3	--
10	Smt. Priya R.	M.Com; CA (Inter); MFM	Assistant Professor	Finance	3	--
11	Smt. Sreelakshmi	M.Com	Assistant Professor	Finance	1	--
12	Smt. Aswathy S.	M.Com	Assistant Professor	Finance	1	--
13	Shri. Damu Chandran C.	M.Com	Assistant Professor	Finance	2 months	---

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NIL

13. Student-Teacher ratio (programme wise):

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G.	27:1	31:1	32:1	33:1	32:1
P.G.	2:1	2:1	2:1	2:1	2:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Sanctioned –Nil; Filled –Nil

15. Qualifications of teaching faculty with DSc/ D. Litt/ Ph. D/ M. Phil/ P.G.

Number of present faculty members with highest degree		
Ph.D.	M.Phil.	M.Com
5	2	5
*Qualification of each faculty is given in item No.10 above.		

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received.

Ongoing projects

(a) National:				
Sl. No	Name of the Project Holder	Funding Agency	Amount (Rs)	Level of Completion/ Year
1.	Shri. Prasanth S. Pai	UGC	1,30,000	Ongoing
2.	Shri. Vineeth Chandra K.S	UGC	70,000	Ongoing
3.	Smt. Priya R.	UGC	1,60,000	Ongoing
4.	Shri. Krishnan. M	UGC	45,000	Ongoing
5.	Dr. Jubily Navaprabha	UGC	70,000	Ongoing

Projects Completed

Sl.	Name of the Project Holder	Funding Agency	Amount	Level of Completion/
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No			(Rs)	Year
1.	Dr. Jubily Navaprabha	UGC	70,000/-	Completed 2013
2.	Dr. L. Ushakumari	UGC	3,11,028/-	Completed (2014)

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc and total grants received : Nil

18. Research Centre/facility recognized by the University:

Year of Establishment	Affiliation details	Number of PhD Students enrolled	Facilities Available for Research
2012	Recognised Research Centre by University of Kerala as per order No. Ac. E1. A/031217/2011 dated 1.08.2012	23	<ul style="list-style-type: none"> • Room for research scholars • Journals – Management Accountant, Yojana, Management Researcher • Books – Books on marketing, finance, research etc. • Computers – 4 • Wi-fi facility.

19. Publications per faculty

BOOKS/ EDITED BOOKS /CHAPTERS IN BOOK

Sl. No	Author	Title of the Book	Type of the book	Publisher, Place & Year, ISBN No.
1.	Dr. Jubily Navaprabha	Marketing Management	Co-authored Book	Chand Books, 2011-2015, Thiruvananthapuram
2.	Dr. Jubily Navaprabha	Gender Economics- A collection of selected papers	Chapter in the book	PG Dept. Of Commerce, Panampilly Memorial, Govt.College,Chalakkudy,2015 – ISBN -978-93-81888-75-9
3.	Dr. Jubily Navaprabha	Banking Theory And Practice	Co-authored Book	Chand Books, 2015, Thiruvananthapuram
4.	Dr. Jubily Navaprabha	Recent Trends in Corporate Governance	A collection of Selected Papers (Co-authored)	P.G Dept. of Commerce & Research Centre, Sanatana Dharma College, Alappuzha. 2015,October ISBN-978-93-5254-0181-1
5.	Dr. R. Unnikrishnan	Management Information System,	Text Book	Kalyani Publishers, NewDelhi,201
6	Dr. R. Unnikrishnan	Cadets Guide	Text Book	Text Book for NCC cadets for “B” and “C” Certificate examination
7	Dr. R. Unnikrishnan	E – Business & Cyber law	Text Book	National Publications 2016
8	K.R. Assalatha	Management Information System,	Text Book	Kalyani Publishers, NewDelhi,201

9	K.R. Assalatha	Cadets Guide	Text Book	Text Book for NCC cadets for "B" and "C" certificate examination
10	K.R. Assalatha	E – Business & Cyber law	Text Book	National Publications 2016
11	Anilkumar	Financial accounting	Text Book	Lily Publications Changanassery
12	Vineeth Chandra K.S.	Trends and Issues in MICE tourism	Co- Authored Book Tourism Trends and strategies	Sonaly Publications, NewDelhi, 2011, ISBN: 978-81-8411-370-9
13	Vineeth Chandra K.S.	Role of KSFE Ltd. Financial Empowerment in Rural Areas	Co- Authored Book Microfinance and financial inclusion	Soanally Publications, New Delhi, 2014, ISBN No. 978-81-8411-497-3
14	Vineeth Chandra K.S.	Forensic Accounting and Corporate Governance	Edited book on Recent Trends in corporate Governance	PG Dept of Commerce and Research Centre, SD College, Alappuzha, ISBN No. 978-93-5254-018-1
15	Prasanth S. Pai	E – Auction: With reference to Indian Tea Industry	Type: Chapter in the Book titled Rural E-Commerce in India	Govt. Arts College publication, Trivandrum,2012, ISBN – 978-93-5104-594-6
16	Shri. R. GeethakrishnaPai	Income Tax Law & Practice VAT – Concepts & Practice	Book	Lilly Publishing House Changanassery (till 2015)
17	Dr. A. Subramaniyan	Corporate Regulation and Governance	Book	Thankom Publication Alappuzha2012
18	Dr. A. Subramaniyan	Principles of Management	Book	Thankom Publication Alappuzha2012
19	Dr. L Usha Kumari	Financial Inclusion and Inclusive Growth. Financial Inclusion without Financial Literacy Does More Harm than Good.	Edited Book	Reference Press, New Delhi, 2012,

