ST. JOSEPH'S COLLEGE IRINJALAKUDA

(Affiliated to the University of Calicut and Re-accredited by NAAC, B++, 2007)

SELF STUDY REPORT
in respect of
THIRD CYCLE RE-ACCREDITATION
2013

SUBMITTED TO
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BANGALORE 560072

St. Joseph's College
(Affiliated to Calicut University and accredited by NAAC)
Irinjalakuda 680121, Thrissur District, Kerala State
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No. A-208/2011   31 January 2013

The Director
National Assessment & Accreditation Council
P.O Box No. 1075, Nagarbhavi
Bangalore 560010

Sir,

Sub: Self Study Report for Third Cycle (Re-)Accreditation 2013

In compliance of our LoI requirements, we are glad to submit herewith our Self Study Report in quintuplicate in respect of our Third Cycle Accreditation show-casing the key aspects of the functioning of our college during the post Reaccreditation period, for assessment and validation procedures, accompanied by enclosures as listed on the Contents Page.

We are glad that the self study exercise has offered us an opportunity for ensuring the wide involvement of the entire campus community in taking stock of our functioning during this period and that the effort has strengthened our preparedness for further quality quest in the years to come.

Hope we shall have the pleasure of hearing from you soon on your decision for peer team inspection and meantime remain with cordial good wishes. Thank you.

Yours faithfully
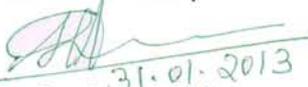
31.01.2013

Dr. Sr. Anee T K
P R I N C I P A L
Encl: as above.

Principal
St. Joseph's College
Irinjalakuda P.O
Thrissur (Dt.) Kerala
Pin - 680 121

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N.B: In compliance of NAAC guidelines, appendices comprising long tables have been avoided completely. These documents will be produced to the Peer team on their visit to the campus.

Executive Summary

Accredited in 2000 as one among the handful of colleges to do so, and re-accredited in 2007 at B^{++} with an 830 score, this affiliated women-only centre of higher learning, on the threshold of Golden Jubilee, is now volunteering for the third cycle re-accreditation, submitting its SSR-2013, a landmark document that faithfully conforms to NAAC's guidelines and unerringly records its testament of beliefs and pursuits of excellence during the last five years.

St.Joseph's College, Irinjalakuda, a college for Women, affiliated to the University of Calicut, Kerala, was founded in 1964 by the sisters of the Congregation of Holy Family, inspired by the visionary zeal of Blessed Mother Mariam Thresia, a pioneer in the field of family apostolate and women empowerment through value based and holistic education. The college was started in response to the dire need of young women, especially of the middle and lower strata of society, who in spite of academic brilliance, had no hope for higher education, since the only college of the area was exclusively for men, and commuting to the college nearest to this hamlet involved around 50 kilometers of travel every day. The college thus fulfilled its mission of 'creating an educational environment for the total development of young women' with a transformative rather than additive function, under the guidance of the pioneers, the visionary Padmabhushan, Fr.Gabriel, and the great stalwart of wisdom, the Founder Principal, late Rev. Sr. Franco, a postgraduate from California University, USA. The authorities of St.Joseph's under the efficient leadership of late Mother Josephine, the then Superior General, geared up a team of eminent Professors, educated in different Universities in America to realize its dream of women empowerment through higher education. Upholding the noble traditions laid down by the founders, the institution surges ahead towards excellence.

The performance appraisal of the institution is summarized below:

1. Curricular Aspects

St.Joseph's College upholds the motto of 'Light, Life, Love', in its graceful realization of the vision of liberation and empowerment of women through knowledge and value based holistic instruction. The college offers 13 UG and 07 PG programmes affiliated to the University, of which three UG and three PG programmes are self financed. New self-financed UG programmes, BCom with Computer Application and BCA were introduced due to high demand from local community. In addition, the college has an innovative PG programme supported by UGC-MSc in Cyber Security and PhD programmes in Mathematics, Chemistry, Commerce and English. The curriculum is strengthened and supplemented by three UGC supported one year Add-on courses, 36 Vocational Certificate Courses conducted by the respective departments including 20 enrichment courses. Introduction of an extra hour facilitates the smooth conduct of the courses.

Faculty participation in orientation/refresher courses, involvement in and organization of workshops and seminars of Regional/ National/International level, and special guidance on ICT teaching technology, have resulted in sufficient exposure to recent advances and changes of the curriculum innovative initiatives. Above 150 eminent resource persons in various disciplines have visited the institution. Coaching classes regularly arranged for NET, JRF examinations, Civil Service examinations, Bank clerical and PSC examinations orient the students towards career placements. The designing and framing of the curriculum for the new generation courses- PG Diploma in Cryptography and PG in Cyber Security, a UGC supported innovative research programme, the first of its kind offered in the state- was managed solely by the faculty of this college. Teachers of this college are consulted on academic matters and curriculum design and

development by the affiliating University by selecting them into academic bodies of UG/PG and research committees.

The institution has always fostered a collaborative network and has linkages with all its beneficiaries like industry, research bodies and the University to facilitate industry internships and placements, in curriculum designing and for career planning.

Half of the faculty are PhD holders and the rest are undergoing the PhD programme. During the post accreditation period there have been 256 research publications in International/National/Regional journals and seminar proceedings, and 20 book publications including seminar proceedings. The active participation of faculty in workshops and seminars, the research projects undertaken and the consistently high pass percentage of students have resulted in a phenomenal increase in admissions and progression to higher learning/employability.

2. Teaching, Learning and Evaluation

St.Joseph's college maintains a learner-centric environment conducive for quality education and student empowerment. The teaching learning atmosphere prevailing in this institution and the high percentage of results (90% to 100% in most of the programmes) result in 100% student enrolment in almost all the disciplines. Due to heavy load of applications, the Management runs a Study Centre outside the campus to accommodate students of the local community who are unable to get admission in this institution and 960 students are enrolled there in the Calicut University Distance Education mode. The newly admitted students are assessed soon after the commencement of the programme using Post Entrance Test (PET). The college also offers an immersion module of a week or two before the students are actually made to confront the syllabus of the programme. This serves as a bridge course before introduction to new surroundings and a new course.

The college also provides remedial coaching classes for SC, ST, OBC, Minority and Economically backward students to better their academic performance level. Academic Excellence Committee proceeds to identify the advanced and slow learners in the beginning of each course, and to achieve their better performance, organizes various programmes. On-campus support and guidance services are provided for the students at the academic, personal and psycho-social levels. 'Each One Teach One' programme helps slow learners. The college has organized more than 100 programmes to sensitize the faculty and students on gender, inclusion and environment.

The college has planned and organized teaching, learning and evaluation schedules by strictly following the Academic Calendar of the University, by maintaining Academic Diaries and by regular meetings convened by the Principal and the IQAC to draw an annual blue print of the events and activities. IQAC plays a vital role in quality enhancement and sustenance of the teaching-learning process by giving timely directions and encouragements and providing facilities for undertaking various functions.

Student-centric teaching- learning is facilitated by providing training sessions to the faculty in the use of ICT in class room, e-content development and other advanced teaching techniques. National and international seminars/workshops, invited talks, debates and discussions are part and parcel of our learning process. Eminent scientists like Dr.A.P.J.Abdul Kalam, our former President, and Atomic Scientist, Dr.Tessy Thomas, Director, AGNI 5 Missile Project, DRDO, Prof.Jeniffer Seberry, School of Computer Science & Software Engineering, Wollongong, Australia, pioneering woman scientist in Cyber Security, and others illumined our faculty and students.

The library is a store-house of information, and a centre of dissemination of knowledge with its large collection of books, journals, CDs, and computers with internet access and reprographic facilities. The College is a subscriber to INFLIBNET-N List which makes available 75,000 e-books and 3000 e-journals in full text format to the faculty, researchers and students.

Quality is given utmost consideration in the appointment of faculty. Recruitment is done based on merit as per the UGC, University and State Government norms and steps are taken by the college for regular quality improvement of faculty. The quality of teaching and learning is monitored at the departmental, faculty and institutional levels through internal academic audit and evaluation by stakeholders.

Regular internal examinations are conducted to evaluate the students as per the University norms. The transparency of the evaluation process is maintained by publishing the internal grade list at least one week before the University examinations. The departmental and college-level Grievance Redress Cell addresses complaints, if any, relating to internal assessment grades and other grievances. The students' performance and progress is closely monitored by the class teachers, tutors/mentors and academic excellence committee, and results are communicated through progress reports and personal contacts with students and their parents.

3. Research, Consultancy and Extension

Growth and development of higher level research has invariably become one of our major focuses in recent years. Promotion and development of research activities are led by our R&D centre, GRACE. The centre acts as the link between the faculty research interests and the funding agencies. This has resulted in 34 UGC funded minor projects, two major projects shortlisted by UGC, 120 research paper presentations made in National/International seminars and 256 research article publications in National/International journals/ seminar proceedings. During the Post accreditation period, the faculty have produced 160 publications in peer reviewed journals of which more than 97 have been listed in International database such as Scopus - International Social Sciences Directory, EBSCO host, Zentralblatt-Math, PubMed, Science Direct, American Mathematical Society, ACM digital library etc., and books with ISBN.

  PG Diploma Course in Cryptography was sanctioned with a grant of Rs. 55 lakhs as a UGC innovative PG programme; DST-FIST sanctioned a grant of Rs. 28.5 lakhs in 2009 for the Departments of Chemistry and Mathematics. Guidance was also provided by GRACE in organizing 23 research oriented workshops/seminars. Publication of an annual interdisciplinary research journal –RAYS- was the result of the recommendation of IQAC and GRACE. This journal has been presently raised to International status with ISSN No. 2319-5770 under the name 'VISTAS', a Multidisciplinary Research Journal from the academic year 2011-12. 25 faculty undertook PhD studies during the post accreditation period (11 under FIP and 14 on part time basis), of whom 13 were awarded PhD.

     This Institution has four approved research centres-Mathematics, Chemistry, Commerce and English. Some of our faculty are approved research guides in research centres of our institution as well as in centres of other universities. The policy of the institution to promote *lab to land* and *campus to community* research culture in the campus has led to a number of student-projects. IQAC promotes institute- industry- interaction. All facilities in the college are made available for consultancy service and the income generated is used for the benefit of the student community/society.

We have Educational, General and Special Extension and outreach programmes with special focus on the under-privileged and the vulnerable sections of society. Weekly value education

classes, free tuition   provided to poor students in the neighbourhood, funding for construction of houses for the poor, maintaining a Library for poor people in the nearby colony, housing project for homeless families, and employment and skill provision for local housewives through Social Work Centre are channels of Institution- Neighbourhood- Community Network.

4. Infrastructure and Learning Resources

The Institution has 81 well furnished class rooms, 18 faculty chambers, ICT enabled Smart A/C seminar halls and 10 tutorial spaces. Specialized labs like Plant tissue culture lab, Microbiology lab, Cold Room, Instrumentation rooms, Physical chemistry lab, Research lab, Gemology lab, B.G. room, Dark Room, Language Lab and Computer labs are extensively used for effective teaching-learning and research. Facilitating lab to land research application for science students, the institution maintains Botanical garden, Medicinal garden, Herbarium, educational museums of Zoology, Botany and History and a Research Library.

The multi-purpose Indoor Stadium with Teakwood flooring consists of Volleyball Court, Basketball Court and four Shuttle Badminton Courts. Ground track facilities are used for training in all kinds of athletic items. Separate sports hostel facilities are guaranteed for higher secondary sports students and our volleyball players. The college offers a fully equipped Fitness and Wellness Centre. An acoustically perfect 1500 capacity auditorium, multipurpose indoor stadium with 3000 seating capacity and an open air 5000 capacity amphitheatre offer the venues for cultural programmes and other college functions.

Hostel facility for 300 students in three Hostel Buildings includes an audio-visual recreation hall, library and internet support, along with the provision of a security personnel. Free clinical assistance of a Gynecologist and a general medical officer is provided in the campus.

Adequately furnished office with full-fledged computing facilities are available for special units like IQAC, Grievance Redress Cell, Women Development cell, Career Counseling and Guidance Centre.

The two-storey fully automated library, with a seating capacity of 300, offers facilities like OPAC, Electronic Resource Management package for e-journals, Reprography, Scanning, Colour and black and white laser printing and N-List offered by INFLIBNET. 300 computers in the campus are LAN connected with Wi-Fi facility available in specific areas. Departments are provided with laptops, computers with internet facility, LCD projectors and screens.

In 2011 a three-storied 1353 sq. meter Seminar Complex was constructed at a cost of over Rs. 1.5 crores to keep pace with the academic growth, accommodating state- of- the- art seminar halls, class-rooms, departments and a computer Lab and Language Lab. The other major facilities augmented include HT installation and various equipment like FTIR, Gas Chromatograph, High capacity Transformer (250 KVA), Solar lamps, New Hostel (UGC Funded), Bio-Gas Plant , Video Editing Suite and CCTVs.

On-campus workshops, smithies and work-sheds operate round the year and two full time supervisory staff ensure the upkeep and maintenance of all infrastructure and equipment. Stabilized power supply through HT connection, desired level of illumination and continuous supply of potable water through rainwater harvesting system with a capacity of 25,000 litres are fully ensured in the institution.

The future expansion plan is to construct a three storied Research Block with canteen facilities on the ground floor.

5. Student Support and Progression

An effective Student Support and Progression Cell functions in this college with a view to empowering young women in this campus. Academic Excellence cell, Student Support cell and Student Progression cell function in the College for achieving this aim. Student Support cell helps the students to avail of various Government/University sponsored scholarships/free ships/concessions. 41% of our students received financial assistance from State Government/ University, 14 percent of the students from Central Government and seven percent of the students from other National Agencies. Full fee Scholarships/freeships, free career and progression coaching, free hostel facilities, free books and stationery are made available to students from SC/ST, OBC and economically weaker sections. No student discontinues her course due to financial constrain.

Equal Opportunity Centre started with UGC support offers coaching classes for competitive examinations, skill development and remedial studies for backward students. Slow and advanced learners are given special coaching/motivation classes. Industrial visits, Entrepreneurial Development Club, Nature club, Tourism club, SIM club, Folklore Club, Hindi club, Debate club, and Department associations effectively function to develop the talents of students.

Students are trained for competitive examinations like UGC- NET, Civil services, Bank Test and PSC Test. Students have been selected for jobs mainly in IT and education fields. Tutorial/mentoring system aims at the all round progress of the students especially their academic, physical, personal and psychosocial well being. Darsana, the on campus full-time government sponsored counseling centre manned by professionals help students with difficulties. HRD/ Career Support Cell gives training programmes for choosing better career options.

Student Grievance Redress Cell effectively functions in the campus for the last several years. A senior faculty coordinates the numerous student welfare schemes. Tutorial/Mentoring system in which each teaching faculty has up to 30 mentees under her/his care and supervision aims at giving personal and professional guidance to each student.

Sports day, arts festival, fine arts day, and celebration of different national and international days ensure the participation of students in extracurricular and co curricular events. Talent seeking programme held at the beginning of the academic year for the Freshers screens the individual student artists. Expert professional trainers help in the development of leadership skills and life skills in the students. The college has produced 10 international, 150 national, and 355 inter university players in various sports items. Our Volley Ball Team has won the University competitions for the past 30 years without fail, and nine of them were in the team that won the National Volley Ball Championship at Varanasi in 2012. The college offers hostel accommodation and food, free of cost, for 25 sports students. Multi-purpose Indoor stadium, outdoor court and 200m field track, football and volley ball courts help the students achieve great heights in sports and games. Kerala State Sports Council provides financial support to the college for Volleyball Sports Hostel and School Sports Hostel.

 The Student Council gives leadership to student involvement in the campus. IQAC, Anti-ragging Committee, and Students Grievance Redress Cell have student representatives. 'Student of the Year' and 'Star of Excellence' awards were instituted as a token of appreciation for the students with proven record of excellence throughout their campus life. The alumnae members offer student support ranging from donations to career networking.

Above 90% pass for most of the UG and PG programmes is a regular feature. The college has bagged more than 25 ranks in the last five years. 55% of students progress to higher education

and eventually to employment. Hundred percent of MSW and MCJ students are placed in Government/NGOs. Sixteen percent were selected through campus placement.

6. Governance, Leadership and Management

The college management is convinced that education is the most effective route to the empowerment of women and the welfare and development of ideal families. Therefore programmes and courses are planned and organized with a view to achieving this purpose. University curriculum has been supplemented with components of regional and vocational relevance from the gender perspective at the instance of the management. The management is keen in providing state of the art infrastructure, financial assistance and residential facilities to the students. St.Joseph's College has been gifted with an array of competent Principals since its inception, who actively improved the quality of the college's educational services. Internal quality assurance systems, frequent programme evaluations, extensive use of ICT etc. are implemented for quality teaching.

The history of the management of this institution has always fostered community-institution network. The foundation of this college itself was vested in a Twenty Member Committee which had representatives including the Municipal Chairperson and local community members. Monthly planning and evaluation meetings of the faculty, PTWA Executive Committee meetings and Annual General Body meetings offer a platform to present and discuss the implementation of plans and policies of the college. Regular meetings of Governing Council, Principal's Council, IQAC and Heads of Departments help in effective planning and implementation of institutional policies. The preparation of Annual Quality Assurance Report presents us an opportunity to evaluate and improve our functioning every year. Annual review and progress assessment is done by IQAC. Feedbacks are collected from all stakeholders and analyzed for the review of implemented quality policy. The management ensures professional development of the employees by providing training to faculty and staff by experts in various fields.

The college has always followed a culture of participative management which includes Top management, Principal, Vice Principal's council, Heads of departments, faculty, staff, student union, PTWA and alumnae. The college conducts a performance appraisal system for faculty, based on students' feedback, research, consultancy and extension activities. 'Teacher of the Year Award' and 'Researcher of the Year Award' are instituted to encourage faculty with excellent all round performance. The different welfare schemes enjoyed by the faculty and staff include on-campus residential facility, interest free loans, advance payment of salary on request, fee concession to the children of non teaching staff and financial help from management.

Finance and Accounts Department, working under the supervision of the Senior Superintendent, administrative control of the Principal, and headed by a Head Accountant, implements all tasks related to finance and accounting. These operations are regularly audited by the auditors deputed by the Director of Collegiate Education, the Accountant General, the Chartered Accountant appointed by the Governing Body and an Internal Audit Body authorized by the Manager. The main source of income of the college is the funds from UGC. As per the last audited Balance Sheet, the Corpus Fund of the College is Rs. 28,97,627. Any deficit in the annual budget is met by the management. The institution also takes efforts to secure additional funds from various agencies such as DST & FIST, NBHM and local bodies like Lion's Club and Rotary Club for development activities.

Internal Quality Assurance Cell (IQAC) has been functioning as a quality sustenance measure since 2004. A Plan-Implement-Review-Improve (PIRI) model is adopted for Quality Assurance of both academic and administrative activities in the institution.

Academic audit to compare the academic performance of each department and institution is done on a daily, monthly and annual basis through Daily Mirror, IQAC visits and SWOT analysis. Teaching Learning Process Review Mechanism is undertaken by Teaching Learning Review Committee (TLRC) in the institution based on the performance indicators provided by the NAAC.

7. Innovations and Best Practices

The college has adopted a number of innovative practices. In addition to the five regular working hours, a sixth hour has been introduced into the college time table to promote soft skill development in students for support and progression.

Our institution strives to provide a learner centric environment conducive for quality education. Interdisciplinary studies, which are considered a major trend in teaching and research, are given due importance and encouragement. Our interdisciplinary programmes include MSc in Cyber security, Add on courses like Communicative English, Gemology, Yoga and Health management, Enrichment courses offered by various departments, Higher Focus course and Family Life Guidance programme. Open course introduced in the new syllabus permits every student to opt for an interdisciplinary course. Interdisciplinary research is encouraged while selecting topics for UG, PG projects and minor/major projects undertaken by faculty.

In an attempt to realize the Vision and the Mission of the institution in letter and spirit, the college has formulated a three year long tag-on programme called Higher Focus Course (HFC) for degree students with focus on academic empowerment.

In order to fulfill social responsibility of the institution and to foster that spirit in students, a variety of community development programmes are conducted through CSS, NSS, NCC, AICUF, CASP, Darsana and Janamaithri Policing.

The college is highly conscious of its responsibility to the student community, the society, the nation and the environment. The slogan, 'Green Campus, Clean Campus', conduct of Green Audit of its campus, conscientisation programmes on Ozone Day, World Forest Day etc., instill in all a love of nature and a desire to conserve energy and water. Biogas plants, Rainwater Harvesting System, use of solar energy, restricting use of plastics, planting 2500 saplings on the Munackal beach, greening drives of Nature Club and the manuscript 'Haritha' are initiatives that motivate the students to protect the environment. The Institution caters to the holistic development of the students under its care and thus follows a number of healthy practices. Two of them- 'Green Campus – Clean Campus' and "Faculty @ Students' Homes" deserve special mention.

St.Joseph's College with its vision of empowering women through the light of knowledge has been serving generations with its unique and innovative ways of teaching, learning and reaching out to the society. It illumines the hearts and minds of people in this part of the country and gives leadership in standing for a good cause. The young women educated in this campus go out with a purpose to contribute to the society by doing justice to their profession, building ideal families and moulding a new generation with values. The quest for excellence which has been the priority of the founders is still leading the institution in its onward journey.

SWOC Analysis

Strengths

- Driven by a vision and a mission for realization of objectives socially up-lifting, academically enriching through research orientation and empowering through value based holistic, learner- centered education

- Wide popular acceptance, unchallenged University recognition and positive governmental support as one of the most peaceful, unpoliticised and academically oriented campuses in the State

- Each core course programme enriched with specially designed vocational component in the form of Add-on/certificate course considered by the industry as potentially relevant, and special emphasis given for issues related to Environment Science

- Thrust on value education as a compulsory major component of the degree programme with prescribed text book, syllabus, regular classes, and examinations complete with proficiency prizes as motivation

- Adequate representation of the college and its faculty in University decision making academic bodies, enabling to voice suggestions for addition and modification and enrichment of course contents and evaluation systems

- ICT enabled interactive and student centered curriculum delivery practices to suit the personal and professional needs of the heterogeneous groups of students in an automated campus environment with an impressive range of learning resources ranging from the well-stocked library to Virtual labs, with special focus on interdisciplinary student projects applicable to industry/society

- Research ambience in the campus achieved by the visits of experts and Scientists during National/International workshops/seminars and their interactions with students - Implementation of Research culture and aptitude among Students under the guidance of highly qualified faculty

- Four full-fledged research centers in Mathematics, Chemistry, Commerce and English Literature operate as knowledge centers. The centre of Mathematics has the special feature of regular international journal publications, conduct of frequent national/international seminars with support from international

organizations such as IMU(Germany), NBHM (DAE), DST and Wipro, and has produced two PhDs with one awaiting open defense

- State-of-the-art infrastructure facilities including computer labs, journalism labs, language lab and research labs developed to keep pace with growing technological and scientific needs, with special thrust on IT and allied infrastructure

- Elaborate feedback mechanism to gauge stakeholder perceptions of all segments

- Strong mentoring and student support system taking care of all students' campus needs on the campus extending even to medical care and wellness – the only college in the state with an on-campus professionally manned full time counseling Centre since 1989

- A committed IQAC, bound to quality enhancement and sustenance initiatives

- Interwoven curricular, co-curricular and extra-curricular student engagements, both on tracks and stage, with meritorious outcomes- University ranks, various types of merit scholarships, several higher level recognitions of NCC-NSS, 'Best College in the University Award' for the highest percentage of pass in the University, 'Sister Hedwige award' for the Best campus in the Country for Value Education, National/International players produced in the field of Sports & Games, several recognitions and awards won in this field

- Wellness and Fitness Centers meant for developing health status of the college inmates, functioning under the guidance of Physical Education Department and open for the public (women only)

- Anti-pollution, conservation and environment friendly units functioning in the campus, adoption and upkeep of the public road in front of the college, pollution-free and eco-friendly green and clean campus

- Alumnae positioned in higher echelon of research/academic, political, entrepreneurship, art and cultural fields

- Unlimited Extension opportunities to infuse students with an ardent sense of responsible citizenship for nation building

- Rural camps, construction of houses, free tuitions, mobile labs, street plays, rallies, philanthropic activities, outreach programmes, activities to empower the marginalized and downtrodden

- All-round and unstinted institutional support from the management for career planning, and to crown them all infrastructure facilities of the institution facilitating smooth higher level education

- Healthy teacher-student relationship

- Innovative and creative environmentally conscious best practices such as green earth project, neighborhood network activities, eco friendly practices, green campaigns, integration of sustainability principles and practices into curriculum through awareness programmes and environmental studies

Weaknesses

- Being an affiliated college no autonomy and hence limited freedom to vertical and horizontal academic empowerment, inability to begin innovative courses in both UG and PG

- Poor economic background of the students and of the locality (semi-urban) a constraint on the level of accessibility to various fields of higher education

- Twinning and Faculty/Student Exchange programme yet to be introduced in the University

Opportunities

- Chances of government approval for autonomy and with that the present constraints on designing and implementing innovative relevant courses to be lifted.

- Self-financing stream to be further strengthened to introduce technology and contemporary programmes

- Consultancy to be further developed into an income generating source and the income thus generated utilized for the infrastructure enhancement of the departments

- PG programmes in Physics, Botany and Zoology and other interdisciplinary subjects

- For a fuller utilization of the infrastructure, evening schedules to be opened up, attracting a large number of women who had to drop out due to occupational or early marriage compulsions

- Research centers for all PG departments to provide more output in the higher research areas

Constraints/Challenges

- Autonomy to higher education institutions in this State likely to end as a dream until a strong political will emerges

- Meagre leave options for pursuing post doctoral research

- Women academicians to be offered higher academic positions at the Government level

- Paucity of funds at the root of all challenges and constraints, infrastructure expansion involving huge funds stalled due to inadequate grants

- As an aided college with a fee structure fixed by the government and university, the institution compelled to find other sources for infrastructural and developmental activities.

Looking Ahead: Future Plans

- Construction of research complex, 'St.Joseph's Research Block' spending Rs one crore as the Golden Jubilee Memorial where all the research centers of the college will be accommodated with all the ancillary amenities including the most modern IT infrastructure

- More collaborative research to be taken up with research institutes of national and international repute

- Philanthropy initiatives to expand the project '*Home for the Homeless'* involving the construction of fifty habitats for the homeless Low Income Group

- An All India Scientific, Industrial and Cultural Exhibition

- Augmenting Faculty Exchange Programmes in collaboration with Universities abroad designing module courses for Foreign University students in Ideological Studies on Indian culture and society

- Publishing International/National journals and books by all research departments

- More 'E-learning content' and FM Radio Programme Productions Studio and relay systems

- State level Golden Jubilee 'Achievement Awards' for Teacher, Researcher, Student and Non-teaching Staff

- St.Joseph's College, Irinjalakuda, Golden Jubilee memorial all India volleyball tournament

- Alumnae to serve the country as able and efficient women leaders

B. Profile of St.Joseph's College

1. Name and address of the college:

Name: **St.Joseph's College, Irinjalakuda**

Address: **Thrissur Dt, Kerala, India**

City: **Irinjalakuda**   Pin : **680121**   State : **Kerala**

Website: **www.stjosephs.edu.in**

2. For communication

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. Sr. Anee T.K	O:0480-2825358 R:0480-2820401	+919446 529446	0480-2830954	principal@stjosephs.edu.in
Vice Principal	Dr. Sr. Rosa K D	O:0480-2825358 R:0480-2822941	+919495 576658	0480-2830954	rosbastin@yahoo.co.in
Vice Principal	Dr. Sr. Lilly P.L	O:0480-2825358 R: 0480-2820401	+919497 062897	0480-2830954	sr.christy@gmail.com
Steering Committee Coordinator	Dr. Philo Francis	O:0480-2825358 R:0480-2827871	+919495 209409	0480-2830954	drphilofrancis@gmail.com

3. Status of the of Institution :
    i.   **Affiliated College**   [√]
    ii.   Constituent   [ ] College
    iii.   Any   other   [ ] (specify)

4. Type of Institution:

  a. By Gender
    i. For Men   [ ]
    ii. **For Women**   [√]
    iii. For Co-Education   [ ]

b. By shift
  i.   Regular   √
  ii. Day
  iii. Evening

5. Is it a recognized minority institution?

Yes   √
 No

a. If yes specify the minority status (Religious/linguistic/ any other) and provide documentary   evidence

Religious Minority. Certificate Enclosed

6. Source of funding:

Government
Grant-in-aid   √
Self-financing
Any other

7. a. Date of establishment of the college: **01-06-1964**

b.   University to which the college is affiliated /
or which governs the college (If it is a   constituent college):   **University of Calicut**

c. Details of UGC recognition:

If yes, date of recognition: **(19/09/1976)**

Under Section	Date, Month & Year	Remarks
2(f) and 12(B)	**19 September 1976**	

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 availing the autonomous status?

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 ………………(dd/mm/yyyy)
   a. For its performance by any other governmental agency?

Yes ☐　　　　　　No ☑ √

If yes, Name of agency…………….……… and
Date of recognition ……………….(dd/mm/yyyy)

10. Location of the campus and area in sq.mts:

Location	Semi urban
Campus area in sq. mts.	76890.271 m^2
Built up area in sq. mts.	30680.57 m^2

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

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.

- Auditorium √ /seminar complex with infrastructural facilities √
- Sports facilities
  * play ground √ **(7)**
  * swimming pool: Nil
  * gymnasium √ **(1)**
- Hostel
  * Boys' hostel: NA
    i. Number of hostels
    ii. Number of inmates
    iii. Facilities (mention available facilities)
  * Girls' hostel √
    i. Number of hostels: **3**
    ii. Number of inmates: **152**
    iii. Facilities (mention available facilities)
  * Working women's hostel: Nil
    i. Number of inmates
    ii. Facilities (mention available facilities)

- **Recreational facilities, yoga center, free on-campus Counseling Centre** with professional counselors and free medical aid centre with a Gynecologist and general medical officer in the campus are available at the service of the inmates. Continuous **supply of cooled and purified potable water**, mess hall with a seating capacity of 400, an **audio-visual recreation hall** and a very spacious open courtyard with two shuttle courts which allow free movement and sociability add to the hostel comforts. Services and guidance of an administrator, three wardens, mess manager and accountant are always available to the students. The hostel is under the full time vigil of security personnel. Single occupancy residential facility is available for the college staff too.
- **Computer and internet facility** is available full time in a special

computer room with several nodes, besides the facilities provided in the college library.

- In case of **medical emergencies**, students are taken to the specialty hospital close to the hostel.

- Residential facilities for teaching and non-teaching staff (give numbers available -- cadre wise)
     a. Cafeteria -- Yes
     b. Health centre – Yes

First aid√ , Inpatient, Outpatient√, Emergency care facility√, Ambulance…….

Health centre staff –
     Qualified doctor   Full time [ ]   Part-time [√]

     Qualified Nurse   Full time [ ]   Part-time [ ]

- **Facilities like banking, post office, book shops : book shop**
- **Transport facilities to cater to the needs of students and staff: No**
- **Animal house : No**
- **Biological waste disposal : Yes (biogas plant)**
- **Generator or other facility for management/regulation of electricity and voltage : Yes**
- **Solid waste management facility: Yes**
- **Waste water management; Yes**
- **Water harvesting: Yes**

12. **Details of programmes offered by the college (Give data for current academic year)**

Sl. No.	Programme Level	Name of the Programme/ Course	Dura tion seme sters	Entry Qualifi cation	Medium of instruction	Sanctio ned/app roved Student strength	No. of students admitted
1.	Under-Graduate	Biotechnology	06	Plus two	English	24	16
2.	Under-Graduate	Botany	06	Plus two	English	36	29
3.	Under-Graduate	Business Administration	06	Plus two	English	36	33
4.	Under-Graduate	Chemistry	06	Plus two	English	48	44
5.	Under-Graduate	Commerce	06	Plus two	English	60	60

6.	Under-Graduate	Commerce with Computer Application	06	Plus two	English	40	32
7.	Under-Graduate	Computer Application	06	Plus two	English	24	16
8.	Under-Graduate	Economics	06	Plus two	English	60	61
9.	Under-Graduate	English	06	Plus two	English	40	36
10.	Under-Graduate	History	06	Plus two	English	60	62
11.	Under-Graduate	Mathematics	06	Plus two	English	48	46
12.	Under-Graduate	Physics	06	Plus two	English	32	39
13.	Under-Graduate	Zoology	06	Plus two	English	40	36
14.	Post-Graduate	Biotechnology	04	UG degree	English	12	09
15.	Post-Graduate	Chemistry	04	UG degree	English	12	12
16.	Post-Graduate	Cyber security	04	UG degree	English	20	NA
17.	Post-Graduate	Commerce	04	UG degree	English	15	15
18.	Post-Graduate	English	04	UG degree	English	15	20
19.	Post-Graduate	Journalism	04	UG degree	English	15	07
20.	Post-Graduate	Mathematics	04	UG degree	English	20	14
21.	Post-Graduate	Social work	04	UG degree	English	20	15
22.	Integrated Programmes PG	Nil					
23.	MPhil	Nil					
24.	PhD	Chemistry		PG degree	English	16	3
25.	PhD	Commerce		PG degree	English	16	Nil
26.	PhD	Mathematics		PG degree	English	16	9
27.	PhD	English		PG degree	English	16	Nil

28.	Certificate courses UGC Add-on	Communicative English	1 yr	Plus Two	English	40	40
29.	Certificate courses UGC Add-on	Gemology	1 yr	Plus Two	English	40	34
30.	Certificate courses UGC Add-on	Yoga and Fitness Management	1 yr	Plus Two	English	40	40
31.	UG Diploma						
32.	PG Diploma						
33.	Any Other (specify and provide details)	34 self supporting Certificate courses run by various departments					

13. Does the college offer self-financed Programmes?

Yes √   No

If yes, how many?   06

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

Yes	√	No		Number	07

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.)

Particulars	UG	PG	Research
Science	1.Biotechnology 2.Botany 3.Chemistry 4.Computer Applications 5.Mathematics 6.Physics 7.Zoology	. Biotechnology . Chemistry . Cyber security . Mathematics	1. Chemistry 2. Mathematics
Arts	8.English	. English	3.English

	9.Economics 10. History		
Commerce	11. Commerce 12. Business- Administration	. Commerce	4.Commerce

Any Other
not covered
above
	13. Commerce with
	    Computer
	    Application
		. Mass
		Communication
		and Journalism
		. Social Work	

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

   a. annual system: Nil
   b. semester system: **21**
   c. trimester system: Nil

17. Number of Programmes with

   a. Choice Based Credit System **: 21**
   b. Inter/Multidisciplinary Approach: **04**
   c. Any other (specify and provide details) : Nil

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

                    Yes ▢   No √

   If yes,

   a. Year of Introduction of the programme(s)……………….
      (dd/mm/yyyy)

      and number of batches that completed the programme

   b. NCTE recognition details (if applicable)

      Notification No.: …………………………………

      Date: …………………………… (dd/mm/yyyy)

      Validity:………………………..

   c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

      Yes ▢   No ▢

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

                    Yes ▢   No √

If yes,

a. Year of Introduction of the programme(s)………………. (dd/mm/yyyy)

and number of batches that completed the programme

b. NCTE recognition details (if applicable)

Notification No.: …………………………………

Date: …………………………… (dd/mm/yyyy)

Validity:……………………

c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?

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 Government *Recruited*	0	0	0	34	05	25	1	26	1	0
Yet to recruit	0	0	0	0	5		5		0	0
Sanctioned by the Management/society or other authorized bodies *Recruited*	0	0	0	0	0	3	3	11	0	0
Yet to recruit	0	0	0	0	0	0	0	0	0	0

*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.	0	0	0	0	0	0	0
PhD	0	0	0	22	02	06	30
MPhil	0	0	0	06	01	05	12

PG	0	0	0	06	02	14	22
Temporary teachers							
PhD	0	0	0	0	0	0	0
MPhil	0	0	0	0	0	0	0
PG	0	0	0	0	0	08	08
Part-time teachers							
PhD	0	0	0	0	0	0	0
MPhil	0	0	0	0	0	0	0
PG	0	0	0	0	01	0	01

22. Number of Visiting Faculty /Guest Faculty engaged with the College. 20

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

Categories	Year 1		Year 2		Year 3		Year 4	
	*M	*F	*M	*F	*M	*F	*M	*F
SC	0	88	0	89	0	75	0	90
ST	0	0	0	0	0	0	0	02
OBC	0	115	0	109	0	164	0	156
General	0	151	0	143	0	102	0	140
Others	0	150	0	172	0	158	0	125

*M-Male *F-Female

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	MPhil	PhD	Total
Students from the same state where the college is located	442	67	0	6	509
Students from other states of India	4	1	0	0	5
NRI students	2	0	0	0	2
Foreign students	0	0	0	0	0
Total	448	68	0	6	516

25. Dropout rate in UG and PG (average of the last two batches)

UG 5%   PG 2%

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.40934.96

(b) excluding the salary component   Rs. 10043.74

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

Yes √   No.

If yes,

a)   is it a registered centre for offering distance education programmes of Another University: **Yes**

b)   Name of the University which has granted such registration.

Mahatma Gandhi University, Kottayam. Kerala

c)   Number of programmes offered :   03

d)   Programmes carry the recognition of the Distance Education Council: **Yes**

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

Sl. No	Programme	Ratio	Sl. No	Programme	Ratio
	Under graduate			**Post graduate**	
1	Biotechnology	1:13	1	Biotechnology	1:4
2	Business Administration	1:23	2	Chemistry	1:2.
3	Botany	1:9	3	Commerce	1:7
4	Chemistry	1:14	4	Cyber Security	1:6
5	Commerce	1:45	5	English	1:3
6	Commerce with Computer Application	1:16	6	Journalism	1:8
7	Computer Applications	1:7	7	Mathematics	1:4
8	Economics	1:45	8	Social Work	1:8
9	English	1:10			
10	History	1:45			
11	Mathematics	1:12			
12	Physics	1:10			
13	Zoology	1:10			

29.Is the college applying for Accréditation:

Cycle 1   Cycle 2   Cycle3 √

Re-Assessment: √

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4

refers to re-accreditation)

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

Cycle 1:   **17/04/2000**

Accreditation Outcome/Result: **3 * (Three Star)**

Cycle 2:   **31/03/2007**

Accreditation Outcome/Result: **B++**

Cycle 3: …………………… (dd/mm/yyyy)
Accreditation Outcome/Result……..

* Copy enclosed

31.   **Number of working days during the last academic year: 200**

32.   **Number of teaching days during the last academic year : 188**

(Teaching days means days on which lectures were engaged excluding the examination days)

33. Date of establishment of Internal Quality Assurance Cell (IQAC)

01/06/2004

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

Report	No	Date
AQAR	(i)	07/08/2008
AQAR	(ii)	28/08/2009
AQAR	(iii)	30/11/2010
AQAR	(iv)	11/11/2011
AQAR	(v)	30/09/2012

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

In addition to the UG, PG and Research Programmes mentioned in this Profile, the Departments offer Add-on courses tagged on to UG courses in order to vocationalize them. The Add-on courses are of two kinds:

1. UGC Aided, University affiliated one year Certificate courses. They are (a) Communicative English (b) Yoga and Fitness Management (c) Gemology coordinated respectively by the departments of English, Physical Education and Chemistry.

2. Second category includes Certificate courses the departments offer on their own. These courses are neither affiliated nor aided. But in all other respects they follow the pattern of category I courses.

3. The total fund received from UGC during the Post accreditation period is **Rs.3,11,51,712/**

4. The drop out of students is mainly due to their option for the professional courses: the final allotment for these courses will be over only after the last date of admission in the Arts and Science colleges as per the University decisions.

5. All the faculty members in the self financing scheme are appointed and paid by the management and they are considered as guest faculty since they are free to move when they get Government jobs.

Criterion I
Curricular Aspects

St.Joseph's College Irinjalakuda, an Institution of Higher Education in Kerala, established in the year 1964, is the graceful fulfillment of a dream of the great visionary and the advocate of Women Empowerment, Blessed Mother Mariam Thresia, the foundress of the Holy Family congregation. The firm belief on empowerment through value based holistic education which is crucial for the formation of ideal families, which lays the foundation of a strong nation, had been the vision of the Foundress. The college with its unique, value based, quality education, has branched out over the past forty nine years offering a variety of subject options at the UG (13), PG (8) and Research (4) levels and has been acting as a catalyst of development and positive change in the academic, cultural, economic and social scenario in this part of India, fulfilling its role in nation-building through empowering young women. Its effective mode of planning, execution and delivery of curriculum through the years has been appreciated by the stakeholders, and the college with its highest pass percentage in the University has earned the reputation as one of the Best in the University of Calicut.

1.1   Curriculum Planning and Implementation

The motto of St.Joseph's College is "*Light, Life, Love*", which aims at the enlightenment and illumination of the heart and mind, moving towards fullness of growth with an element of compassion for fellow human beings, cooperation among peers, communion with the society and above all with the Supreme.

1.1.1   *Vision of the College:*

Women empowered and liberated through knowledge, for a brave new world of ideal families.
Our Mission:
Creating an educational environment for the total development of young women, in this globalized e-world, through value based holistic instruction across a wide range of disciplines and mainstreaming a gender perspective in the national development process.
Objectives:
1. *Providing qualitatively upgraded education and personality enhancement to utilize opportunities offered by the times, at a global level*
2. *Endowing women with a purpose and vision to be ideal mothers and citizens*
3. *Imparting education that is functionally useful, socially relevant and morally uplifting to meet the challenging demands of the present society*

The planning and execution of the functioning and activities of this institution revolve around the vision and mission of the college. The message behind the vision and the mission has been effectively conveyed to all the stakeholder segments of the college through the effective involvement and contribution by the management and faculty who guide the students in their academic and non-academic activities. **Parents** are made aware of the vision and mission during the

admission day, Parents' Meet etc., and **Alumnae** are reminded of it in the alumnae meet and through the alumnae news letter. The Annual Day is another occasion of proclaiming our vision and mission through special programmes and the Annual Report declares how the vision and mission is being translated into action by the management, faculty, staff and students of the institution. Besides that, the following steps are adopted to publicize the vision and mission.

- The professionally maintained and **regularly updated website** highlights our vision and mission.
- The college **prospectus, handbook, magazines and newsletters** are reviewed and renewed every year incorporating new and necessary information.
- Digital **display system and display boards** at the college entrance provide unrestricted access for any entrant, to vital messages that need to be reminded of, on a daily basis.
- **Students newly admitted** are made aware of the vision, mission and objectives through various **programmes during the induction day**.
- Special Programme on **Inauguration of Student Council** highlights the vision, mission and motto of the institution.
- Every **ceremonial occasion and campus festivity** begins with the awareness programmes of these key goals of the institution.
- The beautiful and melodious **college anthem** composed around the central theme 'Vision and Mission' of the college goes deep into the mind and heart of every 'Josephite' and reminds them forever of the great values this institution stands for.

1.1.2 Action Plan for Effective Implementation of the Curriculum

Action plan for the entire college:
The objective of preparing the students for success in education, work and life is achieved in our campus through the effective implementation of the curriculum in three core- interrelated strands of:
a) **Discipline based learning:** Knowledge and skills in Arts, Languages, Sciences, Humanities and Commerce
b) **Physical, Personal and Social Learning:** Knowledge and skills in Wellness and Physical Education, Intrapersonal and Interpersonal Development and awareness of civics, citizenship and social ethics
c) **Interdisciplinary Learning:**   Knowledge and skills and behaviours in Communication, ICT and Living Processes
The entire process of implementation of the curriculum is engineered around the objectives of the institution, in three stages.

- In the **first stage**, the **entire faculty**, under the guidance of IQAC, devise strategies to develop **schemes of action** that give students opportunities to achieve the **stated objectives of the programmes** in the beginning of every academic year.
- In the **second stage**, every **department convenes a formal meeting** to plan and execute teaching methodologies to effect the curriculum,

conduct of examinations, and programmes of co-curricular and extra-curricular activities for the year.

- In the **third stage**, each faculty prepares teaching plans for the syllabus of the concerned classes. The mode of delivery is also pin pointed with extensive use of ICT and innovative methods of teaching and learning adopted. The activities involving non-academic programmes for the students are accordingly planned and consequently the academic calendar is prepared. The academic calendar is audited systematically every week by the Heads of the departments.

This **total-faculty-approach** to curriculum implementation planning ensures:

- A shared vision and shared understanding
- Optimum coverage of all domains within the curriculum
- Addressing of the full range of learning needs of students
- Cohesiveness in teaching, learning and assessment practices
- Consistently improving student learning outcomes with special focus on the weak students

Co-curricular programmes: Co-curricular programmes available in our campus enriching curriculum include National/International seminars, debates and discussions, assignments and project work, fieldwork and industrial visits, regular examinations, 39 Add-on/Certificate courses, Personality development and Spiritual enhancement sessions, activities of NCC, NSS, CSS (Compulsory Social Service), AICUF(All India Catholic University Federation) and Departmental Associations, different types of Camps and Skill Development programmes.

1.1.3 Support from the University and the Institution for Effectively Translating the Curriculum and Improving Teaching Practices

Support from the University:

- The Academic Staff College attached to the University conducts Orientation and Refresher Courses for the teachers in order to improve the quality of teaching and to provide opportunities for professional and academic development.
- Adequate guidance is also given by the University in the use of new educational technology and ICT in teaching and learning aspects of the curriculum newly introduced through seminars and workshops.
- Teachers at the college level are always consulted whenever the University takes a decision on academic matters. Some of them are members of various academic bodies of the University.
- Permission to attend such programmes with incentives like leave-pay is granted by the management to every member of our faculty.

Participation of Faculty in Quality Enhancement Programmes

Sl. No.	Programme attended	Beneficiaries
1.	International Seminars	70
2.	National seminars	132
3.	Orientation Courses	05
4.	Other Seminars	96
5.	Refresher Courses	08

Support from the Institution: The management has a vision about the faculty, and motivates them in various ways to meet the challenges of the times. The prominent strategy followed here is Discipline based; but in order to introduce flexibility in curriculum delivery that suits the needs of the learners, the college chooses to incorporate standards from the Interdisciplinary and Physical, Personal and Social Learning strands into existing discipline-based subjects and broaden their focus. This is done through introducing Add-on and Certificate courses, Soft skills and Value oriented courses.

The Institution supports the faculty by:

- Facilitating the structures needed to effectively implement the curriculum - professional skills, time-tables, meetings and class divisions
- Providing the resources required ensuring successful delivery of curriculum - administrative skills, external professional expertise, ICT, library and related resources including online, external tie-ups and arrangements for projects, internships, visits etc.
- Arranging a learning environment - (infrastructure, teaching and learning practices, time allocation, and digital environment) that would best support most effective teaching and learning practice
- Input and Discussion sessions arranged for the faculty, which involve planning, methodology and execution for effective teaching and quality enhancement in the beginning of every academic year
- Encouraging the teachers to organize seminars and to participate in seminars and workshops organized by other HEIs to equip, update and produce the present state of affairs in the respective knowledge areas
- Provision of free internet connection, LCD projector, OHP and other computer facilities for effective student - centric teaching in all the departments- Technical support provided whenever required
- Establishing a peaceful and research oriented working atmosphere, including smart A/C seminar halls for conducting seminars and workshops

The IQAC Initiative

The IQAC initiates and monitors all developmental activities, curricular, co-curricular and extracurricular. It provides awareness to the faculty regarding the new developments in the educational scenario, e-learning and e-content development etc. It encourages faculty to have more publications and helps them in project preparation and fund raising initiatives. It brings out newsletters every month for the faculty to disseminate information about specific accomplishments in teaching and research and on techniques and technologies in the educational domain. During the years under review, the college in collaboration with the IQAC has organized many programmes in this connection.