JOURNAL ARTICLES

Sl No	Article Title	Author/Co-authors	Journal Title/Details	Year
1	Dr. S. Nataraja Iyer	Need for selective privatization incentral	COMMERCE AND BUSINESS	5 (1&2) 64-75

		public sector undertaking	RESEARCHER	2012
2	Dr. S. Nataraja Iyer	Impact of efficiency measures in central public sector undertaking	SOUTHERN ECONOMIST	51 (22) 31-35 2013
3	Dr. Jubily Navaprabha	Swot analysis of Women Coir worker's SHGs in Alappuzha	Indian Commerce Bulletin	Vol.11, no2, June2011 ISSN0972-6187
4	Dr. Jubily Navaprabha	Mental Health status of Women Coir workers in Alappuzha	REYNO	Vol.2, issue 1, Jan.2013 ISSN2277-7652
5	Dr. Jubily Navaprabha	Reasons for the in-migrant workers in Kerala	Indian Commerce Bulletin	Vol.13, no-1&11, Dec.2013 ISSN0972-6187
6	Dr. Jubily Navaprabha	Planning Tools for Promoting Managerial Abilities in Social Marketing to Improve Public Outcomes	Management Innovator	Vol.7, no1, Jan 2014 ISSN0974-6749
7	Dr. Jubily Navaprabha	Women Entrepreneurship: A venture for self employment in Alappuzha	REYNO	Vol.3, issue 1, Jan.2014 ISSN2277-7652
8	Dr. Jubily Navaprabha	Economic conditions of in-migrant workers in Kerala-special reference to Alappuzha District	Management Researcher	Vol.20, no.4, April-June 2014 ISSN2230-8431
9	Dr. Jubily Navaprabha	MSMEs Women Entrepreneurs-Some Problems.	Indian Commerce Bulletin	Vol. XVI: No. 1 & 2 Dec:2014 ISSN0972-6187
10	Dr. Jubily Navaprabha	HRM practices in ITes - BPO industry in Kerala-Issues & Challenges	International journal of Management	Vol.3, no.1, Jan2015 -ISSN2321-6700
11	Dr. Jubily Navaprabha	An Empirical Analysis on Floating Malls	International Journal of Business & Administration Research Review Online-ISSN2347-	Vol.1, no8,Dec-Feb.2015 ISSN2348-0653.
12	Dr. Jubily Navaprabha	Women Entrepreneurs and Kerala Economy	International Journal of Business & Administration Research Review	Vol.1, no10, April - June.2015 ISSN2348-0653.Online-ISSN2347-

				856X.
13	Dr. Jubily Navaprabha	Capital Structure and its Impact on Financial Performance of Steel industry	International Journal of Management	Vol.6, No. 6, June 2015 ISSN0976-6502. Online- ISSN0976-6510.
14	Dr. Jubily Navaprabha	Mobile Triveni Stores in Kerala- Customers' Perspective	Management Researcher	Vol.21, no.4, April-June 2015, ISSN2230-8431
15	Dr. Jubily Navaprabha	Level of Customer satisfaction in Retailing FMCGs	Journal of Management	Vol. 1, No.1, Jan-June 2015, ISSN 2395-0293
16	Dr. Jubily Navaprabha	Islamic Finance and Financial Inclusion: Measuring use of and demand for Formal Financial Services among Muslim adults in India	Research Journal of MES College, Idukki, Nedumkandam	Vol.XII. No.12 Jan 2015, ISSN0976-2523
17	Dr. R. Unnikrishnan	"India's Balance of Payment Position –An evaluation" :	Management Researcher	Vol.XXI No.2 Oct-Dec 2014.
18	Dr. Assalatha	"India's Balance of Payment Position –An evaluation" :	Management Researcher.	Vol.XXI No.2 Oct-Dec 2014.
19	Dr. T.R. Anil Kumar	Tourism-A window to the prospect of Hotel industry in Kerala	Management Researcher	Vol.XX No 4, 79-83 2014
20	Dr. T.R. Anil Kumar	Development of Tourism in Kerala	Yojana Malayalam	Vol.43 N0.1 63-66 2014
21	Sri. Prasanth S. Pai	Problems and Prospects of Tea Industry in Kerala	Institute of Management Development and Research Publication Trivandrum	Vol.18; No. 3; pages 12 to 15; year – 2012
22	Sri. Prasanth S. Pai	Importance of FIIs in the Indian Stock Market: A study on S&P Sensex & Nifty	Southern Economist Bangalore	Vol.52;No.3; pages 39 to 44; year-2013
23	Sri. Prasanth S. Pai	Ethical Practices and Indian Tea Industry	Southern Economist Bangalore	Vol.51;No.23; pages 41 to 44; year – 2013
24	Sri. Vineeth Chandra K.S	An Analysis of Tourists' Satisfaction on E- Tourism	Commerce and business Researcher ISSN No. 0976-4097	Vol 5. Issue 3&4 July 1-

				December 31, 2012
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20. Areas of consultancy and income generated:

Sl. No.	Details of Project/activity	Type / Type of Consultancy	Period	Beneficiary	Paid/ Free
Dr. Jubily Navaprabha					
1	Evaluation of Projects of school students	Visiting Examiner	In Years 2013,14 & 2015	Sri Atmananda Memorial School, Aranmula	free
2	Classes to PLUS TWO students	Guidance and Counseling	2012	DB HSS, Thakazhy	free
3.	Interaction with Mothers of Students	Guidance and Counselling	2011	KP Memorial School, Muhamma	free
4.	Interaction with ITC Students	Talk on Entrepreneurship	2011 & 2012	Punnapra NSS Karayogam, ITC,	free
5.	Counseling Girl Students	Group counseling	2012	TKMM College, Nangiarkulam , Haripad	free
6.	Class on stress Management	Expertise Sharing	2014	S.N.College, Cherthala	free
7.	Classes to PLUS TWO students	Guidance and Counseling	2015	S.N.School, Kanichukulangara, Cherthala	free
8.	Observer for Medical & Engineering Entrance Exams	Expertise/Opinion	2014 & 2015	Different centres in Alappuzha	free
9.	Motivation speak	Invited talk	2015	National Integration Camp of NCC cadets, SNM. Higher Secondary School, Purakkad	free
10.	HIV/AIDS Counseling Programme	Expertise for Counseling	2011 Onwards	SAKSHAM-Global Fund To Fight Aids TB & Malaria	Free
Sri. Krishnan. M					
11.	Classes for school students on future career	Career Guidance Advise	2015	Plus Two students, Thiruvambady High School	Free
12.	Class on career opportunities	Career Guidance	2012, 2014, 2015	Sessions for NSS unit, SD College	Free
13.	Tax Consultancy	Tax Computation	2013, 2014, 2015, 2016	Staff of College	Free
Sri. R. Geethakrishna Pai					
14.	Tax Consultancy	Tax calculation	Till 2013	Staff of college	Free
Dr. S. Nataraja Iyer					

15.	Job Consultancy	Advise	Till 2015	Students of SDC	Free
Dr. T.R Anil Kumar					
16.	Tax Consultancy	Tax calculation	2013, 2014, 2015, 2016	Staff of college	Free

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

National		
Faculty	Membership	Year/ Period
Dr L Ushakumari	Life Member of Indian Accounting Association,	Life member
Dr. L Ushakumari	All India Commerce Association Kerala chapter	Life Member
Dr. Jubily Navaprabha	Commerce Association of Kerala Kottayam	Life Member
Dr. JubilyNavaprabha	Life member of Indian Accounting Association, New Delhi	Life Member
Dr. JubilyNavaprabha	Life Member of RAWs Karnataka	Life Member
	All India Association of Women studies New Delhi	Life Member
Dr. Jubily Navaprabha	PG Board of Studies in Commerce (Uty. of Kerala)	Member from 2011 to 2014
Sri. Krishnan. M	Travancore Management Association, Kottayam	Member

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme*
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies**

(i) U.G. Programme-Final Year

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	-	-	-	100	100	100
(b)**	0	0	0	0	0	0

(ii) P.G. Programme-Final Year

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
(a)*	100	100	100	100	100	100
(b)	0	0	0	0	0	0

23. Awards/ recognitions received by faculty and students

Sl No.	Name	Student/ Faculty	Recognition/ Award	Awarded by
1	Aravind S	Student	6 gold	All India inter university championship in Canoeing & Kayaking
2	Nithya T A	student	1 gold	All India inter university championship in Canoeing & Kayaking
3	Muhammed Riswan	student	1 Gold	Inter University-Power Lifting
4	Nithya T A	Student	5 gold & 1 silver)	All India Inter University

			year	championship in Canoeing & Kayaking
2	Nithya T A	Student	6 Gold	All India Inter University championship in Canoeing and Kayaking
2	Nithya T A	Student	1 silver	All India Inter University Championship in Kayaking
3	Muhammed Riswan	Student	1 Gold	State (Iner collegiate) powerlifting
4	Chinnu S Manoharan	Student	Award for M.com topper	CK George Memorial Fund
5	Chinnu S Manoharan	Student	Award for M.com topper	CK Bharatha Varma Endowment Fund
6	Akhil Kumar A	Student	Awards for B.com topper	CK Bharatha Varma Endowment Fund
7	Akhil Kumar A	Student	Awards for B.com topper	K Hari Memorial Fund
8	Akhil Kumar A	Student	Awards for B.com topper	MN Potti Memorial Fund
9	Akhil Kumar A	Student	Awards for B.com topper	KR Mohanan Memorial
10	Akhil Kumar A	Student	Award for Optional paper (Taxation)	MN Potty Memorial Award
11	Akhil Kumar A	Student	Award for Bcom (Accounting) topper Award) Won by Akhil Kumar A	V. Narayanan Nampoothiri Endowment
12	Akhila K Anil	Student	Award for B.com Sem 1 2015	Subramanian Memorial Fund
13	Chinnu S Manoharan	Student	Award for M Com Sem1 & 2 topper	P M Thomas Endowment Fund
14	Kum. Aswin Sharma	Student	Topper in B.Com, 2012	Prof. S. Rajaram memorial endowment, Management
15	Kum. Thejasree. R	Student	Topper in commercial Law Paper of B.Com, 2012	Sri. Vekitachalam Iyer Memorial Endowment, management.
16	Kum. Thejasree. R	Student	Topper in B.Com, 2013	Prof. S. Rajaram memorial endowment, Management
17	Sri. Ajith D. Prabhu	Student	Topper in commercial Law Paper of B.Com, 2013	Sri. Vekitachalam Iyer Memorial Endowment, Management.
18	Sri. Rajesh R. Bhatt	Student	Topper in B.Com, 2014	Prof. S. Rajaram memorial endowment, Management
19	Sri. Akhil Kumar. A	Student	Topper in commercial Law Paper of B.Com, 2014	Sri. Vekitachalam Iyer Memorial Endowment, Management