Faculty Enrichment Programmes conducted by the IQAC

Sl. No.	Name of the Programme	No. of Events
1.	Faculty Exchange Programme	04
2.	ICT Oriented Training	12
3.	Orientation Courses	04

| 4. | PowerPoint Presentations by the Faculty | 35 |
| 5. | Refresher Programmes | 08 |

Improvement and Outcome:

- By means of an elaborate feedback mechanism, the teacher is made aware of the drawbacks he/she has to rectify in order to step up his/her capability as a teacher. The college keeps the teachers motivated by immediate and due recognition of the contributions they make to the campus life – academic and non-academic. The Pavanatma Educational Society of the Congregation of Holy Family has instituted the '**Teacher of the Year**' award which is declared and awarded during the college Annual Day.
- The functional flexibility of the college enables the faculty to undertake research projects and this in turn adds to their efficiency as teachers.
- Eleven faculty members have availed of the FIP programme and at present half of our faculty members are PhD holders.
- The faculty has produced a total of **256 research publications** in International/National/Regional Journals and Proceedings during the period.
- There have been **20 publications** of books including proceedings of national/international seminars.
- Quest for research and quality improvement of the college is portrayed through the introduction of **three more research centres** during the post accreditation period.
- The pass percentage of the students has been showing an increasing trend throughout the years and our students are sought after by high level employment sectors.

1.1.4 Institutional Contribution to Effective Curriculum Delivery and Transaction:

The change in the curriculum introduced by the University from the academic year 2009-10 necessitated the rescheduling of the entire course work, affecting the teaching pattern of the programmes and directing the student towards research oriented studies.

The following initiatives have been taken up and contributions made by this institution for the effective delivery and transaction of the curriculum provided by the University in an innovative and interactive way:

- Facilities and skill development equipment like computers, smart board, LCD projectors etc. provided for **ICT delivery and e-content development**
- Providing adequate flexibility in the choice of subjects, to the students, by offering a wide range of options available in the University
- Making the system of **Choice-based Credit Semester System (CCSS)** and internal assessment process introduced in the institution more efficient and self-reliant through the co-curricular activities
- Encouraging consistent **interaction with all stakeholders** like students, alumni, parents, industry, social organizations and other relevant experts

in the progress of the implementation of the system and obtaining from them adequate and timely feedback

- Facilitating **consultation with different National and International centres** of higher learning on the scope and methodology of choice-based curriculum in different degree programmes and following their best practices

1.1.5 Networking with Beneficiaries like Industry, Research Bodies and the University:

The institution has always fostered a collaborative network with all beneficiaries like industry, research bodies and the University. In the Curriculum Planning, Implementation and Evaluation Committee (CPIEC), we have experts from Industry, Research and from various Universities, national and international.

1. Institute-Industry Interaction:

- HRD cell has been formed on the campus in order to facilitate industry interactions, internships and placements.
- Indian Industries Association representatives are consulted for Industry involvement in curriculum adaptation.
- Interaction between institution and industry is improved through sharing of expertise at common platforms through workshops, seminars and conferences.

Industry based projects undertaken by students

Department	2007-08	2008-09	2009-10	2010-11	2011-12
Business Administration	31	23	22	32	29
Commerce	18	10	08	15	09
Social Work	06	08	04	05	04

- Industry owners/experts are regularly invited for lectures/interaction with the students in the institution to give them guidance on career planning and entrepreneurship.
- Access to library resources is provided for industry personnel in exchange for access to learning resources industry can offer through visits and camps.
- Informal linkages are established with Government agencies engaged in Industrial development activities.
- Sales promotion and exhibition of products of local artisans and 'Kudumbasree' are held every year to promote entrepreneurial skills in students as well as to increase the marketing potential of their products.

2. Institute - Research Body/University interaction: To enhance the contribution to nation-building, departments in our college have entered into state/national/international level linkages. We have 285 such linkages out of which 45 are international and 23 are national.

1.1.6 Contribution of the Institution and Staff to the Development of Curriculum by the University

As this is an affiliated college, we have to follow the syllabus given to us by the concerned academic bodies of the University. Members of our faculty nominated by the University to its curriculum framing committees have rendered significant service in making the curriculum industry-relevant suggesting incorporation of components appropriate for the purpose.

Teacher Participation in Curriculum Framing Committees

Sl. No.	Teacher Participation in Various Bodies	Number
1.	Participation in Academic bodies	35
2.	Participation in Research committees	10
3.	Participation in Syllabus revision	21
	Total	**66**

However, the role of our faculty in designing the curriculum of new generation courses like UG and PG in Biotechnology, PG in Mass Communication and Journalism, PG Diploma in Cryptography and PG in Cyber Security was indeed crucial. In framing and designing the curriculum of PG Diploma in Cryptography and MSc in Cyber Security, the dependence of the University on our expertise was almost complete. In this process our faculty went through all the stages beginning with need assessment, development of information database, collecting feedback from stakeholders and ending with communication of this information to the appropriate University authorities for inclusion in the syllabus.

1.1.7 Development of Curriculum for Courses Offered (other than those under the Purview of the Affiliating University):

The Institution has developed curricula for certain programmes sanctioned by UGC such as PG Programmes in Cryptography and Add-on Certificate Courses, as explained above.

The college has placed an offer to the Consortium for Educational Communication, Delhi, for the development and delivery of E-learning content for Higher Education institutions. One of our faculty members, Dr. Aneesh E.M. of Zoology department (Young Scientist Award Winner) is entrusted with the duty of developing e-learning content in Zoology and Bioinformatics for Educational Multi Media Research Centres of University of Calicut and University of Mysore.

The Process of Curriculum Development:

1. **Need Assessment:** Need assessment is done even before the choice of the programme. This is done by evaluating the feedback from stakeholders.
2. **Design of Curriculum:** This is done by an Expert Committee (CPIEC) of Department Head, Experts from industry, Research and University and the Programme Co-ordinator. If the course is inter-disciplinary, Heads of departments and experts from all the departments concerned will be the members of the committee. The designing part was done after making a thorough evaluative study of the content and design of similar programmes offered by various other Universities at national /international level.

3. **Development and Planning:** Target group and their needs are given priority while designing curriculum. (For example, the consideration whether it is a UG or PG or Post PG Programme; whether they are from Arts or Science or Commerce background etc). The objectives of the group also are given focus. Throughout the designing stage, focus is set on the objectives pre-determined for the programme as well as the objective of the institution. Duration of the Programme, Hours of teaching, Courses (Theory as well as Practicals)offered, Projects or internships if any, Mode of Assessment are the other concerns that arise at the department's planning stage.

Apart from the University affiliated UG and PG degrees, the college has provisions also for **39 Add-on/Enrichment courses for which it has designed valid curricula**. Three of them are UGC aided and University affiliated One Year Certificate Courses with curricula prepared by our faculty and approved by the University.

1.1.8 Institutional Analysis to Ensure the Achievement of Stated Objectives of Curriculum in the Course of Implementation

- **Achievements of Objectives:** Objectives of each course are mentioned clearly along with the syllabus given to the teachers as well as the students. Each department plans a series of activities through the **Departmental Associations**, which will complement the syllabus and help the students achieve the objectives of the programme.
- **Mode of delivery of Curriculum:** Use of ICT in class rooms takes the students to a world beyond the syllabus. Virtual labs, interaction with global level experts etc play an important role in curriculum delivery in this institution.
- **Assessment pattern:** Various modes of assessment are formulated by the faculty in order to ensure that the stated objectives are achieved (Quiz, G.D., Assignments, Posters, Power point presentations, Seminars etc., by the students).
- The Co-curricular activities designed and implemented here are calculated to expand and enhance the learning outcome of the students through intense level of interaction within the campus.
- Outside-the-classroom involvement includes membership in student clubs and organizations, athletic team participation or campus leadership opportunities.
- Involvement in co-curricular programmes has proved a successful strategy to help students meet their learning objectives along with the institution's educational purposes and values.
- Department Associations play a vital role in coordinating the co-curricular activities in this institution. The following table gives the number of such programmes organized.

Various Association Activities

Sl. No.	2008-09	2009-10	2010-11	2011-12
1.	180	213	212	198

Continuous evaluation of the students through internal assessment and examinations brings out the best in them. Achievements of the students in numerous events within and outside the campus, the numerous placements and offers they receive ensure that the set objectives are achieved. The feedback from the students enables faculty to improve the curriculum delivery and professional skills. An extra hour has also been introduced to incorporate the Add-on and certificate courses to help them achieve the objectives.

1.2 Academic Flexibility

1.2.1 Details of the Certificate/Diploma /Skill Development Courses etc., Offered by the Institution

Goals and Objectives of the Certificate/Diploma /Skill Development Courses:
- Quest for excellence
- Value formation
- Equality and social justice to women
- Global level competency, employability and Self development
- Bonds between the world of work and the world of learning
- National development and community service with due respect for nature and environment

Details of certificate courses:

Apart from the **21** University affiliated UG and PG programmes and three UGC aided and University affiliated one year Add-on certificate courses, the college also offers **36** unaided certificate programmes to meet with the employers demand for skilled personnel. Keeping this trend in mind, all the departments in the college have tagged on to their conventional degree programmes, at least one Certificate programme in order to make them vocational, a unique feature exclusively offered by our college.

Vocational & Enrichment Certificate Programmes

Sl. No.	Programme	Department	Beneficiaries
	Enrichment &Vocational Certificate Programmes		
1.	Production of Bio Control Agent	Biotechnology	115
2.	Vermi Compost Production		115
3.	Oyster Mushroom Production		113
4.	Tissue Culture		113
5.	Horticulture Techniques	Botany	123
6.	Bioinformatics		76
7.	MS Office		120
8.	Soaps, Detergents and Cosmetics	Chemistry	190
9.	Tally Graduation & Personality Development	Commerce &Business	260

10.	Digital Practical Accountancy & Tax Practitioners	Administration	259
11.	Accounting in Computer		256
12.	Computer Operator	Economics	180
13.	E-Commerce		60
14.	Computer Craft & First Aid	History	175
15.	ASP.Net	Mathematics	24
16.	J2EE		24
17.	Commercial & Industrial Mathematics		236
18.	Basic Course in Computer science		86
19.	Electric & Electronic Equipment Servicing	Physics	162
20.	Home Management & Health Care	Zoology	98
	Vocational Certificate Programmes		
21.	e-Commerce	Botany	90
22.	Craft Work	Economics	173
23.	Jewellery Making		48
24.	Beauty and Grooming		150
25.	Beauty and Health Care	English	136
26.	Spoken English		150
27.	Centre for Performing Arts	Hindi	38
28.	Interior Decoration		90
29.	Multilingual Data Entry Operators' Course		38
30.	Diploma in Ecological Studies		38
31.	Personal Grooming		80
32.	Sartorial Dec(Apparel Design)		85
33.	South Indian Cuisine Techs		80
34.	Accountancy and Tally, Photoshop	Mathematics	43
35.	PHP		24
36.	G Operator Computer Basics	Zoology	34

In addition to the above, the HRD Centre of the college arranges regular coaching classes for the following job oriented competitive examinations:

- NET/JRF Examinations of Chemistry, Commerce, English and Mathematics
- Civil Services Examinations
- Bank Clerical and PO Examinations
- PSC and other competitive examinations
- Common Proficiency Test of the Institute of Chartered Accountants (CPT)

1.2.2 Programmes that Facilitate Twinning/Dual Degree

The Calicut University to which the institution is affiliated does not permit either twinning or Dual Degree at present. Hence, the college has taken the initiative to tag on a Certificate course to every degree course offered to enhance employability and global level competence.

1.2.3 Academic Flexibility, Mobility, Skill Development, Progression to Higher Studies and Employability

Students have sufficient choices provided by the institution with reference to academic flexibility. In terms of skill development, academic mobility, progression to higher studies and improved potential for employability, students have benefited immensely from the academic/ non academic training offered by the institution.

The college offers a wide variety of programmes ranging from the conventional to the contemporary at the UG, PG, and Diploma ,Certificate levels. With more than **36** programme options, this college delivers not only academic quality but also diversity. New offerings reflect areas of emerging interest like Cyber Security/ Cryptography, Gemology, Communicative English etc. We also offer an array of skill development diploma and certificate options, as mentioned earlier.

In order to **augment skill development**, the time-table is reframed to provide time-space for every department to conduct extra skill development sessions. At least one hour, every day is utilized for this purpose, by the whole institution.

Career Guidance sessions and skill development sessions conducted by hired professionals have been built into the college's work schedule in order to ensure that every student gets its benefit. Seminars and workshops national/international, invited talks and innovations in curriculum delivery like the use of ICT in class rooms instill in the students a desire for higher studies. Fifty five percentage of our UG students **progress to higher studies.** As a result of the training for employability and campus recruitment drives conducted by the HRD, **16%** of students get employed right after the completion of the degree, through campus selection.

a) Range of Core /Elective options opted by the college from the University list:

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Under Graduate Courses (Six Semesters)

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Sl.No.	Part	Course
1.	Part I	English (Common)
2.	Part II	Malayalam or Hindi (Common)
3.	Part III	Core and Complementary

Options:

a) Part III Core and Complementary Options at the UG level (Choice Based Credit System and range of subject options)

<div align="center">

Core and Complementary Options at the UG level

</div>

Sl. No	Programme	Core Course	Complementary

1.	BSc	Biotechnology	Chemistry&Environmental Biotechnology
2.	BSc	Botany	Zoology and Chemistry
3.	BSc	Chemistry	Mathematics and Physics
4.	BCA	Computer Applications	Mathematics and Statistics
5.	BSc	Mathematics	Statistics and Computer Science
6.	BSc	Physics	Mathematics and Computer Science
7.	BSc	Zoology	Botany and Chemistry
8.	BA	Economics	History and Sociology
9.	BA	English Lang. & Lit.	British History and Sociology
10.	BA	History	Economics and History of Journalism
11.	BCom	Full Core Courses	Finance Specialization
12.	BCom	Full Core Courses	Computer Application as special subject
13.	BBA	Full Core Courses	Finance Specialization

b) Elective Options at the UG level:

Sl. No.	Programme	Electives
1.	BSc Biotechnology	Medical Microbiology
2.	BSc Botany	Genetics and Plant Breeding
3.	BSc Chemistry	Analytical Chemistry
4.	BCA	Computer Graphics and Multimedia
5.	BSc Mathematics	Linear Programming
6.	BSc Physics	Material Science and Thin Films
7.	BSc Zoology	Human Genetics
8.	BA Economics	Economics of Business and Finance
9.	BA English Lang. and Lit.	World Classics in Translation
10.	BA History	History of Human Rights Movements
11.	BCom	Indian Financial System Financial Management Financial Services
12.	BCom with Computer Applications	Office Automation Fundamentals of Computer
13.	BBA	Investment Management Indian Financial System Working Capital Management

c) Post Graduate Degree Programme Options

Post Graduate Degree Programme

Sl. No.	Programme	Subject
1.	MSc	Mathematics

2.	MSc	Chemistry
3.	MSc (Self Supporting - affiliated)	General Biotechnology
4.	MSc (UGC Funded Innovative Programme)	Cyber Security
5.	MA	English Literature
6.	MCom	Finance (Specialization)
7.	MSW (Self Supporting - affiliated)	Medical and Psychiatric Social work and Rural Urban Community Development(RUD)
8.	MCJ (Self Supporting – affiliated)	Mass Communication and Journalism

PG Programmes:

MA English:

Semester I	Semester II
• British Literature from the Age of Chaucer to the 18th Century • British Literature:19th Century • British and Continental Drama • English for Advanced Communication	• 20th Century Literature up to World War II • Criticism and Theory • American Literature • European fiction in Translation
Semester III	Semester IV
• 20th Century British Literature: Post 1940's • The English language and History and Structure Literature • Post Colonial Fiction and Drama • Malayalam Literature in Translation	• Indian English literature • Dissertation/Project • American Ethnic Writing • Linguistics • Indian English Fiction • Project

MCom:

Semester I	Semester II
• Business Environment • Quantitative Techniques • Accounting for Managerial Decisions • Management Information Systems • Organizational Theory and Behavior	• International Business • Advanced Corporate Accounting • IT Applications in Commerce • Operations Research • Strategic Management
Semester III	Semester IV
• Financial Management • Research Methodology in Commerce • Income Tax • Advanced Cost Accounting	• Financial Market and Institutions • Security Analysis and Portfolio Management • Strategic Financial Management • Financial Derivatives • Project

MSc Mathematics:

Semester I	Semester II
• Algebra I • Linear Algebra • Real Analysis I • ODE and Calculus of Variations • Discrete Mathematics	• Algebra II • Real Analysis II • Topology I • PDE and Integral Equations • Number Theory
Semester III	**Semester IV**
• Complex Analysis • Functional Analysis I • Topology II • Linear Programming and its Applications • Project	• Functional Analysis II • Differential Geometry • Measure and Integration • Operations Research • Project

MSc Chemistry:

Semester I	Semester II
• Theoretical Chemistry I • Inorganic Chemistry I • Organic Chemistry I • Inorganic Chemistry - Practical I • Organic Chemistry- Practical I • Physical Chemistry- Practical	• Theoretical Chemistry II • Physical Chemistry I • Organic Chemistry II • Inorganic Chemistry- Practical I • Organic Chemistry -Practical I • Physical Chemistry- Practical I
Semester III	**Semester IV**
• Physical Chemistry II • Inorganic Chemistry II • Inorganic Chemistry- Practical II • Organic Chemistry- Practical II • Physical Chemistry- Practical II **Electives** • Synthetic Organic Chemistry • Natural Products • Polymer Chemistry	• Advanced Topics in Chemistry • Inorganic Chemistry -Practical II • Organic Chemistry- Practical II • Physical Chemistry- Practical II • Industrial Catalysis • Bioinorganic and Organ metallic Chemistry • Research Project **Electives** • Instrumental Methods of Analysis • Computational Chemistry • Material Science

MSc Biotechnology:

Semester I	Semester II
• Microbiology • Biomolecules • Cell Biology • Laboratory-1	• Metabolism and Basic Enzymology • Molecular Biology • Environmental Biotechnology • Biostatistics and Bioinformatics- • Laboratory-1I
Semester III	**Semester IV**

• Genetic Engineering • Bioprocess Technology • Plant Biotechnology • Immunology • Laboratory-III	• Electives • Industrial Food Biotechnology, • Nanobiotechnology • Stem cell biology • Project work

MSW:

Semester I	Semester II
• History, Philosophy and Fields of Social Work • Sociology and Economics for Social Work • Human Growth and Development • Social Case Work • Community Organization and Social Action • Concurrent Field Work (2 Days)	• Social Group Work • Psychology for Social Work • Theory and Practice of Counseling • Social Work Research • Social Analysis and Strategies of Social Change • Concurrent Field Work (2 Days)
Semester III	**Semester IV**

• Social Work Administration and Participatory Project Planning and Management
• Quantitative Methods In Social Work Research
• Community Health and Health Education
• Social Work in Medical and Psychiatric Settings
• Psychiatric Information for Social Work
• Gandhian Philosophy of Community Development
• Rural And Urban Community Development
• Concurrent Field Work (2 Days)
    Specialization
• Medical and Psychiatric Social Work
• Rural and Urban Community Development
	• Human Resource Management in Human Service Organizations
	• Social Legislation
	• Therapeutic Approaches in Medical And Psychiatric Settings
	• Health Care Administration and Legislation
	• Environmental Studies and Disaster Management
	• Development Economics
	• Concurrent Field Work (2 Days)
	• Dissertation
	• Block Placement (One Month)
	    Specialization
	• Medical and Psychiatric Social Work
	• Rural and Urban Community Development

MCJ:

Semester I	Semester II
• Introduction to Mass Communication • News Editing	• Public Relations • Advertising • Theories, Themes and Issues

• News Reporting • Mass Media History	• Media Law
Semester III	**Semester IV**
• International Communication • Development Communication • Radio Film TV • Research Methodology	• International Communication • Development Communication • Radio Film TV • Research Methodology

MSc Cyber Security:

Semester I	**Semester II**
• Computational Number Theory and Algebra • Data Communications and Computer Networks • Principles of Digital Systems and Computer Hardware • Object Oriented Programming and Data Structures with C^{++} • Operating Systems • Lab : C^{++}	• Java and Web Programming • Design and Analysis of Algorithm • Data Base Management System • Software Engineering • Lab : Java • Mini Project
Semester III	**Semester IV**
• Network Security and Computer Crimes • Secure Internet Programming • Fundamentals of Cyber Security • Cryptography • Neural Networks and Fuzzy Logic • Lab: Cryptography	• Project • Viva Voce (on the Entire Course)

c) PhD Programmes:

PhD Programmes are offered by the Research Centres approved by the University of Calicut namely, Mathematics, Chemistry, Commerce and English.

d) Add-on Courses

The college has provisions for a number of Add-on/Enrichment courses. Three of them are UGC aided and University affiliated one year certificate courses.

1. **Communicative English:** Coordinated by the Department of English, and open to the first year degree students
2. **Gemology:** Coordinated by the Department of Chemistry, tagged to the BSc Chemistry programme
3. **Yoga and Fitness Management:** Coordinated by the Department of Physical Education, open to all First Year students of the college

Interdisciplinary Courses: Provision for choosing open courses which belong to a discipline different from the core course opted, gives the student unrestricted freedom to opt for any subject she likes.

Open Courses Offered by the Institution

Sl. No.	Programme	Open course
1.	Business Administration	Hospitality Management
2.	Biotechnology	Food Microbiology
3.	Botany	Horticulture and Nursery Management
4.	Chemistry	Environmental Chemistry
5.	Commerce	Basic Accounting
6.	Economics	Banking
7.	English Literature	Creative writing
8.	History	Historical Tourism
9.	Mathematics	Mathematics for Natural Sciences
10.	Physical Education	Physical activity, health and wellness
11.	Physics	Non Conventional Energy Sources
12.	Zoology	Human Health and Sex- Education

The following programmes combine various disciplines and offer the combination as a single programme of study:

- Master of Social Work
- Master of Journalism and Mass Communication
- MSc Biotechnology
- BSc Biotechnology
- Bachelor of Business Administration

Flexibility for the students to move from one discipline to another: The University does not permit unrestricted freedom in this regard. In the case of certain subjects, change of subject is possible when a student shifts from one level to another, that is, from UG to PG. For example any graduate can join for MA English or MA Hindi/Malayalam if she has obtained minimum eligibility marks in the language she chooses for MA or a graduate in Mathematics can join MSc Statistics and any graduate is eligible for multidisciplinary courses like MBA, MSW or MCJ that are composed of or combine several usually separate branches of learning.

Flexible time for completion: Though the minimum period required for the completion of a programme is fixed, no rigid rule limits the freedom of a student to do a programme within a reasonable time frame. For example, the minimum period required for the completion of the UG degree is six semesters, but the student is granted a few more chances to complete the course if he/she fails to complete it in three years, but never as a regular student. However, no student can expect to prolong a course to an indefinite period of time. When a scheme comes to an end, the University grants the concerned students mercy chances beyond the stipulated time frame. Affiliated colleges like ours, however, can only air our views on matters of this sort through our representatives in the appropriate bodies of the University. The final decision in matters of this sort rests with the University.

Enrichment Programmes: We provide a number of enrichment programmes in addition to the above and they offer ample opportunities to learn a new skill, achieve an extra qualification or gain a useful experience. The added advantage is that, they enrich the student's CV as it exhibits student's interests and skills beyond the conventional Degree Programmes. The enrichment courses offered are included in 1.2.1.

According to the Programme/Course structure of the affiliating University,

- Choice-based Credit-based Semester System is followed, but range of subject options is narrow. We have opted for maximum flexibility in this regard, offering **13** different UG Programmes and **8** PG Programmes.
- Courses are offered in modular form, but there is no choice between modules in courses. All modules are rigid and cannot be exchanged with modules in another course.
- No credit transfer or accumulation of credit facility is available.
- Lateral and Vertical Mobility within and across programmes and courses is not allowed at the moment.

Therefore, the only option to contribute to flexibility and employability is by starting enrichment courses which opportunity is fully utilized by the institution.

1.2.4 Admission to Self-financed Programmes

Direct admission is provided by the college to self-financed UG programmes fulfilling the norms of admission laid down by the Government and the University. In certain PG programmes like MSc Biotechnology, MCJ and MSW admission is based on the entrance examination marks (for 50% seats by the University and for the rest by the management).

Fee Structure of Self-financed Programmes Fixed by the University

Sl. No.	Programme	Fees in Rs.	
		Self Financing	Aided
1.	BCA	Rs. 25000 p.a.	Rs. 1000 p.a.
2.	BCom (Computer Applications)	Rs. 15000 p.a.	Rs. 1000 p.a.
3.	BBA	Rs. 10000 p.a.	Rs. 660 p.a.
4.	MCJ	Rs. 17500 p.sem	Rs. 1800 p.a.
5.	MSc (General Biotechnology)	Rs. 32000 p.sem	Rs. 1800 p.a.
6.	MSW	Rs. 12500 p.sem	Rs. 1800 p.a.