24. List of eminent academicians and scientists/ visitors to the department:

Name	Position	Occasion/ Purpose	Date of Visit
Dr. Kevin	Ex Pro VC Kerala Uty.	UGC Sponsored national Seminar	25/10/2014
Dr. M.P. Subramanian	Ex VC Mamgalore Uty.	UGC Sponsored national Seminar	25/10/2014
Shri Salim	Regional Director RBI	UGC Sponsored national Seminar	25/10/2014
Dr. P. Rajendran	VHNSN College Virudhanagar	UGC Sponsored national Seminar	26/10/2014
Smt. Monica	Faculty Rajagiri	UGC Sponsored national Seminar	26/10/2014
C K Vijayappan	Dy.SP Crime Branch	UGC Sponsored national Seminar	10/10/2015
Radesh R Bhatt	ACA	UGC Sponsored national Seminar	10/10/2015
Jayan K	ACS	UGC Sponsored national Seminar	10/10/2015
Dr. Gopalakrishna Sharma	CMA	UGC Sponsored national Seminar	11/10/2015
Azad	ADM, Alappuzha	UGC Sponsored national Seminar	11/10/2015
R. Krishnan	ACA	UGC Sponsored national Seminar	11/10/2015
A C K Nair	Executive Director, CIAL	Inauguration of Golden Jubilee celebration of the Department	18/03/2016

25. Seminars/Conferences/Workshops organized and the source of funding

Programme	Topic/ Area	Dates	Funding Agency	Amount Received
Seminar	UGC Sponsored National Seminar on Recent Trends in Corporate Governance organised by P.G Dept of Commerce and Research Centre , S.D College, Alappuzha	25 th and 26 th September 2015.	UGC	1 lakh
Worshop	Workshop on Research Methods: Tools for Data Collection	May 26 th 2015	Dept. (College)	Nil
Seminar	Seminar on Preparation and Presentation of Literature Review for Research Works in Social Sciences	May 23 rd 2014	Dept. (College)	Nil
Workshop	Two-day Workshop on Statistical Analysis	Sept 20 th & 21 st 2014	Dept. (College)	Nil
Seminar	UGC NATIONAL SEMINAR On Challenges and Prospects of finance & financial services sept 2014	Sept 25 th & 26 th 2014	UGC	1 lakhs
Training	Soft Skills training for Students	27 th and 28 th Jan 2016	Dept. (College)	Nil

Training	Soft Skills training for final year Degree Students (Interview Tips)	21 st Jan 2016	Dept. (College)	Nil
Class	Career prospects in Aviation Sector in association with Avion Aviation Academy, Kochi	Jan 15 th 2016 (Forenoon)	Dept. (College)	Nil
Class	Career prospects in Logistics in association with Logistics Academy	Jan 15 th 2016 (Afternoon)	Dept. (College)	Nil
Workshop	Workshop on MS Excel (as part of Career Guidance Cell)	February 5 th 2016.	Dept. (College)	Nil
Workshop	Workshop on MS Excel (as part of Career Guidance Cell)	September 29 th 2016	Dept. (College)	Nil
Workshop for teachers	ICT enabled Teaching – Learning – A class on Moodle	2014	Dept. (College)	Nil

26. Student profile programme/course wise:

(i) U. G. Programme

Year	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	457	119	46	70	94
2012-13	448	122	59	61	78.99
2013-14	490	126	55	69	87.83
2014-15	476	123	41	86	88.70
2015-16	489	123	41	81	76.40

(ii) P.G. Programme

	Applications received	Selected	Enrolled		Pass %
			Male	Female	
2011-12	265	19	2	13	81.25
2012-13	269	20	6	14	100
2013-14	297	20	2	18	94.44
2014-15	325	19	5	15	95
2015-16	319	21	5	16	90.00

Rank Holder

❖ 1st Rank - Miss. Shima Habeeb -M.Com 2012, University of Kerala

27. Diversity of students

Year	Name of the Course	% of students From the Same state	% of students from other states	% of students from Abroad
2011-12	U. G.	100	--	--
	P.G	100	--	--
2012-13	U.G.	100	--	--
	PG	100	--	--
2013-14	U.G.	100	--	--
	P.G.	100	--	--
2014-15	U.G.	99.17	0.83	--
	P.G.	100	--	--

2015-16	U.G.	100	--	--
	P.G.	100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc.?-

No. of students qualified NET in the year				
2011-12	2012-13	2013-14	2014-15	2015-16
1	--	1	3	--

29. Student progression against % enrolled

	2011-12	2012-13	2013-14	2014-15	2015-16
U.G. to P.G.	10	7	5	5	--
PG to M.Phil.	2	1	1	2	--
P.G. to Ph.D.	-	-	-	-	--
Ph.D. to Post-Doctoral	-	-	-	-	--
Employed:--					
Campus Selection				10	7
Other than Campus recruitment	33	31	38	25	--

30. Details of Infrastructural facilities

Library	Internet facility for Staff and students	Class rooms with ICT facility	No. of PCs in the Dept.
Department Library With more than 500 books and 12 journals.	Broad band internet facility for staff and students	1 smart room with interactive board	09

31. Number of students receiving financial assistance from college, university, government or other agencies.

Name of Scholarship	2011-12	2012-13	2013-14	2014-15	2015-16	Total
National Scholarship	-	-	-	-	1	1
OEC Grant	-	-	2	2	-	4
Post Metric Scholarship	-	-	2	3	1	6
SBI Scholarship	-	-	-	1	-	1
Snehapoorvam Scheme	-	-	-	1	-	1
State Metric Scholarship	-	-	-	-	1	1
Suvarna Jubilee Scholarship	-	-	-	1	1	2
Central Sector Scholarship	2	2	3	9	4	20
C.H. Muhammed Koya Scholarship	-	-	-	1	-	1
SC Scholarship	-	-	8	17	5	30
Fisheries	-	-	3	3		6
Indira Gandhi Single Girl Child Scholarship	-	-	-	1	1	2
KDHP PVT.LTD	-	-	-	1	1	2
Government Financial Assistance						
OBC	35	30	29	23	29	146
SC	60	64	62	66	66	318
OEC	39	32	24	22	21	138
KPCR	133	129	129	110	106	607

SEBC	6	11	15	12	12	56
FC	6	7	4	6	5	28
ST	-	1	1	2	3	7
Total No. of Students	281	276	282	281	257	1377
Total Amount	Rs. 6292441(Sixty Two Lakhs Ninety Two Thousand Four Hundred and Forty One Only.)					

Note: KPCR- Kumara Pillai Commission Report; SEBC- Socially and Economically Backward Communities; FC - Fees Concession.

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Programme	Name of External Expert	Dates
Soft Skills training for Students		27 th and 28 th Jan 2016
Soft Skills training for final year Degree Students	Madhu Bhaskar	21 st Jan 2016
Career prospects in Aviation Sector in association with Avion Aviation Academy, Kochi	Abhilash Simon, CMD of Aviation Academy	Jan 15 2016 (Forenoon)
Career prospects in Logistics in association with Logistics Academy	Tito Antony, Co-ordinator Indian Institute of Logistics	Jan 15 2016 (Afternoon)
Workshop on MS Excel	Prof. Cyria Joseph and Nisa James of St. Gits College Kottayam	February 5 th 2016.

33. Teaching methods adopted to improve student learning

- Participatory Classes
- Lectures with practical orientation
- Smart class room for a real life experience
- Developing entrepreneurial skills through ED club, and allied activities.
- IT aided seminars and paper presentations

34. Participation in Institutional Social Responsibility (ISR) and extension activities

- The students of B.Com, as an assignment for the subject – Environmental Studies were asked to visit their or nearby locality and identify the environmental issues or those activities which strain the life of plants and animals.
- Students are encouraged in all activities of clubs and forums like NSS, NCC, WSC etc.
- Conducting exhibitions, sales and manufacturing workshops through the initiatives of the ED club.

35. SWOC analysis of the department and future plans

a) SWOC analysis:

Strengths
<ul style="list-style-type: none"> • Well qualified and experienced teaching faculty. 5 of them have doctoral degrees. 6 have M.Phil degrees (including those with doctoral degree) • Strong student – teacher relationship • Being located in a rural area, we are able to provide educational facilities to the under privileged sections of the society. We have two batches of B.Com students admitting nearly 130 students which in itself is a rarity in the aided sector • The department collects feedback from students and the valuable suggestions are

implemented.

- Financial support is give in form of fees to poor students.
- Spacious and airy classrooms with ample ventilation space.
- Research oriented teaching learning process
- Effective entrepreneurial training.
- Mix of senior as well as junior teachers enable the students to get the benefit of seniority and vibrancy.
- Has sufficient books and journals required for supporting the students in their study

Weaknesses

- There is lack of training for competitive exams to degree and post graduate level students.
- Since we are attached to the University system, many times the syllabus remains obsolete
- Lack of sufficient working days in a semester due to the socio-political factors of the state.

Opportunities

- There is a huge demand for Commerce seats across the state and we are not an exception.
- Our institution was established in 1946 and there is a huge potential to tap the rich alumni base of the department.
- Opportunity to move into a more student centered learning process.
- The College enjoys good reputation and hence it will find no dearth for help in form of sponsorships or associations

Challenges

- Mushrooming of large number of self financing colleges in the peripheries of Alappuzha offering B.Com with various specialisations is a challenge to the department.
- Loss of classes due to external factors like hartals, strikes etc.
- Communication problem of students (English language

(b) Future plans

- To improve the overall performance of both UG and PG students
- To motivate the new teachers to complete their Doctoral degree
- To make the research scholars more responsible about their work
- To give programmes to students identifying weaknesses of each

DEPARTMENT OF PHYSICAL EDUCATION

1	Name of the Department	DEPARTMENT OF PHYSICAL EDUCATION
2	Year of Establishment	1947
3	Names of Programmes/ Courses offered	No Academic Programme is offered. An open course is offered to the U.G. students of other departments.
4	Names of Interdisciplinary Courses and the Departments/ units involved	An open Course 'Health and Fitness Education' is offered to the fifth Semester U.G. students of other Departments.
5	Annual/semester/choice based credit system (programme wise)	Nil
6	Participation of the Department in the Courses offered by other Departments	Offering an open course to U.G. students of other departments.
7	Courses in collaboration with other Universities, industries, foreign institutions	Collaboration with Sports Authority of India, Kerala State Sports Council and Different Sports Associations to use their sports facilities.
8	Details of courses / programmes discontinued (if any) with reasons	NA.