In addition to the above, as laid down by the government, students of the aided programmes have to pay the following fees as well:

Sl.No.	Fee	UG	PG
1.	Special Fees	Rs. 600	Rs. 675
2.	Caution Deposit	Rs. 360	Rs. 600

SC, ST and OEC students of both aided and unaided programmes are eligible for fee concessions and stipend as the case may be. Scholarships, free-ships and bursaries are available for deserving students irrespective of caste or community.

- There is no difference in the curriculum of self financing and aided courses either at the UG level or at the PG level.

- Fee structure of Self-financed Programmes is fixed by the University.
- The teachers of self- financed programmes have the same eligibility criteria as that of aided programmes; but NET/PhD is not compulsory.
- Salary for teachers of self-financed programmes are fixed and paid by the Management with yearly increments.

1.2.5 Additional Skill Oriented Programmes, Relevant to Regional and Global   Employment Markets:

A number of skill oriented programmes have been formulated; resembling the UGC sponsored Add-on courses, to equip students for regional as well as global employment markets. **36** such Self Supporting Certificate Programmes are conducted in this college by various departments. The details of the same, along with beneficiaries are given in 1.2.1.

Apart from the above, we also arrange special sessions by experts in the following skills which add further to the students' employability potential:
(a) Communication skills (b) Leadership skills (c) Team building skills (d) Time management skills (e) Interpersonal skills (f) Presentation skills and (g) Computational skills.
Besides this, our HRD cell conducts a variety of skill development programmes and facilitates academia-industry interface. Beneficiaries of such programmes are the final year UG and PG students, who are ready to step out to the competitive world in pursuit of an employment.

1.2.6 Flexibility of Combining the Conventional Face to Face and Distance Mode of Education for Students to Choose Courses/Combinations of their Choice

The affiliating University does not provide us with the flexibility of combining the conventional face to face and distance mode of education for students to choose courses/combinations of their choice. But our faculty members are keen in giving guidance to our students to register for on-line programmes offered by other national/foreign universities, so that by the time they complete their degree course, they can have one more degree of their choice offered by a different university.

1.3 Curriculum Enrichment

1.3.1 Efforts of the Institution to Supplement the University's Curriculum to Ensure that Academic Programme and Institution's Goals and Objectives are integrated

The following measures are taken by the institution to ensure that academic programmes and institutional goals are integrated:

- Additional Modules tagged on to each of the UG Programmes offered by this institution: Twenty such modules are offered by the college. The additional modules offered are calculated to vocationalize the programme so that they differ largely from the same kind of programme offered by other colleges affiliated to our University.

- Personality enrichment modules: The college work schedule sets apart an additional hour every working day and a major share of this time is for sessions related to the personality enrichment of the students.
- HFC programmes offered to the students provide modules of research orientation, employable and soft skills along with a thrust on the values of family and the institution of marriage.
- The Institution contributes to nation building through the Service Units like NCC, NSS, CSS, AICUF, CASP and other social service oriented units like Darsana Family Counselling Centre and Social Work Centre operating on the campus. The students are also trained in technological and entrepreneurial skills.
- The focus on women empowerment programme seeks to endow women with a purpose and vision, inculcating in them core universal values of pluralities and diversities through appropriate campus experiences like invited talks, rallies, campaigns and personality and skill development sessions. The University of Calicut chose the college as 'The Best College in the University' in terms of women development programmes in the year 2011-12.
- Ever since its inception forty-nine years ago, the college had set as its ideal, the formation of individuals deep-rooted in faith, principles and values. Accepting the University curriculum but supplementing it with value lessons, a Value Education Course was introduced to be followed by every undergraduate student on our campus for three years of their study with a well defined curriculum, examination and even proficiency prizes for adequate motivation.

Value Orientation Sessions

Sl No	Particulars	Number
1.	Sessions taken by our faculty	40
2.	Sessions by resource persons from outside	30
3.	Spiritual enhancement programmes organized	10

- The extension and outreach programmes to the old age homes and orphanages instill a sense of service, generosity and responsibility to the poor, the weak and the needy. NSS, NCC, AICUF, CASP, Women Development Cell and all departments conduct periodical visits to homes for the destitute with the above motive as well as to empathise with the destitute and the needy brethren and abandoned mothers. The celebrations of festivals like Christmas and Onam within the college brings about communal harmony and a sense of unity in diversity.

1.3.2 Efforts made by the Institution to Modify, Enrich and Organise the Curriculum to Reflect the Student's Experiences and to Cater to the Needs of the Dynamic Employment Market

Our curriculum is framed and organized in such a way so as to provide an educational experience of the utmost quality, with strong thrust on employability, flexibility and practice-based learning.

- The curriculum given by the University is enriched by adding to it, skill oriented modules and behaviour forming sessions, in order to transform the students into exemplars for engagement with various businesses and wide range of professions.
- Other techniques used are debates, lectures, discussions, internships, projects, case studies and simulations.
- Student participation in a broad range of field activities, including community service, and internships in business, industry or government as part of their coursework empowers them a lot and enables them to meet the challenges of professional life. The Curriculum enrichment carried out also addresses the issue of the needs of the employment market.
- The mandatory vocational content added to all undergraduate programmes imparted by the institution is the most important of these steps.
- No student walks out of our campus gates on completion of her programme without getting trained in a skill that fits her straight into the job market requirements.

The AVMP (**Audio Visual Media Practice)** course has enabled many of our students to participate in various off campus competitions in film –making and documentaries, and to progress to the level of professionals in the field. The table below shows the number of their creative productions.

Creative Productions/Programmes of Students of AVMP

Item	Short film	Albums/Music/Videos	TV/AIR Programmes
Number	9	8	9

1.3.3 Integration of Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the Curriculum:

Gender: Women empowerment, the key element in the 'Vision' of this institution, is always a point of focus in the delivery of curriculum. The serene and peaceful learning atmosphere in this college campus, motivation from faculty and staff, all the equipment and facilities offered in the campus etc. provide limitless opportunities for the growth and development of women. The Women Development Cell in the campus, which is acclaimed as **the Best in the University** promptly responds to women issues and gives leadership to women empowerment initiatives in the campus and outside. Various programmes are staged and activities undertaken throughout the year to give exposure to the young women in the campus to the issues concerning women such as female abuse, foeticide etc., and at the same time, to create awareness to the limitless possibilities awaiting them. Special days like the International Day for Women (8th March), International Girl Child Day (Jan. 24) etc., are celebrated.

Climate Change and Environmental Education:
This beautiful green campus always reminds its dwellers of the beauty of nature and of their responsibility to preserve it. The slogan, '**Green Campus, Clean Campus'** will linger in the mind and heart of every student who

happens to be educated in this campus. All the departments and associations conduct a large number of programmes round the year.

The department of social work conducted the following studies/activities.

- Awareness programmes were conducted in Balasabha for members of different panchayaths on '*The Environmental Issues And Protection*' by encouraging them to plant trees.
- Attempt was made to create awareness among all the students of the institution about plastic eradication and recycling of paper wastes.
- Provided awareness by poster exhibitions in Athirapilly and Vazhachal, the famous tourist spots in Thrissur District
- Social Action triggered against the Contamination of Chalakudy River by a chemical manufacturing company as a result of a study made by a student - This conscientization process became the People's Movement against the unscientific waste management of chemicals and invited government interference and as a result, chemical waste recycling plants were installed in the company premises.
- 'Save energy' campaign and 'Haritha Keralam' are projects associated with the Government of Kerala.

Human Rights: Initiatives to preserve Human Rights and Women Rights are taken by all, especially by the Department of Social work. The University curriculum is suitably supplemented to integrate these cross-cutting issues into its content in the form of various projects undertaken.

ICT: ICT has become part and parcel of delivery of knowledge and information in this institution. Every department is provided with the LCD, computers and internet connectivity. Training in e-content authoring is also provided to the staff.

- Digital libraries, documentaries, short films, albums, video analysis and power point presentations are some of the efforts of the institution to disseminate knowledge.

1.3.4 Value-added Courses/Enrichment Programmes Offered to Ensure Holistic Development of Students:

Value-added courses/enrichment programmes are offered to ensure holistic development of students by providing moral and ethical values, employable skills, life skills, better career options, community orientation etc.

Moral and ethical values: To foster moral and ethical values among the students, the college has introduced weekly Ethics sessions as compulsory part of the curriculum. The college has introduced this session as constant reminder of value inculcation for the stakeholders of this institution. The subject is mandatory and is treated as seriously as any other curriculum subject with terminal examinations, proficiency prizes and other incentives. This practice has been going on uninterruptedly ever since the inception of the college in 1964. Text books have been prepared for this purpose and from last year the instruction has been transferred into digital format to a considerable extent.

Higher Focus Course (HFC) for Employable and Life Skills: This special Enrichment Certificate Programme is designed to match the global changes in respective fields of academics through subject based research orientation with

equal emphasis on skill development as well as value orientation. Spread over a period of three years that coincide with the Bachelor Degree programme, this special course of 275 hours duration is a compulsory component of all the Degree Programmes offered in this college. The skills imparted range from training for two/four wheelers driving to self defense (Karate). The spectrum of skills thus imparted is useful to the students throughout their life. All the UG Programmes of the college offer a vocational component/module.

Better Career Options: Our HRD Centre does the essential research needed in this regard and suggests the training and job our girls can finally land in. The centre also provides facility for campus recruitment.

- The Gemology course offered enables many of the students opportunities to pursue careers in Jewellery industry
- The AVMP course has helped in developing the skills of the students in making documentaries, short films and albums
- The Communicative English course ensures the acquisition of English language skills for employment
- Students get chances to perform as photographers to film the programmes conducted in the college.
- Some of the students contribute articles, work as columnists and are in the editorial boards of news papers and journals
- The yoga course offered provides a floor to be yoga instructers.
- Career Training Wing operating under the HRD Centre, arranges year long coaching schemes for all advertised posts particularly for the large scale opening in offices of banks and other establishments. Professional trainers are hired for this purpose every year.
- The Centre has year-long coaching schemes also for Civil Service and NET/JRF examinations. The total number of students making use of these schemes exceeds five hundred every year.
- Career information Seminars by experts drawn from various domains form another source by which we inform and enlighten our students on various opportunities open to them

Community Orientation: By establishing and maintaining strong partnerships, this institution has turned itself into a strong and positive voice and support for the community.

- The Social Work Centre started by this institution to provide employment to poor women in the locality plays a pivotal role in empowering the local women and housewives by providing training in flower making, tailoring, book binding, fabric printing, computer skills, fashion technology etc.
- Our work for the poor, depressed, handicapped and the orphans is primary among our commitments to the society.
- The college has a number of units with fixed number of hours working for the community like the CSS, NSS, NCC, AICUF and CASP. Last year, the NSS units built three houses for three homeless families, an endeavor that was acknowledged by the University. Seven blood donation camps

were conducted within a span of three years with about seven hundred donors which was appreciated by the IMA.

- For the next academic year, which is the Golden Jubilee Year of the College, construction of **50** houses is the set target with a budget of one crore. At this juncture, it is worth mentioning that in the Silver Jubilee year we could construct for the poor, **25** houses.

- In the year 2012, a new Trust was inaugurated in honour of the Founder Principal, Rev.Sr.Mary Franco Memorial Educational and Charitable Trust.

- This is an institution run by the Holy Family sisters, whose charism, the liberation of the poor and the welfare of the families, is inherited from the Foundress Mother Mariam Thresia. Hence community oriented education is something that we breathe in our day to day life in the campus. Twenty percent of all sources of income of the Holy Family Community (**Rs. 43,66,730/-** during the last five years) go to the poor. This kind of culture automatically gets mingled with the very atmosphere of this campus.

- Students of every department make annual visits to the homes of the destitute, the poor, the handicapped, the mentally retarded, the aged and the abandoned. For several years now, they have also been sharing meals with the inmates of these homes, during celebrations held in connection with national and religious festivals.

- The faculty members of the college make it a point to visit the homes of all their students to strengthen their relationship. Students from the marginalized sections of society are identified and helped in a substantial manner, ranging from financial help for study and treatment to marriage and house construction.

1.3.5 Use of the Feedback from Stakeholders in Enriching the Curriculum:

Integrating Stakeholder Feedback into Curriculum Development and resulting revision is a process in which we have only a partial participation as the Curriculum is ultimately designed and developed by the University to which this institution is affiliated. However, some of our faculty members have been chosen as members of the various bodies connected with the framing of the curriculum and they actively participate in the proceedings of the curriculum framing bodies and make significant and meaningful contributions. In that process, the faculty take into account the views and interests of the various stakeholders connected with University education, namely, students and their parents, faculty and administrative staff, the society, the alumnae and the employer segments.

- In PTWA meetings, parents voice what they feel about the education provided by the institution. Our faculty takes note of their opinions to be voiced in the curriculum framing deliberation sessions. The local community's needs and aspirations are taken into consideration in the development stage of the institution and in determining the course/programme options offered in this institution.

- **Feedback from Employers of our Alumnae** gives us ample information regarding their strengths and weaknesses, in the light of which we can provide facilities for acquiring additional skills to our present students. For

example, we have introduced a compulsory component of computational accounting into the Commerce and Management undergraduate programme and an Add-on programme in Communicative English to the first year students.

1.3.6 Monitoring and Evaluating the Quality of Enrichment Programmes

The quality of the enrichment programmes is monitored by the IQAC by periodic interaction with the participants and by checking the regularity of student attendance and participation. The assessment is made analyzing the feedback we get from the stakeholders on these two points.

More than 25% of our students have been employed during the last four years. We collect the **employer feedback** on a good number of them and based on analysis and evaluation of the scores, judge the quality of our enrichment programmes.

1.4   Feedback System

1.4.1 Institutional Contribution to the Design and Development of Curriculum Prepared by the University

Teachers of this college who are members of the University Board of Studies have played a very dynamic role in framing the syllabi of certain courses of the University. We invite the Vice Chancellor, Pro-Vice Chancellor and Registrar to the campus and conduct interaction sessions with faculty and the students. Such occasions are used to give direct feedback on our Curriculum and give suggestions for improvement. As mentioned earlier, for PG Diploma in Cryptography, MSc in Cyber Security and Add-on courses imparted by this institution, the curricula are designed by our own departmental faculty and approved by the University.

1.4.2 Mechanism for Feedback and Communication of Stakeholder Feedback on Curriculum to the University

This institution has had an elaborate system of obtaining feedback from all kinds of stakeholders on all parameters for two decades. The feedback thus obtained is communicated to the University through our faculty who are members in various curriculum committees of the University.

The Principal's Conferences summoned by the University also discuss college level feedback which the Registrar readily takes note of.

1.4.3 Courses Introduced by the Institution During the Last Four Years
Rationality in Introducing a New Course

While choosing programmes we keep in mind institutional goals and objectives, and prioritize those that would do justice to them. Needs of women along with requirements of the nation and the society are the two considerations that weigh with us the most when we think of introducing a new course. The table below shows some of the important courses started by the Institution during the past four years.

New Courses Introduced

Sl. No	Course	Coordinating Department	Year of Commencement
1.	BCom with Computer Application (Self-financed UG Course)	Commerce	2012-13
2.	BCA (Self-financed UG Course)	Computer Science	2012-13
3.	PhD in Commerce	Commerce	2012-13
4.	PhD in English	English	2012-13
5.	PhD in Chemistry	Chemistry	2010-11
6.	MSc Cyber Security	Mathematics	2009-10
7.	Career Oriented Course in Yoga & Fitness Management (UGC Add-On Course)	Physical Education	2009-10
8.	Career Oriented Course in Gemology (UGC Add-On Course)	Chemistry	2009-10
9.	Communicative English (UGC Add-On Course)	English	2008-09
10.	PG Diploma in Cryptography as UGC Innovative Course	Mathematics	2007-08

Among the new courses started during the period, **MSc in Cyber Security** which was sanctioned as an **Innovative Course in Emerging Areas** by the UGC in the year 2007 was fully designed by the Mathematics Department of this institution. It is worth mentioning here that, Cyber Security is now recommended as a subject for UG and PG in all affiliated colleges by the Task Force on National Security System constituted on the direction of the Cabinet Committee on Security and is intimated to all Universities in India by a special order of UGC-D.O. No.14-7/2009(CPP-II) dt. 16/01/2013.

Criterion II
Teaching-Learning and Evaluation

St.Joseph's College with an objective of empowering young women through higher education, places emphasis on facilitating creation of learner-centric environment conducive for quality education and faculty maturation with the required knowledge and technological skills for participatory student-centered teaching learning process.The success story of the past forty nine years as a renowned educational institution offering value based education par excellence for the holistic development of young women, attracts girls from various strata of the society to this institution.

2.1 Student Enrolment and Profile

Student enrolment is almost 100% in all programmes offered. While uncompromising on quality education the college imparts the motto Light, Life and Love, provides individual care, and special concern for the underprivileged, catering to students from all classes of society.

2.1.1 Publicity and Transparency in the Admission Process

The reputation earned by the College in a span of five decades as one of the best colleges in the University attracts studious and illustrious students to its portals. This institution makes use of two significant tools to ensure wide publicity and transparency in the admission process: the **prospectus** published by the institution afresh every year and the **college website** updated regularly. The announcement of the various dates of the stages of the admission process by the University and the appearance of the notifications in the newspapers is the main source of publicity involved in the admission process. The prospectus published by the institution afresh every year is also a significant tool to ensure publicity. Advertisements in the regional and national newspapers are made in the case of self financed courses as well as rare programmes like MSc in Cyber Security. During parents-meets, attempts are made to create awareness among them on the basic principles followed by the institution in admissions.

Hundred percent transparency is ensured in the admission process since the college strictly adheres to the rules and regulations formulated by the government and the University for aided affiliated colleges. The institution also follows the guidelines regarding reservations to the backward classes unfailingly. We announce in our regularly updated website the entire process of admission. In order to ensure transparency, the list of students containing three times the number of available seats under each category in the order of their index marks is exhibited on the notice board and also in the college website on the date prescribed by the University. Interview cards are sent to the applicants concerned and admissions are made in the order of merit as per rules governing the interview for admission. The starting and closing date of admission are also fixed as directed by the University. University and the government intervene in case of violation of concerned rules, but never, till this date, the procedures followed here

have invited such interventions.

2.1.2 Criteria Adopted and Process of Admission

i)   UG Admissions: The admission process is carried out   keeping in mind principles of justice, equity and inclusiveness by strictly adhering to the Government and University norms. Admission to all the programmes is governed by an agreement signed between the Government and the Private College Managements years ago.

The   steps followed for selection process are as follows:

1) The duly filled application form for UG admission should be submitted in the college office on the specified date.
2) The first provisional selection list prepared as per University norms is published on the website and on the notice board.
3) The candidates are informed through interview cards.
4) During the interview all the necessary documents and mark list are verified and the candidate is admitted after payment of fees.

The percentage-wise allocation of seats is shown in the table below.

Percentage-wise Allocation of Seats

Sl. No.	Details of Quota	Percentage
1.	Open Merit, Physically Handicapped and Sports	50
2.	SC/ST Reservation	20
3.	Community Reservation	10
4.	Management Quota Reservation	20

ii) PG Admissions: The key criterion for admission to general courses is the percentage of marks obtained in the relevant subject at the qualifying degree examinations. University has fixed a minimum percentage of marks for admission to PG programmes with usual relaxations for backward class students. Due weightage is, however,   given to students who have served in NCC/NSS or have won laurels in the University level arts and sports meets. The selection process is similar to that of UG.

However, admission to certain PG programmes for which qualifying degree is multidisciplinary, is governed by the scores obtained by the candidates in the Entrance Examination and/or group discussion conducted by the University. This college has the following programmes coming under this category:

Programmes which Require Entrance Test

Sl. No.	Programs	Seats
1.	Master of Social Work (MSW)	20
2.	Master of Mass Communication and Journalism (MCJ)	15
3.	Master of Science (Cyber Security)	20
4.	Master of Science (Biotechnology)	12

Admission under management quota is controlled by a committee appointed by the management for this purpose. Economic backwardness of the applicant is also

considered along with her score in the qualifying examination while admission is recommended. Even for admission under this quota, academic merit of the student is ensured by fixing a minimum percentage of marks in order to be considered for admission. For all the self financing courses, 50% of seats are reserved on merit basis and the rest is for the management to fill. For certain PG courses the University conducts an entrance test for the PG students. After the exam, the list of students who have passed and have opted for the institution will be handed over by the University for admission in the merit quota.

As the core mission of this institution is to empower and enlighten women, all seats of all programmes in the college are reserved for women candidates. Men are considered only for doctoral research. Admission to all programmes is monitored by the Admission Committee of the respective departments.

Mandatory Interview: No candidate is ever admitted to any of the courses without an interview held in the presence of the candidate's parent/guardian. Admission interview is the occasion when the student is counselled on the choice of the programme that suits her and also on what is expected of her in the campus in terms of character, conduct and academic performance.

For **PhD programmes,** students with JRF can apply directly through the college Research Centre on merit basis. Other candidates appear for the entrance exam of the university, and those who clear the test are allotted research centres according to their option and merit. Student, after consulting with the guide, develops a research proposal and synopsis and then appears before the Interview board which comprises an external expert, research guide and the head of the institution. The selected candidates are admitted according to the University norms.

2.1.3 Minimum and Maximum Percentage of Marks for Admission in Comparison with Other Colleges

The college is able to attract good students to the campus, with its vision of empowering women students. The table below shows the maximum and the minimum marks of students at entry level for every UG and PG programme, in comparison with the nearest well performing college(s).

Undergraduate Programmes

Sl. No.	Programme	Year	Entry Level			
			Our College		Nearby College	
			Max %	Min. %	Max %	Min %
1.	Biotechnology	2011-2012	96	65	90	65
		2010-2011	81	60	80	61
		2009-2010	89	61	88	63
		2008-2009	82	62	83	63
2.	Business Administration (Self Supporting)	2011-2012	87	51	87	50
		2010-2011	90	63	89	55
		2009-2010	85	56	80	52
		2008-2009	87	60	84	53
3.	Chemistry	2011-2012	94	77	93	77

Sl. No.	Programme	Year	Max %	Min %	Max %	Min %
		2010-2011	92	75	92	77
		2009-2010	92	77	93	77
		2008-2009	95	71	93	70
4.	Commerce	2011-2012	95	54	97	53
		2010-2011	96	72	93	71
		2009-2010	98	81	96	79
		2008-2009	97	63	97	61
5.	Economics	2011-2012	96	64	94	62
		2010-2011	93	67	90	65
		2009-2010	95	66	91	62
		2008-2009	94	64	92	62
6.	English	2011-2012	93	58	91	53
		2010-2011	89	53	89	52
		2009-2010	90	55	92	52
		2008-2009	87	52	86	53
7.	History	2011-2012	88	67	85	64
		2010-2011	91	64	85	60
		2009-2010	84	65	80	60
		2008-2009	77	66	70	60
8.	Mathematics	2011-2012	96	78	92	74
		2010-2011	92	59	90	57
		2009-2010	91	78	88	70
		2008-2009	92	66	89	60
9.	Physics	2011 – 2012	90	85	89	80
		2010 – 2011	91	79	91	80
		2009 – 2010	93	62	95	70
		2008 – 2009	89	71	90	75
10.	Zoology	2011-2012	91	70	87	65
		2010-2011	89	62	89	62
		2009-2010	87	71	82	71
		2008-2009	83	63	84	61
11.	Botany	2011-2012	86	68	80	72
		2010-2011	83	68	84	64
		2009-2010	93	40	87	70
		2008-2009	85	52	86	68

Postgraduate Programmes

Sl. No.	Programme		Our College		Nearby College	
			Max %	Min %	Max %	Min %
1.	Biotechnology (Self	2011-2012	83	60	80	60

	Supporting)	2010-2011	88	61	84	63
		2009-2010	95	65	93	67
		2008-2009	85	64	86	60
2.	Chemistry	2011-2012	91	88	97	91
		2010-2011	92	89	94	91
		2009-2010	95	90	96	92
		2008-2009	93	89	94	91
3.	Commerce	2011-2012	80	62	82	61
		2010-2011	82	65	80	63
		2009-2010	75	51	73	51
		2008-2009	79	58	79	59
	Cryptography/Cyber Security (Innovative Programme)	2011-2012	90	65	NA	NA
		2010-2011	80	55	NA	NA
		2009-2010	85	60	NA	NA
		2008-2009	82	75	NA	NA
4.	English	2011-2012	75	53	70	54
		2010-2011	80	55	75	53
		2009-2010	85	60	69	51
		2008-2009	71	53	69	51
		2008-2009	69	51	68	52
5.	Mathematics	2011-2012	96	93	92	85
		2010-2011	97	94	93	80
		2009-2010	98	93	91	83
		2008-2009	97	85	90	80
6.	Social Work	2011-2012	70	55	68	56
		2010-2011	81	56	76	50
		2009-2010	82	56	80	54
		2008-2009	72	50	76	52
7.	Mass Communication and Journalism	2011-2012	82	55	80	55
		2010-2011	84	55	80	60
		2009-2010	80	60	78	55
		2008-2009	85	55	80	55

2.1.4 Mechanism in the Institution to Review the Admission Process and Student Profiles

- Every year, the first Evaluation and Planning Meeting immediately after the admission, reviews the process, and the merits and demerits of the system followed.
- The Admission Committee of the year briefs the faculty and staff on the admission process and points out any difficulty experienced in the process. The meeting also suggests ways and means by which the process can be

improved. The suggestions are discussed before they are adopted for implementation.