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	--	--
Associate Professors	1	1
Assistant Professors	1	1

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./MPhil. Etc.)

Sl. No	Name	Qualification	Designation	Specialization	Expe-rience (Yrs.)	No. of Ph.D. Students guided for the last 4 years
1	Dr. P. Sunilkumar	MPED, PhD	Associate Professor	Sports Bio-mechanics	26	--
2	Miss Arya .S	MPED, M. Phil	Assistant Professor	Exercise Physiology	1/2	--

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NA.

13. Student-Teacher ratio (programme wise): NA. No Academic programme offered.

14. Number of academic support staff (technical) and administrative staff; Sanctioned –Nil; Filled –Nil

15. Qualifications of teaching faculty with DSc/D. Litt /Ph. D/ M. Phil/ P.G.

Number of present faculty members with highest degree			
Ph. D.	M. Phil.	M.Ped	B.Ped
01	01	--	--

*Qualification of each faculty is given in item No.10 above.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and the grants received : NIL

17. Dept. projects funded by DST-FIST;UGC, DBT,ICSSR, KSCSTE etc. and total grants received : NIL

18. Research Centre/facility recognized by the University: NIL

19. Publications per faculty : NIL

20. Areas of consultancy and income generated:

Sl. No	Details of Project/ activity	Type / Type of Consultancy	Name of the Faculty	Beneficiary	Period
1	Free coaching classes	Coaching	Dr. P. Sunilkumar	Different schools under Mavelikkara educational district	2011 onwards
2	Free classes for officials of Kababdi	State level Training	Dr. P. Sunilkumar	Officials in Alappuzha, Ernakulam, Kasargode	2011-13
3	Class to officials associated with refereeing	National Level Training	Dr. P. Sunilkumar	Officials at international level	2011-13

21. Faculty as members in (a) National committees (b) International Committees (c) Editorial Boards

National		
Faculty	Membership	Year
Dr. P. Sunil Kumar	Kerala University Senate Member	2010 Onwards
Dr. P. Sunil Kumar	Board of Studies, Physical Education, Kerala University	2010 Onwards

22. Student Projects

- Percentage of students who have done in-house projects including inter-departmental programme: Not Applicable
- Percentage of students placed for projects in organizations outside the institution i.e. in Research Laboratories/Industry/other agencies: Not Applicable

23. Awards/ recognitions received by faculty and students

Name	Year	Student/ Faculty	Recognition/ Award	Awarded by
ARAVIND S	2011-12	Student	6 GOLD MEDALS	Association of Indian Universities
ANEESH KUMAR S	2011-12	Student	3 GOLDS AND 1 SILVER MEDALS	Association of Indian Universities
MANU P G	20011-12	Student	1 SILVER MEDAL	Association of Indian Universities
VIBIN	2011-12	Student	3 GOLDS AND 1 SILVER MEDALS	Association of Indian Universities
SANOOP SATHYAN	2011-12	Student	2 GOLD AND 1 SILVER	Association of Indian Universities

			MEDALS	
SUJITH S	2011-12	Student	1 SILVER	Association of Indian Universities
NITHYA T A	2011-12	Student	GOLD MEDAL	Association of Indian Universities
VIBIN	2012-13	Student	GOLD	Association of Indian Universities
SANOOP SATHYAN	2012-13	Student	GOLD	Association of Indian Universities
PRAMOD T	2012-13	Student	GOLD	Association of Indian Universities
NITHYA T A	2012-13	Student	5 GOLDS & 1 SILVER	Association of Indian Universities
SUJITH S	2012-13	Student	GOLD	Association of Indian Universities
NITHYA T A	2013-14	Student	6 GOLDS	Association of Indian Universities
ARUN P S	2014-15	Student	BRONZE	National Games
VIPIN JAYAPRAKASH	2014-15	Student	BRONZE	Association of Indian Universities
ANJITH	2014-15	Student	BRONZE	Association of Indian Universities
NITHYA T A	2014-15	Student	SILVER	National Games

24. List of eminent academicians and scientists/ visitors to the department:

Name of External Experts	Dates
Dr. K. Suresh Kutty, Associate Professor, Kannur University	10-12-2014
Dr. Jayakumar, Associate Professor, VTM NSS College, Trivandrum	20-03-2015

25. Sports Activities /Seminars/ Conferences/ Workshops organized and the source of funding:

Competitions organized by Department of Physical Education, S D College under the University of Kerala

Power Lifting , Canoeing, Kayaking and Rowing Selection Trials	2013-14
Cricket , Power lifting, Canoeing, Kayaking and Rowing Selection Trials	2014-15
Cricket, Canoeing, Kayaking and Rowing Selection Trials	2015-16
Annual Sports for Students in Athletics	2011-15
Intra-mural competitions for students in cricket, football, volley ball and kabbaddi	2011-16

26. Student profile programme/course wise: NA.

27. Diversity of students: No admission is done at the department level.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services etc. :NIL

29. Student progression against % enrolled: Not Applicable.

30. Details of Infrastructural facilities

Library	Internet facility for Staff and students	Class room	No. of PCs in the Dept.
15 Books in Department Library	Wi fi internet facility is available in the department	1	01
<ul style="list-style-type: none"> 12 station Multi Gymnasium with Weight Lifting and Power Lifting weights. 			