Outcome: One significant suggestion that came up during the past meetings was the introduction of online application form, which has already been introduced. The next was that the preparation of the whole admission list is to be digitalized, which has been executed through software developed by the Computer Science Department of the College. To offer the pure science programmes with a vocational content added on to it was yet another suggestion which has been implemented successfully.

2.1.5 Admission Policy of the Institution and its Student Profiles Demonstrating the National Commitment to Diversity and Inclusion

As an aided, affiliated college, the admission policy of the institution is totally dictated by the policies of the government and the University as per the regulations for the direct pay agreement between the Government and the Management. Our attempt is to infuse more of diversity into the admission process without compromising our quest for excellence.

SC/ST/OBC candidates are given 20% seat reservation and due relaxations in the minimum percentage of eligibility marks as the government dictates.

20 percent seats set apart under the management Quota are also distributed to increase the access to **the economically weaker sections, the differently abled and the minority communities**. Thus, the institution fully translates the national commitment to diversity and inclusion into reality. This being a women's college, **all the seats in the college are reserved for women** students except in the research centers where men are also admitted. Differently abled students are always given special care in this institution. Classes with such students are usually held only on the ground floor. **Minority students** are helped to procure various scholarships earmarked for them. 10% seats are reserved as per University and Government norms for students belonging to the community that runs the college.

Student Profile Demonstrating Commitment to Diversity and Inclusion

Category	Number
SC/ST	249
OBC	442
Differently Abled	07
Minority Communities	472
Economically weaker sections (BPL)	564
Others	125

Economically-weaker sections are helped in all ways possible by the college as well as by the departments. They are also helped to procure stipends and scholarships of various kinds as per Central and State Government rules. Poor Students Aid Fund of the College is a great blessing for them. Most of the departments generate their own funds to help the economically weak in various ways. Furnished below is a list showing the details of funds each department collected and distributed to the economically weak students during the last four years:

Contributions by the Departments to Economically Weak Students

Department	Collec-tion Rs.	Contribu-tion Rs.	Purpose
Biotechnology	2200	2200	Fee payment
Botany	35115	35115	Construction of house (student), Fees of a nursing student, and Study tour and study materials
Business Administration	50910	49910	Purchasing books, Admission fee, Tour expenses and Medical expenses
Chemistry	55000	55000	Fees and purchase of books
Commerce	95755	91000	Purchasing books, Mother's treatment, Admission fee and Tour expenses, Medical expenses
Economics	83615	83615	Financial and Medical Aid, Higher Education and Marriage Fund
English	77400	77400	Study Tour, Educational Material, Treatment of father, Marriage Aid
History	5740	5740	Study, Medical help and Fees
Mathematics	38850	38850	Housing project, Picnic, Educational purposes
Physics	18000	18000	Purchase of books, Admission fee, Tour expenses and medical expenses
Zoology	14740	13470	Study tour, books and record sheets, Treatment
Total	477332	470300	

Besides this, **Rs. 43,66,730** is spent by the management for the poor in the college and in the locality during the post re-accreditation period. Apart from this, in the academic year 2012-13 a Trust (Reg. No: 214) is instituted in the name of the Founder Principal, Sr. Mary Franco, which aims at helping the financially backward students. The number of beneficiaries receiving financial support from various agencies is as follows:

Number of Beneficiaries Receiving Financial Support

Agencies	No. of beneficiaries
Central Government	89
State Government	251
College	810
Other Agencies	43
Total	627

Thus, the institution fully translates the national commitment to diversity and inclusion into reality.

2.1.6 Programmes Offered During the Last Four Years and the Trends for Increase/Decrease and Actions Initiated

As one of the leading colleges in the University of Calicut, there is always high demand for seats in this college. The table given below shows the ratio of number

of applications received to available seats.

Ratio of Number of Applications Received to Available Seats

Programmes	Year	Number of Applications	Number of Students Admitted	Demand Ratio
UG				
BBA (Self Financing)	2011-2012	99	33	3:1
	2010-2011	137	36	4:1
	2009-2010	140	40	4:1
	2008-2009	109	30	4:1
Biotechnology	2011-2012	351	29	12:1
	2010-2011	270	22	12:1
	2009-2010	366	30	12:1
	2008-2009	317	16	20:1
Botany	2011-2012	492	36	14:1
	2010-2011	342	36	10:1
	2009-2010	300	36	8:1
	2008-2009	305	36	8:1
Chemistry	2011-2012	850	48	18:1
	2010-2011	833	48	17:1
	2009-2010	704	48	15:1
	2008-2009	596	48	12:1
Commerce	2011-2012	2531	60	42:1
	2010-2011	2538	60	42:1
	2009-2010	1036	60	17:1
	2008-2009	769	60	13:1
Economics	2011-2012	1126	60	19:1
	2010-2011	885	60	15:1
	2009-2010	1175	61	19:1
	2008-2009	769	60	13:1
English	2011-2012	1327	40	33:1
	2010-2011	1211	40	30:1
	2009-2010	883	40	22:1
	2008-2009	1060	40	27:1
History	2011-2012	397	61	7:1
	2010-2011	467	61	8:1
	2009-2010	386	60	6:1
	2008-2009	500	60	8:1
Mathematics	2011-2012	634	48	13:1

	2010-2011	505	48	11:1
	2009-2010	750	48	16:1
	2008-2009	453	48	9:1
Physics	2011-2012	745	40	19:1
	2010-2011	524	40	13:1
	2009-2010	791	40	19:1
	2008-2009	485	40	12:1
Zoology	2011-2012	523	41	13:1
	2010-2011	358	41	9:1
	2009-2010	416	41	10:1
	2008-2009	323	41	8:1
PG				
Biotechnology	2011-2012	Merit Seats Allotted from University	12	NA
	2010-2011		8	
	2009-2010		7	
	2008-2009		11	
Chemistry	2011-2012	Single window Admission	12	NA
	2010-2011	78	12	7:1
	2010-2010	131	12	11:1
	2008-2009	96	12	8:1
Commerce	2011-2012	Single window Admission	15	NA
	2010-2011	124	15	8:1
	2009-2010	130	17	8:1
	2008-2009	87	20	4:1
Cryptography/ Cyber Security	2011-2012	Merit Seats Allotted from University	4	NA
	2010-2011		9	
	2009-2010		15	
	2008-2009		3	
English	2011-2012	Single window Admission	20	NA
	2010-2011	79	17	5:1
	2009-2010	100	18	6:1
	2008-2009	92	17	5:1
Mathematics	2011-2012	Single window Admission	20	NA
	2010-2011	505	20	26:1
	2009-2010	750	20	38:1
	2008-2009	453	20	23:1

Social Work	2011-2012	Merit Seats allotted from University	16	NA
	2010-2011		14	
	2009-2010		18	
	2008-2009		18	
Mass Communication and Journalism	2011-2012	Merit Seats allotted from University	6	NA
	2010-2011		8	
	2009-2010		7	
	2008-2009		7	

The rise in the number of Engineering Colleges in the State in general and in the vicinity of this college in particular, has tended to bring in students who have genuine aptitude for teaching/research in Pure Science subjects, Humanities and Commerce which also provide opportunities in the sectors of Banking, Insurance and other Government/non-Government organizations. Consequently St.Joseph's college has continued to have an impressive demand- seat ratio.

We have students aspiring for teaching profession in schools and colleges, some who want to be professionals in banks and IT companies and some interested in research fields. They are attracted by the ideal teaching learning atmosphere in the campus.

2.2 Catering to Diverse Needs of Students

The institution has always shown keen interest in catering to the diverse needs of students. Since the institution stands for empowering women, the holistic development of girls is taken up as a special mission.

2.2.1 Differently-Abled Students

The authorities of the institution have always shown a favourable attitude to differently abled students by providing them facilities in the college as well as in the hostel. The institution strictly follows all government instructions facilitating easy and assured admission of the differently-abled students in all the courses. They are given special guidance and counseling by the Career Guidance Cell functioning in the college which directs them to be gainfully employed. The institution has already organized a special enabling unit for the differently-abled with an IQAC member as coordinator to look into the all-round development and welfare of these students. The enabling unit undertakes the following special functions:

1. Counseling the differently-abled students on the types of courses they could study at this higher education centre
2. Ensuring admission through the management as well as reservation quota
3. Helping the differently-abled students in obtaining all sorts of special concessions and relaxation as students and citizens (ex: increase in exam time, help of a scribe etc.)
4. Assessing the educational needs of differently-abled persons enrolled to determine the types of assistive devices to be procured- Books under Brailie system, Wheel chair etc. made available

5. Providing special arrangements in the college for their mobility and independent functioning, addressing the accessibility related issues as per the stipulations of Persons with Disabilities Act 1995, and ensuring that all structures as well as future construction projects in the campus are made disabled-friendly, the auditorium, Indoor stadium, canteen, seminar hall and class rooms are on the ground floor itself, providing easy access for them, Ramp way, rails and special toilets also provided

6. Observing the World Disabled Day, in the college and also in the Homes for the Disabled in the district, in order to create awareness about the capabilities of differently-abled persons

7. Conducting the 'Blind's Orchestra' every year in the college auditorium and raising funds for the blind brethren, the effort recognized this year by the 'Award for Best Service' by the Indian Blind Association

2.2.2 Assessment of the Students' Needs before the Commencement of the Programme

The admission counseling session conducted by the department concerned to which the student has applied is the first stage of **assessing the needs and skill of the student.** We have a formal mechanism also to assess the skill and knowledge of the students at the beginning of the course. The method used is the Post Entrance Test (PET), a diagnostic test administered soon after admission, to gauge the capabilities of students entering a programme. An indirect method like students' self-assessments, inventories of prior courses or previous professional experience also come to our help in this regard. On the basis of the result of PET and other evaluations, students are categorized into advanced learners, slow learners and average learners.

2.2.3 Strategies Drawn and Deployed to Bridge the Knowledge Gap of the Enrolled Students

This institution offers an orientation module of a week or two before the students are actually made to confront the syllabus of the programme they have been admitted to. The module serves as a bridge course between the syllabus of the qualifying programme and the programme they have been admitted to. At the end of the module, the students undergo PET. Besides helping the student to bridge the knowledge gap, the score of the student in the test will be an indicator of the strength and weakness in the subject she has opted for.

Slow learners, SC/ST, OBC, minority and economically backward students are given remedial coaching after class hours, utilizing the UGC funds. The college conducts a number of UGC sponsored Add-on courses. Enrichment courses like Computer Literacy, Spoken English and Yoga are also provided. Communication skills in English are given importance in the Bridge course in order to help students from non-English medium schools of rural areas and from backward classes.

Outcome: The bridge course serves to dispel the feelings of apprehension and diffidence, if any, and makes the fresh students feel welcome and at home in their

new institution. PET enables the teachers to understand the performance level and the academic potential of the freshers. The remedial coaching for the disadvantaged groups of students helped to improve their performance level and lift them to be on par with the better performers. The enrichment courses went a long way in providing life skills, boosting their confidence level and making them competent to face the global challenges in the job market.

2.2.4 Sensitization of Staff and Students on Issues such as Gender, Inclusion, Environment etc.

Gender, inclusion, environment etc., are devotedly addressed in this institution on all possible occasions. The college being a Women's College, gender is always focused in all programmes and activities of the college. There are separate centers functioning in the campus for sensitization and promotion of right attitude in all these issues. Organizations like Women Development Cell, NCC, NSS, CSS, AICUF and all departments especially Social Work, take up these issues. Workshops, seminars, talks, poster exhibitions, street plays, films and multi-media campaigns are regularly held by the centers in the campus for mass sensitization. 67 such programmes have been organized in the campus during the period under review.

The University curriculum itself is suitably designed to integrate these cross-cutting issues into its content. By appropriate campus experience provided by the remarkable observance of commemorative National and International Days earmarked for these social issues and phenomena, the institution leads the student community to reflect on issues of this sort. They are made aware of the hazards threatening the surroundings and the society, and trained to become citizens of courage and compassion who can transform and make the world around them a better place to live in.

2.2.5 Special Educational / Learning Needs of Advanced Learners

The institution takes special interest in identifying and promoting the advanced learners from the very beginning. The Academic Excellence Committee plans the year long activities with specific concentration on teams of advanced learners of UG/PG classes. They are provided motivational talks and training by resource persons from outside as well as inside the institution which is meant to encourage them to strengthen the skills to become effective participants in their own learning Process. The student thus learns:

- To become a life-long learner
- To strengthen one's own motivation
- To promote peer communication
- To promote creativity and attention to detail in every academic endeavor leading to research culture and aptitude
- To build student-teacher relationships
- To promote spirit of enquiry, discovery and active learning
- To induce responsibility for one's own learning
- To foster critical, creative and proactive thinking

- To be open, dynamic, trusting and respectful
- To promote collaboration, communication and peer approval among students in solving hands-on problems

The following table shows programmes floated for advanced learners

Programme for Advanced Learners

Sl.No	Date	Resource Person	Topic
1	16/03/12	Dr. Rani Paul Ukkan, Department of English	Communicative and Writing Skills
2	29/02/12	Dr. Radha Muraleedharan,Retired Faculty, Department of English, SJC	Soft Skill Acquisition
3	23/07/11	Mr. Mohan Nair, AICWAI CEO, Edyounet, Cochin	Memory Enhancement Technique
4	17 -20/10/11	Ms. Mary, Faculty in Psychology Vimala College, Thrissur	Stress Management
5	27/07/10	Shri K. Mukundan,Motivational Speaker	Health and Success
6	16/11/10	Fr. Roy Vadakkan (Project Manager Jyothy Engineering College, Cheruthuruthy	Orientation Class
7	19/08/09	Prof. Babu C J (HOD , Department of Physics, St. Thomas College Thrissur)	Motivational Talk
8	03/02/09	Dr. Sr. Anee T.K., Dr. Mangalambal, Dr. Geetha K V and Ms. Alphonsa Paulson (St.Joseph's College, Irinjalakuda)	Series of Inspirational Talks
9	14/01/09	Dr Sr. Rosa K.D., Vice Principal & Reader in Commerce	Orientation Class
10	05/11/08	Ms. Alphonsa Paulson, Head, Department of Zoology	Orientation Class
11	22/01/08	Lt. Dr. Jacob George	Adolescent Goal Setting
12	09/01/08	Dr. P.S. Radha, HOD, English Department	Advanced Learners – Talk

The success of the method has been substantiated by a kind of positive transformation in the advanced learners in the following ways.

(a) attaining higher grades (b) attaining more academic honors (c) developing superior intellectual curiosity (d) developing creativity and leadership skills (e) awareness of capabilities which led to high achievement (f) developing objectivity and research aptitude.

The programmes for the advanced learners have led to an increase in the percentage of marks scored by them. The rate of student progression to higher education and employment is on the rise. During this period a good number of students have been selected as Assistant Professors in various Higher Educational Institutions.

2.2.6 Collection, Analysis and Use of Data and Information on the Academic Performance of the Students at Risk of Drop Out

This institution has an efficient system of collecting, recording, analyzing and communicating data and information regarding the academic performance of each and every student.

- After the internal exams, each subject teacher hands over the mark list to the class teacher. Class teacher prepares the consolidated mark list and the progress report and evaluates the student performance.
- Students are graded as advanced, average and slow learners. Advanced and slow learners are given special care and motivational/remedial classes. Others are encouraged to do better.
- Marks obtained in each semester are compared with marks of Class X and XII. In case of negative variation, special attention is paid to those students.
- On the PTWA Day, parents are expected to meet the teachers and in the presence of parents, teachers communicate and evaluate the performance of the student. This brings about a positive change in the performance of the students. Parents sign the Progress Report as well.
- The decline in the attendance percentage of the students reveals any chance for drop out. Class teachers visit the houses of such students, help them and   provide them facilities for improvement. Financially weak students are given help from the PTWA Fund or granted scholarship from other sources.
- **Effective tutorial and mentoring system function in the college.** Tutors take note of students who are probable drop outs owing to low performance and unfavorable social, physical or economic conditions like disadvantaged social positioning, physical or learning disability and economic backwardness. Such students are then taken care of by the mentor faculty concerned in every possible way and are mentally and materially prepared to continue on the rolls of the college. The mentor goes through her records and identifies the reason for the student's lapses and appropriate action is taken to ensure improved performance. As the mentor is expected to visit the house of the student under his/her mentorship, (a unique mission undertaken by this Institution) the real situation of the student never escapes the teacher's observation.
- This institution's permanent mechanism to monitor the academic performance of every student throughout the course begins with the PET soon after the admission and continues to the end of the course through a continuous process of evaluation of the various examination results of the students maintained systematically in a progress report form.   However, the data relating to the students at risk of drop out are analyzed specially by the faculty mentors concerned at the appropriate time and necessary help is provided to urge the student to continue her studies. The few who happen to discontinue due to marriage are encouraged to join the next session and continue the study.

Measures for the betterment of Slow Learners

The measures adopted to improve the performance of the slow-learners during the year are furnished below:

1. Students are divided into groups of three. Each group is given to individual teachers for guidance and supervision.
2. Special test papers. Teachers help them to evaluate their own answer paper by preparing the scheme of evaluation.
3. The class teacher finds time to unearth the hidden potential in the students and to promote extra-curricular activities.
4. Regular test papers are conducted and students getting marks below 50% will be considered separately in order give on them more attention.
5. Teachers visit houses of weak students and understand their family situations in order to help them to overcome their difficulties.
6. Question bank is supplied to the weak students which help them to write answers properly.
7. Motivation classes for the slow learners by psychologists and academic counselors are arranged.

The **'Each one teach one programme'** organized in every class under the guidance of the class teachers, helps the slow learners to improve their learning, with the help of their own classmates who fall under the category of advanced learners.

The progammes for slow learners have resulted in a marked increase in the pass percentage of students in various courses. More than 95% of the slow learners have passed the University examinations.

2.3 Teaching-Learning Process

2.3.1 Planning and Organizing the Teaching, Learning and Evaluation Schedules

The college plans and organizes the teaching, learning and evaluation schedules in the   following manner.

- The Academic calendar of Calicut University (June to March) is strictly followed in the college. At the beginning of the academic session, year plan of every department, based on that of the university's, is prepared by the departments and after IQAC scrutiny, a compilation of these plans is brought out in a printed book format and distributed among the staff and students for strict compliance.
- The Academic diaries maintained by the faculty ensure compliance of the academic plans by them and the diaries are assessed by Heads of Departments every week. The teaching plan prepared and followed by the members of the faculty prescribed by the university also is examined by the Head of the Department to ensure that the entire portion of the syllabus is covered in full by the concerned faculty. This exercise also includes examinations - both internal and external - and the evaluation of answer-scripts based on evaluation blue print.

- At the beginning of the academic year the Principal convenes a faculty meeting to draw an annual blue-print of the college events and activities and this is positively implemented by the concerned committees entrusted with such responsibilities. The College Handbook distributed free of cost to every student at the beginning of the academic year lists each of these events and activities.
- Our Learning and Teaching Plans during the period 2007-2012 is in alignment with the key objectives of the college for the period, so that the faculty are able to achieve excellence in teaching outcome. It has been built upon the success of the earlier plan in the following ways:
  * Possible improvement in the ratios between the permanent faculty and the students- 29 new permanent faculty appointed.
  * Increase in the number of subject options taught-Started MSc Cyber Security, BCom with Computer Applications and BCA.
  * Changes in teaching modes introducing ICT in a large measure: Use of digital class room, e-content, virtual lab etc.,

Responsibility of implementing, monitoring and reviewing the Plan is vested in the Academic Excellence Committee with the IQAC support.

Key Objectives: In spite of its flexible delivery method our present Learning and Teaching Plan supports the achievement of excellence in education for the maximum professional expertise. Innovation which results at the interface between research and teaching has also been given maximum importance. Workforce planning including the enhancement of faculty profile and effective staff deployment has been achieved for the overall success of the Plan.

2.3.2 IQAC's Contribution to Improve the Teaching –Learning Process

In tune with the goals and objectives of the college the IQAC plays a vital role in the quality enhancement and sustenance of the teaching-learning process by giving timely directions and encouragement to the faculty, staff and students in the following ways:

a. Teaching quality improvement-especially ICT oriented
b. Introduction of innovative pedagogic methodology especially student centric
c. Additions to teaching-learning resources like library, digital data base, e-journal subscription, INFLIBNET, installation of CCTV in library etc.
d. Broad goal orientation for teachers and students through frequent interactions
e. Promotion of research as part of teaching process
f. Skill development as part of teaching-learning process
g. Infrastructure development to support teaching-learning process by introducing teaching aids like lap tops, LCD Projectors, white board and smart board
h. Supporting publications by Departments and the college
i. Seminars led by students using LCD Projector
j. Support to National and International seminars held in the college

IQAC's day-to-day functions on the campus also include support and provision of a conducive atmosphere for the following:

1) Preparation of the year-plan targeted at the timely conduct and quality improvement of various functions of the college, the academic calendar of the college based on the year-plan thus prepared

2) Ensuring that activities entrusted to the Committees are carried out according to the Year Plan

3) Organizing of ICT orientation sessions in order to bring about technology oriented teaching and learning practices

4) Arranging Virtual Lab facilities for faculty and students (subject- wise)

5) Trial of open-book and online examination exercises to transform the conservative patterns and to ensure greater efficiency and efficacy in the testing process and bring out the creativity of students

6) Arranging faculty-student Council interaction on academic and non-academic issues to gauge student- reaction to the day-to-day working of the college

7) Tutorial and mentoring planning including Student Home visits by the faculty

8) Career Path Inquiry in collaboration with Career counseling cell

9) Participatory and supporting role in every event of the campus life including the seminars conducted by various departments assisting functions like preparation of brochures, identifying resource persons etc.

10) Designing of unusual cross-cultural experience to enrich campus life

11) Analysis of feedback on all aspects of teaching and learning at the end of every semester

12) Participation in the academic audit of the functioning of all Departments every year.

13) Providing support structures and systems for faculty and administrative staff

14) Conducting periodic meetings of the Department Heads and discussing ways and means for quality sustenance and enhancement in each department

15) Being vigilant to the timely instructions and directives of NAAC, UGC, State Higher Education Department and the University

16) Conducting annual SWOT analysis, and finding ways and means to overcome the weaknesses by taking up challenges and making full use of opportunities.

17) Encouraging the departments and all the faculty to apply for relevant minor, major projects, National, International seminars and helping them to approach various funding agencies

18) Giving directions to GRACE (Guidance for Research and Assistance for Consultancy and Extension)

19) Publishing an IQAC newsletter, 'Quality Quest' every month for dissemination of information on, quality sustenance and enhancement, among the stakeholders of the college and academic peers

20) Preparation and submission of Annual Quality Assurance Report (AQAR) at the end of every academic year to the NAAC and SSR at the end of the stipulated Period

Outcome

The directions and encouragement given by the IQAC in coordinating the multifarious activities in the teaching, learning process have brought about a new surge in the same. The frequent meetings convened, the plans expounded, the evaluations conducted, and the corrective measures chalked out have created a new awareness about effective and innovative teaching, learning, and evaluation process.