31. Number of students receiving financial assistance from college, university, government or other agencies.- NA.**32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:**

Programme	Name of External Experts	Dates
Invited Lecture on Sports Awareness	Dr. K. Suresh Kutty, Associate Professor, Kannur University	10-12-2014
Invited Lecture Sports Psychology	Dr. Jayakumar, Associate Professor, VTM NSS College, Trivandrum	20-03-2015

33. Teaching methods adopted to improve student learning: Physical training and fitness classes**34. Participation in Institutional Social Responsibility (ISR) and extension activities**

- Coaching Camps are held for students in the game of Cricket, Athletics, Kabbadi and Volley Ball
- Awareness classes on the topic of life style diseases and physical activity for General Public and school/college students

35. SWOC analysis of the department and future plans**SWOC analysis**

Strengths
<ul style="list-style-type: none"> The department has maintained creditable sports achievements till date. We have developed adequate infrastructure for sports. A well equipped gymnasium is maintained. Productive ongoing collaborations with SAI, Sports Council, Sports Associations etc. We have been nurturing the sports talents of the students with dedication.

Weaknesses
<ul style="list-style-type: none"> Lack of adequate boarding facility for athletes Less financial outlay at our disposal Space constraints often do not allow us to fulfil all that is planned. Lack in administrative support staff

Opportunities
<ul style="list-style-type: none"> Developing fitness oriented training programmes for students and the public To develop a sport specific training centre for youngsters To develop a comprehensive program in health education for the students To encourage more participation of students in formal and informal sports activities

Challenges
<ul style="list-style-type: none"> Mobilizing funds for development

- Getting sanction for full time post of coaches on contract
- Starting formal courses in sports studies, sports medicine, physio-therapy etc.
- Developing an general awareness and culture in physical fitness and sports and games among the students and staff
- Incorporating new developments in sports training and coaching

(b) Future plans

- Developing a fitness centre with sports science back up (exercise Physiology, biomechanics & sports psychology Lab)
- Establishing a full fledged operational sports centre
- Maintenance of the main playfield.
- Planning to start a Bachelors Degree Program in Physical Education.
- To provide Yoga classes and Fitness Training Programmes for public and students.
- To construct a multipurpose Indoor stadium.

DEPARTMENT OF MICRO BIOLOGY

(Academic Programme Started in 2014 only)

1	Name of the Department	DEPARTMENT OF MICRO BIOLOGY
2	Year of Establishment	2014
3	Names of Programmes/ Courses offered	BSc. Micro Biology
4	Names of Interdisciplinary Courses and the Departments/units involved	Complimentary Course is offered to the students by Chemistry Department. Bio – technology is offered as complimentary course to the students
5	Annual/semester/choice based credit system (programme wise)	B.Sc. – Choice Based Credit and Semester System
6	Participation of the Department in the Courses offered by other Departments: <u>Complimentary Courses offered by other departments</u> <ul style="list-style-type: none"> Chemistry is offered by the Chemistry Department to U.G. Students of our Department. <u>Language Courses</u> <ul style="list-style-type: none"> Language courses offered by English, Hindi, Malayalam and Sanskrit Departments. 	

7. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	Nil	Nil
Assistant Professors	---	Nil

8. Faculty profile with name, qualification, designation, specialization,

Sl. No	Name	Qualification	Designation	Specialization
1	Dr. Athul Sandeep	MSc, P.hD	Guest Faculty	Microbiology
2	Smt. Amritha	MSc	Guest Faculty	Biotechnology

9. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: 100 %

10. Student-Teacher ratio (programme wise):

	2014-15	2015-16
U.G.	16:1	16:1

11. Student profile programme/ course wise:

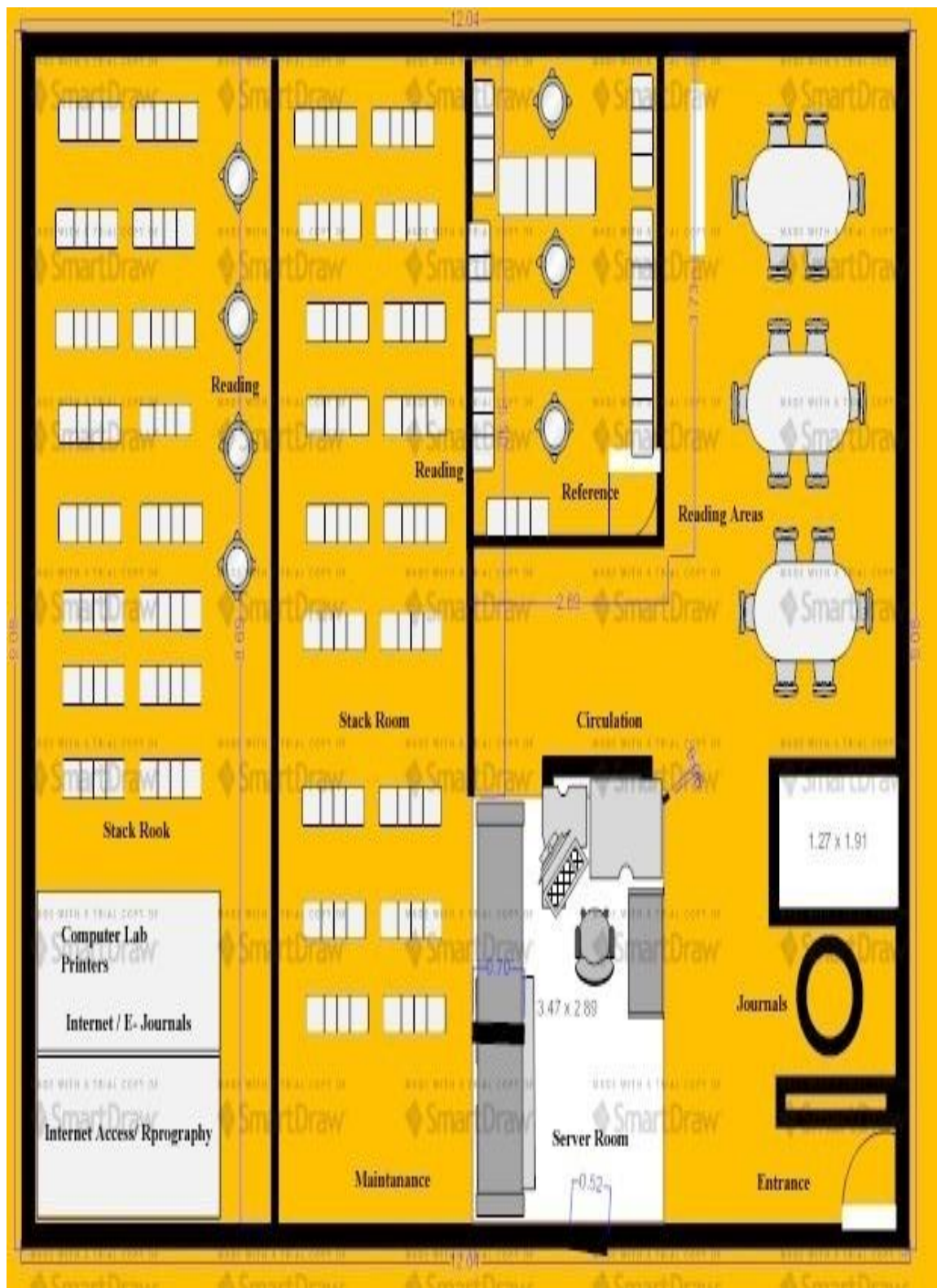
(a) U. G. Programme		
Year	Applications received	Selected
2014-15	78	32
2015-16	256	46

12. Class rooms and Staff room are under construction. The department is expected to be operationalised with permanent faculty by this Academic Year.


APPENDIX 1: MASTER PLAN OF THE COLLEGE



APPENDIX 2: MASTER PLAN OF THE COLLEGE LIBRARY




APPENDIX 3: CERTIFICATE OF RE ACCREDITATION



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the
Sanatana Dharma College
Alappuzha, affiliated to University of Kerala, Kerala as
Accredited
with CGPA of 3.14 on four point scale
at A grade
Valid up to March 26, 2016*

Date : March 27, 2011


Director



EC/55/RAR/098

APPENDIX 4: CERTIFICATE OF UNIVERSITY AFFILIATION

Phone: 0471-2305631
 Fax: +91-471-2307158
 Email: regrku@gmail.com

UNIVERSITY OF KERALA

Thiruvananthapuram, Kerala, India - 695034

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act of 1974 passed by the Kerala State Legislative Assembly)
 (Re-accredited by NAAC with 'A' Grade)

No. Ac.BII/04/41755/16

Dated: 15.10.2016

CERTIFICATE

This is to certify that **Sanatana Dharma College, Sanathanapuram, Alappuzha** is a private aided College permanently affiliated to the University of Kerala since the year 1946, and is currently offering the following Courses.

Sl.No	Courses	Branch	Intake
1	B.A	English Language and Literature	40
2		History	40
3		Economics	60
4		Malayalam	40
5		Hindi	30
6		English and Communicative English	30
7	B.Sc	Mathematics	60
8		Physics	40
9		Chemistry	40
10		Zoology	40
11		Botany	40
12		Micro Biology	32
13	B.Com	Elective –Finance	100
14	MA	Economics	15
15		English Language and Literature	15
16		Malayalam	15
17	M.Sc	Physics	10
18		Botany	14
19		Zoology	12
20		Mathematics	15
21		Chemistry	10
22	M.Com		15

This certificate is issued to the Principal, **Sanatana Dharma College, Sanathanapuram, Alappuzha** to produce before NAAC.



Amudh.
REGISTRAR

APPENDIX 5: CERTIFICATE OF 2 (f) & 12 (B) RECOGNITION



UNIVERSITY OF KERALA

Thiruvananthapuram, Kerala, India – 695034

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the University Act of 1957 and presently governed by the Kerala University Act of 1974 passed by the Kerala State Legislative Assembly)

“Re-accredited by NAAC with ‘A’ Grade”

DR. M. JAYAPRAKAS
DIRECTOR
COLLEGE DEVELOPMENT COUNCIL

Phone (Off) 0471-2306514
Res 0470-2657600
Fax 91-471-2307158
email jayaprakas.cdcd@gmail.com
Website www.keralauniversity.ac.in
Thiruvananthapuram, Kerala – 695 034

No.CDC/2016

Date: 15.10.2016

CERTIFICATE

This is to certify that Sanatana Dharma College, Alappuzha, is included in the list of colleges under 2(f) and 12 (B) of the UGC Act, 1956 published in the website of the UGC and the College has been receiving grants from UGC for colleges under 2(f) and 12 (B).

A handwritten signature in red ink, appearing to read 'Jayaprakas', written over the printed name of the Director.

DIRECTOR
COLLEGE DEVELOPMENT COUNCIL