2.3.3 The Support Structures and Systems – Student-Centric Learning

Academic environment of this institution is in a transition stage from teacher centric to student-centric. The lecture model which has the lowest retention value of all teaching techniques is being substituted by other student centric means to a possible extent. In terms of lecture time, teachers teach only around 2/3rd of the time allotted, and for the rest of the time period, the methodology used is group interaction. Participants actively involve and share knowledge and ideas in the process. The method keeps students energetic and creative. Teachers make use of the latest IC Technologies for teaching and interactions.

In certain cases, the teacher provides a video of the lecture which the students watch in their own time and participate in the discussion based on the video watched. Teachers here work as facilitators and encourage student participation in the learning activity. They stimulate discussion, raising questions and emphasizing the value of answers.

The various Interactive techniques practised are: (1) Think/Pair/Share (2) Case Study (3) Incident Process (4) Question- Answer Session 5) Demonstration (6) Group Discussion (7) Poster and Collage making (8) Role play

Methodology: A variety of hands-on activities are administered in order to promote successful learning. The institutional strategies are:

a) Self-managed learning
b) Real-world-problem-based learning
c) Preparing projects, dissertations and reflective articles
d) Writing assignments
e) Interactive sessions involving debates and discussions and studio classes
f) Tutorials for small group gatherings to interact
g) Use of software packages
h) Working in groups or teams

The following table summarizes Student Centered Learning/Teaching Methods followed in this institution:

Student Centered Learning /Teaching Methods

Sl. No	In Non-Lecture format	In Lecture Format
1.	Independent Projects	Buzz groups (short discussion in small groups of two each)
2.	Group Discussion	Cross-overs (mixing students

		into groups by letter/number allocations)
3.	Pyramids/snowballing (Buzz groups continuing the discussion into larger groups)	Rounds (giving turns to individual students to talk)
4.	Peer mentoring of other students	Quizzes
5.	Debates	Power Point Presentations
6.	Field-Trips	Each one teach one
7.	Practical Sessions	Writing reflections on learning
8.	Reflective diaries, learning journals	Student class presentations
9.	Computer assisted learning	Poster Presentations
10.	Choice in subjects for study/projects	Students producing mind-maps in class
11.	Writing Newspaper Article	
12.	Industrial Visit	
13.	Portfolio Development	
14.	Survey	
15.	Manuscript	
16.	Presentations in wall magazines	

Support Structures and Systems Available for Teachers to Develop Skills like Interactive Learning, Collaborative Learning and Independent Learning among the Students are as Follows:

Interactivity consists in 'communication, participation and feedback, and to teach the teachers the art of interactivity, collaborative learning and independent learning, the institution has provided them as support structure and system workshops, short-courses (organized by the institution or sponsored by it), action learning projects and website support. A competent and confident teacher of the 21st century higher education centre has an entirely new and different role in education and the major roles he/she has been trained to play in this institution can be outlined as shown below:

1) Content facilitator, concerned directly with facilitating the learners' growing understanding of course content
2) Technologist, concerned with making technological choices to improve the environment available to learners
3) Designer, concerned with designing worthwhile online learning tasks
4) Manager/administrator concerned with issues of learner registration, record keeping, etc
5) Process facilitator, concerned with facilitating the range of online activities that are supportive of student learning
6) Adviser/ counselor, concerned with counseling the learners to help them get the most out of the course
7) Assessor, concerned with providing grades, feedback, and validation of learners' work; and

8) Researcher, concerned with engagement in production of new knowledge relevant to the content areas being taught

The college maintains a sound motivational ambience and a strong knowledge resource base for the teacher to assume all the above roles. The workplace practices followed by the institution are also appealing. They are always guided towards authentic contexts of teacher development and these contexts offer them ample opportunities to critically assess themselves as teachers. The necessary infrastructure, library and lab facilities, computer and internet facilities, Digital classroom facilities and smart A/C seminar halls, tie up with organizations for use of virtual lab and e-content, training to faculty in development and use of e-content, encouragement for participation and conduct of national international seminars and workshops, maintaining a research atmosphere and instituting research centres, flexibility allowed in class room management and time utilization- all these support systems and structures are available for teachers and students for interactive, collaborative and independent learning. Faculty are encouraged to participate in a variety of training programmes including those planned to enhance their teaching learning capabilities as given below:

Stage-wise Structured Training Imparted to Faculty Development

Sl. No.	Level of Faculty	Objective	Training Form
1.	Beginners	Identification of teaching contexts	Orientation programme
2.	Advanced beginner	Teaching the Process of Technology use in teaching	Refresher courses and Workshops
3.	Competent and Proficient Teacher	Motivate the teacher to innovate and explore	Panel Discussion sessions and Case Studies
4.	Expert and seasoned Teacher	Research oriented advanced explorations	A role model and resource person for the teaching community

Outcome

The support structures provided for the faculty have paved the way for a new awareness about the changing role of a teacher in the 21st century. The experience of the faculty in the use of new gadgets in ICT is fast making them competent to excel in the modern world of technological development.

2.3.4 Nurturing Critical Thinking, Creativity and Scientific Temper among Students

One of the key areas on which this institution has been laying stress ever since its last re-accreditation, is the empowerment of the student community to negotiate challenges the contemporary society poses. To fit into the fast changing global economic environment, every student has to be a life-long learner, and innovator. Critical thinking, creativity and scientific temper are decisive traits that we seek to foster in them through specially designed tests at the college level, as well as the various methods of teaching used. Here are some examples of the two types of

creativity tests our faculty regularly administer in their internal assessment tests for this purpose.

Various Types of Creativity Tests

Sl. No.	Type I	Type II
1.	Class-wise management of the department Bulletin Boards and preparing wall magazine	Draw the opposite
2.	Competitions on innovative works by students	Flexibility tests
3.	Debates and discussions on issues like environmental protection	Essay test
4.	Mobile quiz	Matching given words with figures
5.	Paper presentations on topics related to their projects	Multiple choice tests
6.	Poster competition on relevant topics	Perception test
7.	Student-assessment of Class room exercises	Short answer and definition

Scientific Spirit and Attitude: Every attempt is made by the faculty to develop in the students, irrespective of the discipline they pursue, scientific spirit and values characterized by objectivity, open-mindedness, disinterestedness, curiosity, suspended judgment, critical mindedness and rationality. Academic exercises in the form of invited talks, seminars and debates that impart universalism and communality are also organized in the campus. A few of the country's successful scientists who visited the campus to interact with the students on these subjects are the following:

Scientists who interacted with the Students

Sl. No.	The Scientist	Event	Date of the Event
1.	Dr. Anu Radha Krishnan, Project Director, G- Sat 12	Interactive Session	08/12/12
2.	Dr. Tessy Thomas, Director, AGNI 5 Missile Project, DRDO	Meet the Mega Scientist – Interactive Session on Science and Communality	18/02/12
3.	Dr. M. Abdul Salam, Vice Chancellor, University of Calicut	Talk on institutional social responsibilities	18/02/12
4.	Dr. Joseline Jose, Senior Scientist, Central Marine Fisheries Research Institute (CMFRI)	Interactive Session	25/01/12
5.	Prof. Jennifer Seberry, School of Computer Science and Software Engineering , Wollongong, Australia	Meet the Mega Scientist – Interactive Session on Who is Afraid of Microsoft?	12/12/11

6.	Prof. K. T. Arasu, Dept of Mathematics, Wright State University, Ohio, USA	Meet the Mega Scientist – Interactive Session on Mathematics of Cryptography, Public Key Cryptosystems and RSA	06/12/11
7.	Dr. Arvindkumar Nema, Associate Professor, Dept of Civil Engineering, IIT Delhi	Meet the Mega Scientist – Interactive Session on e-waste management	24/02/11
8.	Dr. K.T. Arasu, Professor Wright State University, Dayton, USA	Meet the Mega Scientist – Interactive Session on Science Minus Human Drama	04/12/10
9.	Dr. APJ Abdul Kalam Defense Scientist and Former President of the Indian Union	Meet the Mega Scientist – Interactive Session on Universalism	29/01/10
10.	Dr. Thomas Panko, Professor, University of Southern Missisippi , USA	Interactive Session on Banking sector	31/07/09
11.	Dr.Tony Henthrone- Professor University of Nevada, U.S.A	Interactive Session on Tourism Sector	31/07/09
12.	Prof. Dr. Alwin J. Williams, Distinguished Professor of Marketing, Mitchell College of Business, University of South Alabama, USA	Interactive Session on Business Education in USA	18/05/09
13.	Dr. John A.V. Formerly Research Scientist TIFR	Meet the Mega Scientist – Interactive Session on RSA with Java Programming	07/03/08
14.	Dr. Pushparaja- Rtd. Senior Scientist and C.K.G.Nair-Scientific Officer, BAARC,Trombay	Meet the Mega Scientist – Interactive Session on Atoms for peace	06/02/08
15.	Dr. Babu J.Alappatt, Associate Professor, IIT Delhi	Meet the Mega Scientist – Interactive Session on Global Environmental Issues	15/01/08

Outcome

The exposure of the students to this array of shining stars in the galaxy of science and allied fields is a unique feature in the educational institution. The college is proud to have arranged many interactive sessions with such renowned geniuses. The students of the college are fortunate in getting opportunities to develop scientific temper and spirit. The number of students entering into the field of teaching/research in institutions of higher learning is on the rise.

2.3.5 Technologies and Facilities Available and Used by the Faculty for Effective Teaching

In addition to a number of conventional resources like seminars, workshops, invited talks, digital data bases, journals and a class-one library that empower the

faculty, the following technologies and facilities also have been provided to equip them for effective teaching:

Technological Teaching Aids: Our teachers make use of a variety of technological teaching aids that enhance student learning with both online resources and non-digital technologies. Online resources, e-readers, websites and online software, interactive whiteboards, LCD Projectors, digital camera, digital microscope, Smart Boards/IQ Boards, Webcams and Educational CDs are some of them.

E-Learning: Among the instructional technology applied by the faculty here, e-learning techniques stand first. Our faculty is now dependent to a great extent on the e-content freely available in the internet. They are being encouraged to produce their own material and for this purpose we have put up a proposal for financial aid to the UGC.

We have identified a common frame-work to promote our e-learning quality by improving (1) infrastructure (2) technical standards (3) e-content development (4) pedagogic practices and (5) institutional developments.

Our faculty make use of platforms offered by Google Apps for Education, Scholar. Google.co.in, Moodle.org, Education.skype.com, zotero.org etc., for e-content development, preparation of research papers etc. Students are asked to present seminar as a group using these websites. Google calendar is used to give dates of seminars, home works, G.D. sessions, assessment dates etc. Faculty develop blog spots to display lessons, question bank etc. which can be downloaded through internet or mobile facility.

Virtual Laboratories:

Web enabled experiments are used in this institution to enthuse curiosity and innovative spirit in the students. This would help in learning basic and advanced concepts through remote experimentation using sophisticated technology by experts in the field. VIRTUAL LAB, an initiative of Ministry of Human Resource Development (MHRD) under the National Mission on Education through ICT, facility is provided in science departments like Biotechnology, Chemistry, Computer Science and Physics and Commerce and Management by registering with Universities and other institutions. Following is a table showing the virtual lab facilities used by various departments.

Virtual Lab Facilities Availed

Department	Virtual Labs	Providing Institution
Biotechnology	Biochemistry , Immunology, Microbiology, Molecular Biology, Cell Biology- Virtual Lab I & II	Amrita University
Chemistry	Analytical Lab, Virtual Chemistry Lab	Dayalbagh
	Molecular Interactions, Colloid and Surface Chemistry	IIIT Hyderabad
	Organic Chemistry	Amrita University
Computer Science	Computer Architecture and Organization	IIT Kharagpur
	Advanced Network Technologies	

	Computer Programming, Graphics	IIIT Hyderabad
Physics	Virtual Optics Lab, Virtual Heat and Thermodynamics Lab, Virtual Electricity and Magnetism Lab	Amrita University
Commerce and Management	Business Management	

National Programme on Technology Enhanced Learning (NPTEL):

Our faculty are keen on introducing the e-learning online Web and Video courses to our students. Science departments use NPTEL course content as a teaching tool. Lecture videos, handouts and assignments of various NPTEL courses are made available to students.

NPTEL Course Materials

Department	NPTEL Course materials used
Biotechnology	Biomathematics, Cellular and Molecular Immunology, Plant Biotechnology etc.
Chemistry	Chemistry of Materials, Principles of Organic Synthesis, Reagents and Organic reactions etc.
Commerce	Bank Management, Consumer Behaviour, International Finance etc.
Computer Science	Computer Architecture, Computer Networks, Computer Organization etc.
Mathematics	Advanced Abstract Algebra, Applied Multivariate Analysis, Advanced Matrix Theory and Linear Algebra for Engineers etc.
Physics	Electrodynamics, Quantum Electronics, Electronics etc.

Open Educational Resources (OERs):

IQAC has specially exposed our faculty to the various e-learning sources available online, and OER is one of them, especially those offered by major research and educational centers like the IITs, IISc etc in India and institutions and universities like MIT, Tuft, Carnegie Mellon, California, Berkeley and Harvard University abroad. Syllabus aligned open courseware is accessed by all departments in this institution. The educational resources in the form of lecture videos, audio lectures, demonstrations and handouts are part of departmental digital library.

Department of Biotechnology has also made use of EdX online courses. EdX is a not-for-profit enterprise of its founding partners Harvard University and the Massachusette Institute of Technology that features learning designed specifically for interactive study via the web. One faculty and nine PG students of Biotechnology department are enrolled into an EdX course "PH207x: Health in Numbers: Quantitative Methods in Clinical & Public Health Research", which is the online adaptation of material from the Harvard School of Public Health classes in epidemology and biostatistics.

Mobile Education: This institution makes use of media, blogs and mobile technologies in higher education in several ways with the objective of engaging the prospective students in modern and relevant ways. About **60** percent of our students own a personal cell phone while the other **40** percent share it with their family. In spite of a prevailing debate on the student-use of mobile on the campus and the existing ban on the mobile phone in the campus, students are encouraged to make use of the cell phone while at home to contact and interact with teachers and download learning materials sent to them via the NET. Here are five ways we make use of mobile-tech to facilitate curriculum transactions:

1. To announce academic discussions and events
2. To make teaching more collaborative by sending the teacher a near-real-time feedback at the end of a day's work. Providing real-time academic information like spontaneous schedule, grades etc.
3. To receive queries from students before and after the class
4. To provide real-time-foster-knowledge-fragments like a news-item of importance or notify students of a relevant telecast, e-journal article etc.
5. To provide real-time academic information

2.3.6 Student and Faculty Exposure to Advanced Level of Knowledge and Skill.

The numerous ways in which students and faculty are acquainted with the advanced knowledge and skills in their respective disciplines are Workshops, Seminars, Expert lectures (by external experts, researchers, professors and industry personnel of National and International standing) and Subscriptions to research journals, print as well as digital and web. A few departments bring out their own research publications which provide the faculty and students exposure to new knowledge.

The college is a subscriber to INFLIBNET-N List which makes available **75000 e-books** and **3000 e-journals** in full text format to the faculty, researchers and students.

a) Workshops: Workshops are used by us as learner-centered teaching tool for total engagement of the learners. Workshops also enable the teachers to connect the content to the context of the learners. It offers an opportunity for group interaction, which is an essential component of the student-centered teaching-learning mode. The Workshops that the departments arrange here are small-group teaching and learning get-togethers, usually structured to produce all the desired results. All the departments in this institution convene workshops. During the last four years, various departments have organized   international, national and regional workshops.

Workshops Organized by Various Departments

Department	Thrust Area and level	Date
International		
Mathematics	Algebraic Methods in Combinatorial Design	07-09/06/11

Department	Thrust Area and Level	Date
	Theory	
Mathematics	Cyber Security	06-08/12/11
English	Australian children's Literature	15/09/08
National		
Economics	Enterprenuership	03-05/12/12
Mathematics	Secura- Ethical Hacking Workshop	27-29/09/12
Chemistry	Lecture- Workshop on Modern Trends in Chemistry	06-07/03/12
Mathematics	Science Academy Lecture workshop on Some topics in Functional Analysis and Several Complex Variables	04-06/01/11
Chemistry	Lecture- Workshop on Modern Trends in Chemistry	24-25/02/10
Biotechnology	Workshop on Bioinformatics	17-19/02/09
Mathematics	Cryptography	13-14/08/07

b) Seminars: We practise seminar as a form of academic instruction with the function of focusing each time on some particular subject, in which everyone present is made to actively participate.

Seminars organized by our departments are of all conceivable reach - regional, national, continental and international. Feedback, a mandatory requirement of the seminars, helps us a lot in improving our subsequent ones. The proceedings of such seminars - national and international - are invariably published in book-form as a permanent record for future reference. Furnished below is a table showing details of Seminars (national/international) which various departments have organized during the last four years:

International Seminars and UGC Sponsored National Seminars

Department	Thrust Area and Level	Date
International Seminars		
Mathematics	Cyber Security	09-10/12/11
Commerce and Business Administration	Global Financial Crisis	31/07/09
Commerce and Business Administration	New Trends in Business Education	18-19/05/09
Mathematics	Recent Trends in Topology	11-13/03/09
Commerce and Business Administration	New Age Marketing Strategies in Banking and Tourism Sectors	14-15/05/08
UGC Sponsored National Seminars		
English	Revisitations: The Politics of Rewriting Old Texts	23/03/11
Zoology	Advanced Technologies for Waste Treatment	24-25/ 02/11

Hindi	Women in Hindi Literature	23-24/02/11
Botany	Biodiversity and Conservation of Nature	23-24/08/11
Chemistry	Current Trends in Chemistry	03-04/03/11
Botany	Herbs and Herbal Products	29-30/09/10
Economics	Special Economic Zone	05-06/03/09
Malayalam	Eco-Folklore	27-28/07/07

Besides International and National seminars many state level regional level seminars were conducted during this period. The following diagram shows the number of such seminars conducted in the college.

Regional Seminars & Workshops Organised by Departments
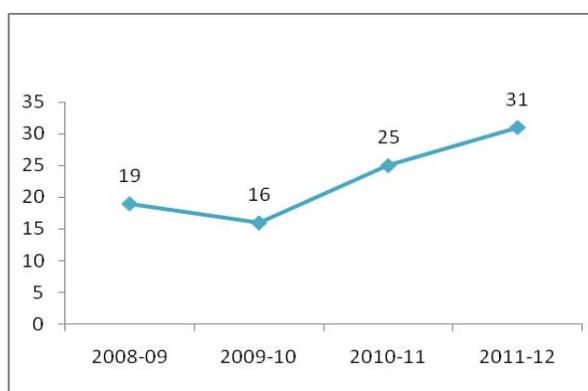
Apart from this, faculty and P.G. students attend workshops and seminars organized by other colleges and organization like ICSSR.

c) Blended learning: We combine face-to-face classroom methods with computer-mediated activities to form an integrated instructional approach. Digital materials are made to serve a supplementary role to support face to face instruction. This hybrid or mixed mode method integrates the best aspects of both the modes.

d) Expert lectures: Expert speakers on recent and innovative topics are invited to the campus on a regular basis. Students are thus provided rare opportunities to interact with these invited resource speakers which help to enrich their knowledge and quest for excellence. Learning directly from the sources, mark their memory with unique and unforgettable experiences. The list is mentioned in criterion 1. The Virtual lab facility registered through Amrita University makes easy online interaction with experts on various subjects.

Outcome
Workshops have provided hands-on experience for the students in keeping abreast of the current developments in relevant areas. Seminars provide excellent exposure to updated information and bring the faculty and students into contact with resource persons from within and outside the country. Blended learning facilities for the students and teachers introduce them to the changing world of technology-assisted teaching and learning process, while at the same time retaining what is desirable in the old method. Expert lectures bring the students face to face with the experts from various disciplines who are invited to the campus. The interaction with them not only furnishes new information on a topic, it also provides inspiration for the students to hone their research and higher

learning aptitudes. The whole exercise also provides the students opportunities for planning and executing programmes so that they become adept in event-management.

2.3.7 Academic, Personal and Psycho-Social Support and Guidance Services

We have on-campus Student Support and Service System with approachable, experienced, trained, and committed facilitators, who provide the students with confidential, transparent, practical, timely, customized and impartial information, service and advice related to the following:

a) Careers and/or progression

b) Student awards, loans, scholarships and free-ships for higher studies

c) Medical Help: On-campus consultation with a general physician and a specialist gynecologist during college hours

d) Counselling – a chance to talk through problems and think about solutions with a professionally qualified counsellor of long years of standing in the full-fledged government approved on-campus Counselling Centre

e) Student Council Focus Groups for Peer Support and Comfort

f) Student service feedback questionnaires applicable to our services for record

g) Promoting equality of access and opportunity in education, employment, training and guidance

As an institution committed to equality of opportunity to all students, this institution provides a range of campus services to support needy students.

- **Academic Support**, the first of them, provides general study support for all students. Peer help is also arranged. The library is also ready with a variety of study materials within Academic Support which include course specific advice, general study strategies, help with reading and writing etc.

- **Psycho-social support** at a registered Counselling Centre: Systematic programmes to equalize the psycho-social and academic performance differences among the disabled students are provided on this campus. Family problems also affect learning ability. Therefore on-campus psychological support is made available to these students. The College has a full fledged counselling centre, Darsana, on the campus with sufficient number of professionally qualified counsellors.

- **Guidance Services:** Guidance and Counseling centres help the students to realize their strengths and weaknesses by instilling self-awareness, decision making skills, planning skills and personality development techniques. The guidance provided relates to the below-mentioned Career Development Strategies as well:

a) Providing special guidance sessions led by experts in the respective fields

b) Providing professional training and career seminars to equip them

c) Helping to acquire career skills specially needed for various kinds of career opportunities

d) Advising the student on the jobs that might be most advantageous for her in view of her special skills, how to find opportunities in that sector and how to apply for those jobs

- **Tutorials:** Tutorial is followed in this institution as a pedagogic mode in order to create authentic learning and assessment opportunities. The teachers prompt the students to orally articulate, defend, analyze, and critique the ideas in the face-to-face tutorial discussions. These sessions therefore prove more academically challenging than standard lecture-and-test sessions. The tutorial sessions have proved highly beneficial especially in the case of those who need personal attention of the teacher for a fuller grasp of the subject.
- **Mentoring system:** This institution has in place a well functioning mentoring system which is a part of the tutorial programme. This is seen in this institution as an informal and supportive relationship whereby a faculty member undertakes to help a certain number of students (20-30) offering them development guidance during the entire period of study. A rapport is created between the mentor and the mentee in the first semester itself. A faculty-mentor is expected to provide support to her wards in the following capacities.

    a) Serving as on-campus-guardian for the student especially in resolving any difficulties or conflicts that may arise and speaking for and on her with the authorities as the person who knows her best
    b) Providing an empathetic ear to personal problems and getting ready with referrals to professional counsellors, if needed
    c) Devising methods to sharpen the student's intellectual skills
    d) Discussing issues related to students' theses or dissertation topics if occasion demands and suggesting books, authors or articles that can expand students' learning or research experience base
    e) Providing multi-level guidance, coaching, direction, and encouragement during tough and rough phases of the student's tenure in the college, and above all
    f) Helping the mentees to create practical and challenging goals, especially on academic achievement, career planning, and higher education

Outcome The feedback received on Tutorial and Mentoring shows that the mentees have benefited from the system in the following ways:

- Improved self-confidence
- Developed a supportive relationship
- Assisted with problem solving
- Offered professional development

The entire group of students who are on the college rolls are the beneficiaries of mentoring. No one is left out from the effect and impact of the above provisions. This has resulted in closer ties between the teacher and the student. The student gains the freedom to disclose confidential matters regarding her academic and personal life to the tutor. The tutor helps the student to solve problems, and becomes the facilitator for forging an atmosphere for the better performance of the student. In turn, this helping process has enhanced teacher recognition and they have experienced satisfaction in grooming a generation.

2.3.8 Innovative Teaching Approaches and its Impact

This institution aims to cultivate a community of faculty interested in exploring the use of technology for teaching and learning, providing the right infrastructure and ample opportunities to share their ideas and experiences with colleagues. By fostering a culture of reflection on the impact of technology, the institution endeavors also to improve the student experience on the campus.

The innovative teaching methods tried and tested by the faculty in this institution include:

1) Incorporating new technology
2) Teaching through projects
3) Creative approach to the syllabus teaching
4) Increased use of web resources
5) Innovation in effective utilization of lecture time (40 minutes for instruction, 20 minutes for interaction)
6) Research oriented teaching – projects, seminars
7) Interdisciplinary teaching (common course)
8) Use of GD, Role Play, Poster Wall Magazine etc., as part of class room teaching
9) Focus on student centred teaching

There is at least one digital class room in a department with appropriate gadgets. No Department in the institution is without a PC or internet connectivity. The faculty are also provided necessary updating in the use of the technology provided. With the state-of-the-art gadgets like LCD, laptop, smart board, webcam, handicam, microphone etc., the institution seeks to engage and inspire learners. Besides that, the institution has also created awareness among the faculty and staff regarding the use of ICT resources and has provided necessary training for e-content development.

Technological teaching aids provided in the institution comprise (a) a well-equipped Media Lab for e-content preparation (b) ICT equipped smart A/C seminar halls (c) Software for cyber security coaching (d) e-Library (e) Language Lab (f) virtual Lab etc., Workshops and seminars have formed a regular built-in component of the curriculum transaction in all our departments. All PG classes and some UG classes meaningfully partake of the seminar proceedings with the help of LCD presentations. As a result students have become familiar with the use of ICT which in turn has increased self confidence and facilitated better and faster understanding of the subject taught.

Impact: Teaching and learning innovation is incorporated not only on the delivery of the content, but also on the medium through which it is delivered. Technology has also changed the way teachers teach, offering educators effective ways to reach different types of learners and assess students' grasp of the subject taught through multiple means. It has enhanced the relationship between the teacher and the student. When technology is effectively integrated into subject areas, teachers are elevated to the roles of adviser, content expert and coach. Technology helps make teaching and learning more meaningful.

2.3.9 Use of Library Resources to Augment the Teaching –Learning Process

The Vision of the library is to access support to ever widening intellectual enquiry exceeding expectation. And its Mission is to be a resource hub in the research, teaching, and learning needs of the college community.

To fulfill this mission, the Library has committed itself to:
- Understand the academic needs of its users
- Collect, create and preserve resources to support these endeavors
- Ensure preservation of the collections and resources
- Create hospitable physical and virtual environments with the aid of state of the art tools and technologies
- Develop, encourage, sustain and update expertise, skill, commitment and spirit to be of cheerful service to the knowledge seeking community

The Central Library, the core Learning and Teaching Resource Centre of the college with **60000 books, 305 journals and 1025 CDs** supports teaching, learning and research across a wide range of all conceivable disciplines. An increasing amount of resources are now available online, both on and off campus, including images and full-text journal articles. Enough number of computers with internet and reprographic facility help the students download or copy any required information.

The college also provides to all the faculty and students personal ID to gain access to the INFLIBNET N-List site that offers **75000 of e-books and 3000 e-journals** in full text form. This facility is a boon to the research scholars.

The Library welcomes suggestions from all members of the college community for the acquisition of materials which support the institution's teaching and research programmes. Separate reading area is allotted to the faculty, research scholars, PG students and UG students. Access to the library is managed electronically by producing the smart card. Library is open for use from 7 a. m. to 7 p.m. Users can easily search and locate reading materials with the help of user friendly software. CCTV cameras installed ensure disciplined and effective use of the library.

The library facilities are made use of by the faculty in the preparation for the classes, forwarding of applications and submissions of reports on projects, collection of references for theses, dissertations and articles. Students rely on the library for the writing of their assignment and project reports. Student-centric teaching calls for increased use of the library and internet both by the faculty and students. They also search for and obtain information on topics for various competitions held by the college and by other agencies. The library is also accessed by retired teachers, former students, and scholars from other institutions on special request for collection of data for varied purposes.

2.3.10 Completion of the Curriculum

As this institution is almost completely free from unnecessary political interference and consequent loss of working days caused by strikes, lock-outs and bandhs, we are able to stick to the schedule. The curriculum prescribed for every semester is completed to the satisfaction of the students and the faculty well

within the time frame. The use of advanced technology and e-content in teaching also helps to a great extent in timely completion of syllabus.

2. 3.11 Monitoring and Evaluating the Quality of Teaching- Learning

A culture of continuous review and improvement underpins our approach at departmental, faculty and institutional level.

- The Departmental Diary given to every department in print format provides for recording the actual hour-by-hour work done by each faculty.
- The Institution analyses the feedback on teaching and learning obtained from different sections of stakeholders.
- Internal Academic Audit, monitored by the IQAC by means of stakeholder feedback, is an in-depth term-wise review led by departmental peers. It is designed to provide evidence on the quality of the learning experience. This is often corroborated by the external assessment process of the university examinations.
- IQAC team always monitors teaching-learning, observes and checks whether the faculty is making use of ICT teaching devices and whether enough e-content is developed and used in the classroom context. Registers are kept in every department and in the Principal's office to analyze the same. All the necessary electronic equipment is provided by the institution and training is provided by peers in the use of technology in class-rooms.
- To provide the best teaching and learning experiences to all students, this college has introduced department-level appreciative peer review of learning and teaching. The objective is to encourage department-based collaborative quality enhancement in teaching.
- A highly confidential evaluation of the teacher collected from the students by the Principal also serves as a documentation of the merits and demerits of a faculty member's teaching quality. The assessment made by the Principal based on the student responses is invariably passed on to the teacher for improvement every year.
- The 'Teacher of the Year Award' is given by the CHF Pavanatma Educational Society after evaluating the performance of faculty every year. Data is collected in a format prepared by IQAC.

2.4 Teacher Quality

2.4.1 Strategies in Planning and Management of Human Resource.

The following table shows the qualification and designation of teachers.

Number of Teachers, Qualification and Designation

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
DSc/DLitt	0	0	0	0	0	0	0
PhD	0	0	0	22	2	6	30
MPhil	0	0	0	6	1	5	12

PG	0	0	0	6	2	14	22
Temporary Teachers							
PhD	0	0	0	0	0	0	0
MPhil	0	0	0	0	0	0	0
PG	0	0	0	0	0	8	8
Part-Time Teachers							
PhD	0	0	0	0	0	0	0
MPhil	0	0	0	0	0	0	0
PG	0	0	0	0	1	0	1
Total				34	6	33	73
Adhoc-Faculty							
PhD	0	0	0	0	0	1	1
MPhil	0	0	0	0	0	1	1
PG	0	0	0	0	0	18	18
Grand Total	0	0	0	34	6	53	93

Recruitment and Retention Strategies of Human Resource:

Recruitment of staff-teaching as well as non-teaching- in the aided private colleges in Kerala is done strictly as per the decisions reached at by the Consortium of Private College Managements and the State Government following the Direct Payment System introduced decades ago. The agreement stipulates that fifty percent of the total vacancies are to be filled in on the basis of pure merit to be determined on the basis of the norms laid down by the Government, University and the UGC. Rest of the vacancies is reserved for candidates belonging to the community represented by the college, but satisfying the same norms.

The appointment procedure of the permanent faculty involves the following steps:

a)   Applications are invited through advertisement on the websites and in the local news papers. The number of posts in the subjects, the required qualifications and the last date for receiving applications are notified.

b)   Applications received are scrutinized and qualified candidates short-listed and informed of date of interview.

c)   The interview panel is finalized. It comprises the Manager, the Principal, the Government nominee, the Subject Expert and usually the Head of the Department.

d)   Results of the interview are published and the selected candidates are informed.

During the post accreditation period, **29** faculty members were appointed.

Department-wise Appointment of Faculty

Sl. No	Name of the Department	No. of Faculty
1.	Biotechnology	4
2.	Chemistry	1

3.	Commerce	4
4.	Computer Science	1
5.	English	11
6.	History	1
7.	Malayalam	1
8.	Mathematics	1
9.	Physics	1
10.	Sociology	1
11.	Statistics	1
12.	Zoology	2
Total		29

Appointment of ad-hoc faculty also involves advertising of the post and interview by the Principal and Head. Only those candidates who have already registered their names with the office of the Director of Collegiate Education can apply for the post now.

All employees of the aided colleges are paid by the state government at the UGC scale and therefore the college experiences little difficulty in getting and retaining faculty and staff of requisite standard and quality.

All stipulations laid by the UGC from time to time regulating selection and appointment of teachers are invariably incorporated into the University statutes and coupled with the Kerala State Service Rules, form the code that govern the service conditions of the faculty and staff.

The selection to various positions is made on the basis of an interview and the faculty appointed usually continues in service until the incumbent attains the age of retirement which is fifty-six at present.

Selection norms: Marks are allotted to the candidates based on various attributes - NET, PhD, MPhil, rank, experience, publications, and interview. In the interview, personality, communication skills, computer knowledge, teaching ability, proficiency in ICT and soft-skills are given weightage.

2.4.2 Coping with the Growing Demand/Scarcity of Qualified Senior Faculty

The college has always taken steps for regular quality improvement of faculty from the stage of recruitment till the time of retirement. The UGC scheme of FIP for completion of PhD work has been utilized most effectively during the previous years. A total of **24** faculty completed full time/part time PhD work and **13** were awarded degree.

The institution has not in fact faced much difficulty in getting qualified faculty in the emerging areas. The college offers UG and PG programmes in the emerging area of Biotechnology and the department has all the vacancies filled with adequately qualified candidates among whom three are PhD holders including a Commonwealth Scholar with Nottingham research background. We have among our faculty even a PhD in Bioinformatics. Still in order to have exposure to teaching by senior faculty we conduct invited talks, study group discussions, guest lectures and workshops by resource persons drawn from reputed universities

in the country and from abroad.

2.4.3 Strategies Adopted by the Institution in Enhancing the Teacher Quality

The following strategies are adopted to ensure and promote teacher quality.

1) Induction, mentoring and acclimating support for teachers
2) Validated, fair, reliable, consistent and rigorous teaching feedback system with measurable performance indicator system stipulated by the UGC
3) Positive and distress free campus atmosphere
4) Comfortable teacher-student ratio
5) ICT oriented teaching-learning training
6) Total resource availability including web-based information
7) Best infrastructure and research environment
8) Updating of knowledge through higher research

Participation in Staff Development Programmes: Management of the institution is aware of the need for training for faculty and is co-operative in sending the faculty to various programmes for faculty development like orientation and refresher courses. The table below shows the details of staff participation in the same.

Participation in Academic Staff Development Programmes

Academic Staff Development Programmes	No. of Faculty
Refresher courses	8
HRD Programmes	4
Orientation Programmes	5
Staff training conducted by the University	3
Staff training conducted by other Institutions	9

- **Faculty Training programmes** are also organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning   such as Development, Selection and Use of Teaching-learning Material including e-content , Audio Visual Aids/multimedia and ICT training, OERs, Handling new curriculum etc.

All faculty members have participated in a good number of external Workshops/ Seminars / Conferences supported by national/ international professional bodies and there have been **120** paper presentations in Workshops/Seminars/ Conferences conducted or supported by professional agencies. Table given below shows the percentage of faculty participated as Resource persons and otherwise in seminars and workshops and presented papers.

Faculty Participation in Seminars and Workshops

Sl. No.	Particulars	Percentage of faculty
1.	Faculty as Resource persons	50
2.	Faculty Participation in Seminars and Workshops	95
3.	Presentation of Papers	67

Paper Presentations in International Workshops / Seminars / Conferences Conducted and Supported by Professional Agencies Outside the State

The Faculty & the Department	Title of The Conference/ Seminar	Place	Date	Title of the paper
Mr. Stalin Raphel (Department of Physical Education)	6th ASPASP International Sport Psychology Congress in Taipei, Taiwan	Taipei, Taiwan	11-14/11/11	Effect of Positive Self - talk on Competitive Anxiety and Self Confidence among Cricket Players
Dr.Geetha K V& Dr. Mangalambal (Department of Mathematics)	48th International Congress of Mathematicians Hyderabad	Hyderabad	19-27 /08/10	Abelian and Tauberian Theorems for the Laplace Transformations on Duals of Ordered Topological Vector Spaces
Dr. Lilly P.L & Mr. P .L. Antony (Department of Mathematics)	48th International Congress of Mathematicians	Hyderabad	19-27/08/ 10	Intuitionistic Fuzzy Lie Algebra over a Fuzzy field
Dr. Rani Paul Ukken (Department of English)	ACAH-Asian Conference on Arts and Humanities	Ramada, Osaka, Japan	18-21/06/ 10	Literary Texts in Cultural Contexts; Problems and Possibilities in Stage Adapting Prescribed Plays for College Students
Dr. Philo Francis & Dr. Sr. Rosa KD (Department of Commerce)	International conference on "Consumer protection and globalization".	Kalasalingam University, Krishnakoil	28–29/01/10	Impact of globalization on the banking with special reference to banks in Kerala
Mr. Stalin Raphel (Department of Physical Education)	International seminar on "Excellence in Sports And Life	Gwalior	21-24/12/09	Programme on Team Cohesion among Volleyball Players
Dr. Philo Francis & Dr. Sr. Rosa K.D. (Department of Commerce)	National seminar on "Global economic crisis – perspectives and policies"	Christ University, Bangalore	14-15/12 /09	Impact of Global Recession on the Banking Sector in India
Dr. Shali Anthappan (Department of English)	Kafla-5th International Writers Festival India	Jaipur	14-15/11/09	Power, Violence, Fear in the Novels of J K Rowling

Mr. Stalin Raphel (Department of Physical Education)	International seminar on "Meeting New Challenges and Bridging Cultural Gaps in Sports and Exercise Psychology"	Morocco	17-21/06/09	Effect of Team Building Intervention
Dr. Philo Francis & Dr. Sr. Rosa K.D. (Department of Commerce)	National Conference on Road Map to Development	Centre for Social Development, Hyderabad(ICSSR)	05-06/03/ 09	Impact of Globalisation in the Business Scenario of Kerala.
Dr. Lissy Anto P (Department of Computer Science)	Inernational Conference BSB09 colocated with SABRE 2009	Leipzig University, Germany	23-25/ 03/09	Phylogenic Reconstruction by Spectral Content Method
Dr. Geetha K.V. (Department of Mathematics)	International Conference on Computational and Mathematics	WASET, Hongkong	02/02/08	Laplace Transformation on ordered linear space & generalized functions

2.4.4 Recharge Facilities Offered

a) Research Grants and Study Leave: The institution is ready to grant study leave and extend support to faculty who have genuine interest in doing research, project etc. It encourages publication by the faculty. When VISTAS was launched as an ISSN publication, **50%** of expenses (Rs. **20,000**) was contributed by the management. Financial support is given for paper presentations outside the state. During the last four years **11** teachers were granted FIP deputation by the UGC for PhD programme and all of them have submitted their theses.

b) Support for Research: Apart from the above UGC, DST and STEC offered grant for minor research projects as detailed below:

Details of Ongoing and Completed Projects and Grants Received

Sl. No.	Name of Faculty	Project Title	Minor/ Major	Period	Outlay in Rs
1.	Dr Sr Lilly P L and Sr. Siji P D	Fuzzy Association Mining Using Modified Clustering Algorithm in Medical Data Base System	Minor UGC	2012-14	200000
2.	Dr Sr Lissy Anto P	Computational Identification of Knots in Proteins	Minor UGC	2012-14	80000

3.	Dr Sr Anis K V	A Study on the Faunal Diversity, Ecological significance and conservation strategies of Sacred grooves of Thrissur District (Zoology)	Minor UGC	2012-14	90000
4.	Dr Aneesh E M	Larvicidal efficacy of Aromatic Plants extract and their action on a few target (Detoxitying) Enzymes of *Culex quinquefasciatus* say, the Filariasis Vector	Minor UGC	2012-14	80000
5.	Dr.Rani M J	Intuitionistic Fuzzy Lattices and their Applications	Minor UGC	2011-13	100000
6.	Dr. Mangalambal N R	On Ordered sheaves	Minor UGC	2011-13	100000
7.	Dr Beena Anto K	Biodiversity of Anti- Diabetic medicinal Plants and its Tissue Culture Aspects	Minor UGC	2011-13	140000
8.	Dr. Rosabella K. Puthur	Photocatalytic reduction of nitrous oxide using TiO_2 – a computational study	Minor UGC	2011-14	150000
9.	Dr. Deena Antony	Comparative study of catalytic and biocidal activities of some new metal complexes of Mn(II), Co(II), Ni(II), Cu(II)and Zn(II) derived from thiophene and furan (II) carbaldehydes	Minor UGC	2011-14	145000
10.	Ms. Litty Chacko	The cultural traditions of keralanasrani- a folklore study based on Veeraraghavapattayam and Thazhekkadu church	Minor UGC	2011-12	75000
11.	Dr. Bincy Varghese	Preparation and characterization of chiral ligand complexes of transition metals immobilized on zirconia surface and to test its effectiveness in asymmetric catalysis	Minor UGC	2010-12	65000
12.	Dr. Asha Thomas	The cultural, Psychological and Linguistic Impact of Children's channels on Pre-adolescent Child	Minor UGC	2009-11	143,000
13.	Dr. Geetha K V	A Different Approach to Generalized functions and	Minor UGC	2009-11	85000

		Integral Transforms			
14.	Dr.Sr. Lilly P L	Some root properties of Lie super Algebras and Generalized Lie Super Algebras	Minor UGC	2009-11	40,000
15.	Dr. Philomina M T	Theory of Frames and Application to Computer Science	Minor UGC	2009-11	80000
16.	Dr.Valsa John C and Ligi K T	Minor Projects on Migration, Remittance, Employment, Status among Migrant Workers of Kerala	Minor UGC	2009-11	50000
17.	Dr.Rani Paul Ukkan	English in Scientific Research	Minor UGC	2009-11	36000
18.	Mr. Stalin Raphel	Goal orientation, Perceived Motivational Climate, Causal Dimensions and Sources of Sports Confidence among Kerala Foot ball players	Minor UGC	2009-11	75000
19.	Dr.Pearly Sebastian Chittilappilly	Studies on some Schiff base complexes of catalytically important metals	Minor UGC	2009-10	85000
20.	Dr.Sr. Lilly K O	Biological studies of halogenated Copper(II) and Nickel(II) Schiff base complexes	Minor UGC	2009-10	100000
21.	Dr.Annie P V	Cultural Heritage of Irinjalakuda	Minor UGC	2009- 11	50000
22.	Dr.Sr. Rose Anto	Ecological Degeneration of Waterways and Water sources –Shanmugham Canal A Case study-The Problem and Solution	Minor UGC	2008-10	50000
23.	Dr. Bincy Varghese	Study of the strength and distribution of acid and base sites and catalytic activity of some rare earth metals supported on zirconium oxide surface.	Minor KSCSTE	2008-09	8000
24.	Dr. Pearly Sebastian Chittilappilly	Catalysis by Zeolite Encapsulated Complexes	Minor KSCSTE	2008-09	10000
25.	Mr. Pradepkumar M	Status Assessment of Scheduled Caste Families	Local Govt.	2008-09	20000
26.	Mr. Pradeepkumar M	Socio Economic Status of SCs in Poruthussery Grama Panchayat	Govt. of Kerala	2007-08	30000
27.	Ms Saji Jose	Gender Studies-Gender Position,	Govt. of	2007-08	24000

	Nellissery & Dr.Sr.Jessy K.C	Muriyad Grama Panchayat	Kerala		
28.	Mr. Pradeepkumar .M & Dr. Sr. Jessy K.C	Gender Analysis and Gender Position of Lakshadweep Island	Lakshad weep	2007-08	32000
29.	Dr.Rosabella K. Puthur	Computational study of the Reaction of Nitric oxide with acetone	Minor UGC	2006-08	60000
30.	Dr. Deena Antony	Synthesis, Characterization and anticancer activity of some new dioxomolybdenum (VI) and tungsten (VI) Schiff's base complexes	Minor UGC	2006-08	60000
31.	Dr. Bincy Varghese	Preparation of mixed Ligand complexes of Transition metals mounted on zirconia surface and to study its catalytic activity in the H_2O_2 decomposition.	Minor UGC	2006-08	65000
32.	Dr.Sr. Rosa K D & Dr.Philo Francis	Impact of Globalization on the Business Environment of Irinjalakuda	Minor UGC	2006-08	25000
33.	Dr Sr Anee T K	Investigations on the impact of trace elements on the crystallization of DCPD which causes the dental and urinary calculi	Minor UGC	2006-08	40000
34.	Dr. Rani Paul Ukkan	Stage Adaptation of prescribed plays for college students	Minor UGC	2005-07	50000

Outcome: The relatively long list of ongoing and completed projects undertaken by the faculty is indicative of the faculty's growing interest in research activities that have proved beneficial for the students, the institution and the society. The project grants have resulted in the acquisition of new equipment and books that have been useful in launching further research activities. The dissemination of knowledge effected through the projects to the students is a major outcome and an incentive for them to take up future projects.

To promote academic publications of the faculty, the institution brings out a Multidisciplinary Refereed National Research Journal, VISTAS, with ISSN identity (No.2319-5770). The research centres of the college (Mathematics, Commerce, Chemistry and English) are also bringing out their own research publications on their specialized areas periodically.

2.4.5 Faculty Who Received Awards/ Recognition for Excellence in Teaching during the Reaccreditation Period

Eleven of our faculty received '***Researcher in Science', 'Researcher in***

Humanities' and '*Teacher of the Year'* awards from Pavanatma Educational Society

Teacher Awards

Sl. No	Year	Teacher of the year	Researcher (Arts)	Researcher (Science)
1	2011-12	Dr.Mangalambal N R	Dr. Rani Paul U	Dr.Mangalambal N R
2	2010-11	Dr. Sr. Lilly P L	Mr.Stalin Raphel	Dr. Sr. Lilly P L
3	2009-10	Dr. Rani Paul U	Dr.Sr. Rosa K.D.	Dr. Pearly Sebastian
4	2008-09	Dr. Philo Francis	Dr. Philo Francis	Dr. Sr. Lilly P L
5	2007-08	Dr. Sr. Rose Anto	Dr.Sr. Rose Anto	Dr. Rani M.J

∗ Other award winners among the faculty include Dr. Rosebella K Puthur and Dr. N R Mangalambal who have received letters of **Appreciation and Honorarium from Indian Academy of Sciences**, Bangalore, Dr. Aneesh E M winner of **Young Scientist Award** from **ICMR** Govt. of India and Dr. Viji Mary Varghese of Department of Biotechnology who was awarded **Commonwealth Split site Doctoral fellowship** from 2007 to 2008 at University of Nottingham, UK.

Here faculty development is an ongoing process that addresses both faculty needs and institutional goals. Academic excellence is embedded in the culture of this institution from the very inception. The Founder Principal and the pioneer heads of departments educated in USA have placed a benchmarking in all the activities at par with foreign institutions of Higher Education. The table below gives details of some sessions arranged for the faculty during the last four years:

Sessions Arranged for Faculty

Sl. No.	Programme	Thrust Area	Key Speaker	Date
1	Talk	Research Methodology	Dr. Trivikraman, Professor Emeritus, Kannur University	09/11/12
2	Orientation	Teacher Quality Enhancement	Ms. Savithri Lakshmanan, Ex MP	10-12/10/12
3	Training	e-content Development,	Prof. P.L. Antony, St. Thomas College, Thrissur	06/06/12
4	Training	ICT in Teaching	Mr. Salu Thomas, Director, Boon Innovations Ltd., Ekm	04/06/12
5	Talk	Women and Technology	Dr. Tessy Thomas , Director, AGNI 5 Missile Project, DRDO	18/02/12
6	Talk	Digital Instructional Technology	Prof. Jeniffer Seberry, School of Computer Science & Soft ware Engineering , Australia	12/12/11
7	Talk	Choice Based Credit Semester System	Dr. M P Kannan, Retired Professor of Chemistry, University of Calicut	07/12/11

8	Talk	Pedagogical excellence	Dr. K Ramachandran Nair, VC, University of Kerala	26/11/10
9	Workshop	Syllabus Revision and Project Preparation	Dr. P T Ramachandran, University of Calicut	08-/07/11
10	Talk	Mind Power	Ms Ancy George, S D College, Kanjirappilly	13/03/11
11	Talk	Person centered thinking skill	Julie Hunt, Louise Skelhorn	28/01/11
12	Training	Perfect Sequence Constructions	Dr. (Prof.) K T Arasu Wright State university, USA	04/10/10
13	Talk	Quality Sustenance in Collegiate education	Dr. K.H. Shajahan, Director, H.G. Academy of Management, Mala	23/07/10
14	Talk	Excellence in Teaching	Fr. V V Abraham SDJ, Chennai	12- 13/07/10
15	Seminar	Choice Based Credit Semester System	Mr. Joshi C L, Syndicate Member, University of Calicut	14/07 /09
16	Talk	Educational Management	Fr. Joy James SJ, Provincial Superior, Jesuit Province, Kerala	12/07/07
17	Talk	Orientation Programme	Adv. Charlie Paul, High Court, Ernakulam	01/06/09
18	Seminar	Role of Soft skill in a Global Economy	Mr. J.P. Alexander, IG of Police, Ramavarmapuram	23 /06/07
19	Seminar	Team building and Change Management	Mr.V.A. George, Rtd. Chief Engineer, Thejo Company, Chennai	20/06/08
20	Orientation	ICT Oriented Teaching	Dr.Sr. Lissy Anto P, St Joseph`s Colege, Irinjalakuda	10-12/ 06/08
21	Seminar	Value Oriented Teaching	Rev. Dr. Vincent Alappat, V G, Irinjalakuda Diocese	04/06/07

2.4.6 Evaluation of Teachers by Students and External Peers

The system of student evaluation of teachers has been in practice in this college for a few decades. External Peer Evaluation of the teachers is done by the University as an essential screening for promotion. The results of student evaluation done anonymously on a seven-point scale - professional knowledge, instructional planning, instructional delivery, assessment of learning, learning environment, professionalism and student academic progress - are ultimately passed on to the faculty at the end of every year. The results show the performance level of the teacher concerned in various parameters and this has

over the years helped our teachers to improve their attributes. The valuation results are communicated to the teacher by the Principal who gives proper counselling and opportunities and facilities to improve.

2.5 Evaluation Process and Reforms

2.5.1 Ensuring Awareness of Evaluation Processes

- The entire process of the evaluation in all its detail which mainly comprises internal and external examinations is made known to all segments of stakeholders through announcements made by the university much in advance whenever the system undergoes a change.
- Every teacher briefs the student regarding the steps and grade involved in the process of internal assessment at the beginning of the semester, which is recorded in the academic calendar issued to every student.
- Every student is well briefed on the process of evaluation of external examination/projects/viva-voce throughout the period of her study. It is even recorded in the academic calendar issued to every student.
- This information about the evaluation process is given to students and faculty through the academic calendar and timely notification.
- In the annual PTWA meeting, the whole evaluation process is clearly explained to the parents.

The Annual Scheme UG students had to take two examinations every year - the First Terminal and the Second Terminal Examinations. In addition to these, they have to appear for a model examination designed by the institution also just before the University examinations. The semester scheme students take two mid-semester internal examinations every semester.

Other than the University examinations, monthly class tests, terminal examinations and practical examinations are the main procedures of institutional evaluation. In addition, the assignments and presentations that the students make also are evaluated for the purpose of awarding internal assessment marks. Attendance percentage is also one of the criteria adopted for the award of internal assessment marks.

2.5.2 Major Evaluation Reforms of the University Adopted by the Institution

The major reform made by the University concerns the semester evaluation system and internal assessment system, grading system and grade points. For every paper, 20-25 % marks are allotted internally by the subject teachers. This helps to evaluate the student in aspects other than written examination system. The project and viva system introduced both in the UG and PG programmes also help the evaluation of students based on their creativity and efficiency in various aspects of their studies. Assignment, seminar presentation, internal exams etc., and active participation in the class form the basis of internal evaluation.

In an affiliating system like the one we follow, there is little scope for a college to introduce its own examination system. However, personal impressions of the teacher about the student have some weightage when class test or a seminar is

evaluated by him/her. The college as its own has introduced the following evaluation systems:

a) Internal assessment examination before the University Semester examination

b) Evaluation through Seminars, Posters, Assignments, GD etc.

c) Online objective pattern test and Open Book Examination

2.5.3 Ensuring Effective Implementation of the Evaluation Reforms

The University and the college have their own elaborate fool-proof mechanism to effectively implement any examination reform. The institution has little say in evolving an examination pattern except when these questions are taken up for discussion in University bodies concerned with examination. Almost all our teachers are University examiners in their subjects and they put forward their views and suggestions as and when a reform is introduced. But once a system comes into effect, the institution cannot have a course different from the one set out by the university. In the case of the internal examination also, the broad pattern is prescribed by the University and the colleges are expected to follow the pattern without fail. There is a college-level examination committee vigilant enough to see that reforms initiated are effectively implemented. A faculty links the University and the college in examination matters and this faculty keeps track of all the developments in the University's examination operations.

Internal exams are announced early enough and exam committee collects question papers from the teachers on a prescribed date. Internal evaluation is made based on prescribed norms given by the University. Grades allotted by the teachers are checked by the HOD and sent to the University on the prescribed date and in the prescribed format, after displaying on the notice board for the verification by the students.

2.5.4 Formative and Summative Evaluation Approaches Adopted

In the Formative Assessment every semester the student appears for two internals and the average of the two is taken as her score. These tests are diagnostic as well as remedial as they

    (a) provide effective feedback to students

    (b) allow for the active involvement of students in their own learning

    (c) enable teachers to take account of the results of assessment

    (d) recognize the profound influence that assessment has on the motivation and the self esteem of students, both of which are crucial influences on learning

Other means of testing such as quiz, interview, oral testing, practical examinations and assignments are also made use of. Scores of the assessment done periodically are shown to the students and parents so as to encourage continuous participatory improvement. These scores also form part of the results of the summative assessment.

Summative Assessment, the final assessment of performance at the end of every semester is external and is carried out by the university. It is a pen and paper test. The evaluation is carried out by the examiners appointed by the University and the teachers of the college hardly have any chance to evaluate the papers of their own students.

Formative and summative assessments have typically contrastive outcomes. The results of the formative test help the teacher to decide on the teaching-learning process according to the academic level of students while the other occurs at the end of a learning unit and determines how much of the content taught is retained by the student.

2.5.5 Monitoring and Communication of Progress and Performance of Students

This institution has in place a comprehensive system of monitoring the progress and performance of the students, and the results are communicated to the students concerned and their parents without fail. At present, this information is passed on to the parents in the open house meetings held after each examination. The system has been beneficial as an effective feedback for the parents and teachers on which they could take timely and appropriate action. It has also been advantageous as the most measurable feedback for the teachers on the effectiveness of the teaching-learning-evaluation process in practice in the institution.

Furnished below in table format is the programme-wise results and prominent achievements in respect of the final assessment of various programmes the institution offers. The table shows that students of almost all programmes have secured an excellent pass percentage for UG mostly above 90% and in many cases 100%. Biotechnology, Economics and Zoology have 100% pass in all the four years. BCom for which 35% mark was compulsory for each of the 15 papers for a pass, has near or above 90% pass. BBA having comparatively the lowest pass percentage has also good results varying from 72 to 94, though they need 50% for each paper to secure a pass. Thus the pass percentage depicts an excellent teaching learning atmosphere in this institution.

In PG, all the new generation courses like Biotechnology, MSW and MCJ have 100% pass, consistently for all the four years. For all the other subjects it is above 90%, except in two places. Thus the PG results also give an excellent picture. There are also 36 University Ranks in various disciplines during the period.

Programme-wise Results(UG) for the Last Four Years

Sl. No	Discipline	Percentage of Results				Comments & Achievements
		2008	2009	2010	2011	
1	BBA	80	72	82	94	Excellent Result. Remarkable progress,Majority have distinction
2	Biotechnology	100	100	100	100	First Rank in 2011
3	Botany	100	98	95	88	Majority joined for P.G
4	Chemistry	95	98	88	92	First Rank in 2009
5	Commerce	88	90	95	91	Excellent result Majority joined for P.G
6	Economics	100	100	100	100	Excellent Result, Majority joined for P G

7	English Literature	95	100	97	100	Second Rank in 2009
8	History	100	100	98	90	Second Rank in 2008, First Rank in 2009 Second Rank in 2010
9	Mathematics	95	95	98	99	Excellent Result, All the students are engaged in higher studies
10	Physics	94	100	100	88	Excellent Result, 15 students placed in WIPRO and INFOSYS in 2011
11	Zoology	100	100	100	100	First Second &Third Rank in 2008,Third Rank in 2011

Programme-wise Results(PG) for the Last Four Years

Sl. No	Programme	Percentage of Results				Comments & Achievements
		2008	2009	2010	2011	
1	Biotechnology	100	100	100	100	Second Rank in 2008 Second &Third in 2009 Third rank in 2010
2	Chemistry	100	82	92	100	Excellent result, Most of the students are employed
3	Commerce	70	94	94	90	Excellent result in 2009 and 2010
4	English Literature	90	100	100	95	Commendable
5	Mathematics	90	100	92	83	All the students are engaged in higher studies or employed in Higher Education Field
6	Social Work	100	100	100	100	First rank in 2009
7	Mass Communication & Journalism	100	100	100	100	First, Second &Third Ranks in 2009, Second &Third Rank in 2010
8	Cryptography/ Cyber Security	100	N A	N A	100	Cryptography: First Second &Third Rank in 2008, First & Second Rank in 2011

2.5.6 Improvements Made to Ensure Vigor and Transparency in Internal Assessment and Weightages Assigned

- The system of internal assessment for UG being practised in this institution under University guidelines since 2010 provides for continuous student-assessment by their teachers in the prescribed curriculum, knowledge, communication skills, attendance and interest and progress in a five point scale of letter grades (A,B,C,D and E) formulated by the University. 20-25 percent of the maximum marks in each paper is assigned for the internal assessment and the remaining 75- 80% marks for the annual/semester University examination.

Components of Internal Assessment

Theory course	Weightage	Grading
(a) Assignment	1	A, B, C, D, E
(b) Test paper (Min. 2)	2	A, B, C, D, E
(c) Attendance	1	below 75%- E, 75 to 79- D, 80 to 84-C, 85 to 89-B, 90 and above -A
(d) Seminar	1	A, B, C, D, E

- The internal evaluation is based on predetermined transparent system involving periodic written tests, assignments, seminars and attendance in respect of theory courses and based on written tests, lab skill/records/viva and attendance in respect of practical courses.
- To ensure transparency of the evaluation process, the internal assessment grade awarded to the students in each course in a semester is published on the notice board at least one week before the commencement of external examination. There is no chance for improving the internal grades. Each student is asked to verify her internal marks and acknowledge it. If they have any grievance, they can immediately approach the Head of the Department or the Principal and seek redress.
- The course teacher maintains the academic record of each student on the programme-rolls and these records are forwarded to the University (through the college Principal) to reach them on or before dates specified by the Controller of Examinations before each semester examination. Internal Assessment marks are shown separately in the mark-sheet issued by the University and these marks are added to the semester examination marks by the University for determining the grade of the student.
- The College has in place a Departmental Grievance Redress Cell (GRC) comprising two senior teachers as members, and the Head of the Department as Chairman. The Committee addresses all grievances relating to the internal assessment grades of the students.
- A college level Grievance Redress Committee also functions round the year to hear and decide on appeals from or against the department level GRC.

2.5.7 Use of Assessment/Evaluation as an Indicator for Evaluating Student Performance

Grades/Marks obtained on Assignment/Evaluation is considered as one of the indicators for evaluating student performance. The college level examinations we conduct to assess accomplishment of the learning objectives by the students are not always on University set patterns. The model or Pre-university examination conducted in the college is always in the pattern of the University examination. This is aimed at preparing the students for the university exam. Our intention in the change is to ensure that the skill and proficiency of the student is fully assessed in relation to the set objective. Thus the internal assessments made at the department level are fully designed based on the skills to be earned by the students at the end of the programme. The unaided skill development add-ons that we have attached to each and every UG programme are also processes by which we ensure that the students have acquired the requisite skills. Most of them are courses that invariably contribute to the student skills and industry acceptance of the programme.

Our faculty derive student learning indicators (grades) through systematic analysis of student projects, exams, or sets of specified course assignments which fulfill all the necessary conditions that go to make good evidence and vindicate learning outcomes of knowledge, skills, attitudes/values and behaviour.

The results of each semester are evaluated by each department. A thorough analysis is made and the outcomes of both the written and oral examinations are presented in the next monthly Evaluation and Planning meeting led by the Principal. Departments are, indeed, appreciated for good performance. Subject teachers explain positive and negative outcomes and chalk out future plans to improve the performance. Individual students are asked to record their future performance plan, in consultation with their parents in the PTWA meeting.

2.5.8 Mechanisms for Redress of Grievances Regarding Evaluation at the College and University Level

Regarding the internal marks awarded at college level, student can approach the Grievance Redress Cell of the concerned department immediately after the mark list is exhibited on the notice board. Grievances relating to the University examinations generally require formal settlement at the University level as per provisions contained in the University Statutes. Students can apply for revaluation if they are dissatisfied with the marks awarded. In rare cases, when the marks of a group of students are affected students can approach directly the Controller of Examinations or VC.

2. 6   Student Performance and Learning Outcomes

2.6.1 Clearly Stated Learning Outcomes

Every programme has its learning outcomes clearly stated and these learning outcomes are set out in unmistakable terms by the University itself as preface to the syllabus or curriculum. The staff and the students therefore are well informed of these outcomes even before they commence teaching or learning the syllabus.

A copy of the learning outcome along with the syllabus is handed over to each faculty and student.

2.6.2 Structuring of Teaching, Learning and Assessment Strategies to Facilitate the Achievement of the Intended Learning Outcomes

It is the learning outcome that determines the strategies of teaching, learning and assessment in this institution and structuring of these strategies of this institution are integrative, sequential and coherent (not independent modules). They are so designed to ensure that the learning outcomes are positively achieved. There is ample planning and mapping beforehand to allow space in the curriculum for students to learn in different ways at different rates. Enough time is also set apart for creativity, knowledge depth (difficult concepts) and personal growth. It also ensures that there is essential balance between lectures, seminars, and self-directed and autonomous learning activities in the programme, providing for generating among the students a desire for enquiry and research. Coming to assessment, we have assessments for learning, and of learning. As students learn in different ways and experience different social and cultural circumstances, assessment is designed as an inclusive strategy that accommodates all students. The assessment strategy also allows the students opportunities to self-monitor their own work and that of the peer. In case of ability of a student to achieve learning outcome, remedial coaching, peer teaching etc., are adopted to improve the situation. Student feedback at the end of each semester tells us whether the learning outcomes are achieved.

2.6.3 Measures/Initiatives Taken up to Enhance Social and Economic Relevance of the Courses Offered

We introduce new programmes for a variety of reasons. Some are in response to demand from the industry; others are driven by student interest and help the college attract and retain students. Students always look for relevant, current disciplines. We often take a look at the new majors that help prepare students for jobs across the wide array of fields from technology to management. But all of them have one thing in common: they are designed to train students in emerging areas of study and acquire the skill that shape today's economy. This is so not because the university to which this college is affiliated has designed the curriculum to be industry relevant. As majority of the subjects offered by the university are traditional, we make them employment oriented tagging on to them modules that are skill oriented and women specific. There is not a single programme on offer here, without a tag-on to it. To innovation and research too, we have attached due prominence. We have among our academic programmes a PG degree in Cyber Security, an innovative programme in emerging area sanctioned by the UGC. MSc Biotechnology, MSW and MCJ pave the way to higher level vocations as well as social relevance. We have Economics and History at UG level; but sociology and tourism are added as the subsidiary subjects to make it socially and economically relevant. BCom with two streams-Finance and Computer Science, BBA and BCA. are sought after flourishing courses. MSc Mathematics and MSc Chemistry are research oriented and the

college has now four Research Centres- Mathematics, Chemistry, Commerce and English. National/International Seminars are conducted and the students are encouraged to present and publish papers. Every PG course has research projects which prepare them for undertaking research in the future.

Exhibition cum sales conducted in the college campus by women entrepreneurs, are aimed at preparing students for entrepreneurship. Seminars and talks by experts, visits to industries, internships, projects and placements, coaching for NET/PSC/Bank test/IAS etc., are aimed at promoting entrepreneurship and employment.

2.6.4 Collection, Analysis and Use of Data on Student Learning Outcomes for Planning

Our system of collection and analysis of data related to student learning outcomes is based mainly on the following format maintained programme-wise by the departments:

1. Tools or methods used to measure achievement of the learning outcome:
   a) Internal & External Assessment b) Feedback from stakeholders c) Employment rate

2. Method of collecting data from these tools and/or methods:
   Internal assessment results and University examination results, scores of feedback

3. Procedure to analyze the data -   Departmental Review

4. Results of Evaluation are imparted to students for their betterment. Any barrier in learning revealed through feedback and assessment is communicated to authorities.

5. Evaluation Results are used for recommendation for changes in curriculum to the University, for student employment in other institutions, and for higher studies.

Planning: The result of evaluation and feedback reveals if any barrier exists in achieving the learning outcomes. Steps are taken to **remove the barriers** while planning for the next semester. Data collection on placement due to implementation of Add-on courses is in the process. In fact, the addition of vocational module to each programme is a result of prior planning on the basis of analysis of previous learning outcomes.

2.6.5 Monitoring and Ensuring Learning Outcomes

PET conducted soon after the admission gives us an idea about the caliber of the students. Under the mentoring systems, mentors/tutors try to understand each student personally. Students with learning difficulties are given special coaching, remedial classes, English and communication classes etc. Under the 'Each one Teach one' system, the cream layer students help others giving personal attention and care.

The Academic Excellence Committee of the college functions as the **Learning Outcome Assessment Committee** entrusted with the responsibility to monitor the institutional learning outcome and achievement by periodic and systematic review of the outcome of all programme offerings of the institution and work for

improvement at each step by,

a) Periodic and systematic review of the outcome and achievement of all programme offerings of the institution and recommending to the curriculum framing bodies of the University appropriate changes, modifications and alterations of the concerned programmes through faculty members who are also members of such bodies. They may also at times strongly recommend for the sanctioning or generating of new courses in emerging areas of knowledge or industry. Such recently recommended UG Programmes are BCA and BCom with Computer Applications.

b) Coordinating the collection and analysis of assessment data

c) Giving directions to the PG departments to incorporate the methodology to equip the students through NET/JRF examination coaching, the outcome of which has been commendable.

2.6.6 Ensuring Attainment of Graduate Attributes Specified by the College/Affiliating University.

A Higher Focus Course (HFC) is designed by the institution to ensure that the students who graduate from this institution has certain specific attributes, besides those expected by the University. In addition to the hard skills related to the particular discipline, proficiency and in-depth grasp, a graduate is supposed to be in possession of the following soft-skills as graduate attributes on completion of her bachelor degree course in this institution:

- Communication skills (spoken and written) of global requirement level
- Computing skills of universal application
- Social and ethical values of high standards
- Application skills
- Problem-solving skills
- Team-work skills
- Self-motivation and focus on outcomes
- Ability to actively pursue further learning by querying and investigating issues at hand and further formal specialized studies (lifelong learning skills)
- Commitment and dedication to achieving life goals
- Finally, to be transformed into an **empowered and liberated woman**

As discussed earlier at appropriate places, this institution provides specialized training in all the above skills incorporating into the programme structure appropriate short-term modules in the form of add-on/certificate/value education courses.

Other Relevant information:

Plenty of cultural exchange takes place in this campus - Students from Oxford University, St.Stephen's College, Delhi, Expert in Cyber Security from Australia, Expert of Journalism from Philippines, Professors of Management from various American Universities etc., had interaction with our students.

Outcome

The teaching learning and evaluation methods the college has employed with necessary and timely updating down the years have without doubt helped the college earn the reputation as one of the best colleges in the University of Calicut. It is the teaching learning and evaluation practices, more than anything else, that have enabled us to secure the top pass percentage consistently for many years, and to bag the Sr. Hedwige Award for the best college in the country for imparting value based quality education.

The teaching techniques mirror the student-friendly and research-oriented attitude of the faculty, gained from the large number of projects undertaken, seminars and workshops organized and attended and training courses undergone. The students have benefitted from these teaching techniques and also from their exposure to the world-class knowledge gained through visitors and resource persons. Their participation in seminars and class room discussions, and debates and remedial measures undertaken has also contributed to their better performance. This is reflected in the enhanced number of ranks and pass percentage secured, awards and recognitions won, and also in the relatively high demand-admission ratio maintained throughout. Apart from the University stipulated assessment measures, the institution follows its own distinctive evaluation techniques which have provided ample opportunities for improving the teaching learning process employed here.

Future plans:
- To start new Programmes in new areas like Nano Technology, Computer Animation and Film Making
- PG Programme in Physics, Botany and Zoology
- Research centres in the departments of Botany and Zoology
- One International Seminar each by all PG departments in alternate years
- One International Workshop each by all Research Centres
- National Seminars by all departments on a yearly basis
- Publication of Research Journals of International Standards by all Research Centers
- More paper presentations by faculty in Foreign Countries
- Faculty and Student Exchange Programmes at national and international level

Criterion III
Research, Consultancy and Extension

St.Joseph's College gives due importance and thrust for the development of research, consultancy and extension in all disciplines and it has **four research centres** - **Mathematics, Chemistry, Commerce and English**. It has provided well equipped laboratories and state of the art library for facilitating research in various subjects. Students are also encouraged to participate in national and international conferences organised by the college and other institutions. Almost all departments of our college have some sort of consultancy, research linkage or academic collaboration with other reputed institutions. The departments undertake extension work, both academic and non-academic.

3.1 Promotion of Research

Research is vibrant in our campus and it is recognised as part of our teaching exercise. The faculty and students under the leadership of our Principal, Dr. Sr. T K Anee, a research scholar who was fortunate enough to get guidance and inspiration from the veteran scientist and former President of India, Dr. A.P.J. Abdul Kalam, are involved in acquiring the highest level education through research oriented teaching and learning.

3.1.1 Research Centres

This Institution has four research centres recognised by the affiliating University-University of Calicut.

Details of Research Centres

Centre of Research	Year of Approval
Commerce	2012
English	2012
Chemistry	2010
Mathematics	2002

3.1.2 The Research Committee of the College - GRACE

The college has a fully functional research promotion centre called GRACE (Guidance for Research and Assistance for Consultancy and Extension) operating since 2004, augmenting the promotion and development of research activities and research excellence of the college.

The composition of the centre comprises – Principal as the Convener, Vice Principals as joint conveners, Executive members nominated by the convener which include faculty from Science, Literature, Humanities and Commerce, preferably research guides. The IQAC convenor is also a member of GRACE and provides direction to function according to the quality norms envisioned by IQAC and NAAC.

The recommendations

- Publication of annual interdisciplinary research journal 'RAYS' was a 2007 recommendation of IQAC and GRACE, and was implemented in the same year. RAYS was recognized as a registered publication in 2009 and has been raised presently to International status with ISSN No. 2319-5770 under the

name 'VISTAS', a Multidisciplinary Research Journal' from the academic year 2011-12

- Consultancy Assistance to the faculty to apply for Major and Minor Projects was the next attempt made by GRACE which effected in a significant increase in the number of faculty in undertaking projects, the number and outlay of the projects done in the college, and the number of publications. At present the institution can claim a total of 34 funded Minor Projects. Two Major Projects have been shortlisted by UGC, 120 research paper presentations were made in National/International seminars and 256 publications came out in National/International journals/proceedings of seminars (figure 3.1.5).

- Application was submitted for PG Diploma Course in Cryptography as an innovative PG programme. The course was sanctioned during the XI Plan with a grant of Rs. 55 lakhs which is converted to a PG programme in Cyber Security.

- DST sanctioned Rs. 28.5 lakhs in 2009 for research infrastructure development of the Department of Mathematics and Department of Chemistry.

- There was commendable increase in the number of funded workshops/seminars organised by the departments. During the last five years 14 research oriented workshops/seminars were organized for the faculty, PG and research students of various departments under the guidance of GRACE.

3.1.3 Measures taken by the Institution for Smooth Progress/ Implementation of Research

The institution has the policy of promoting and ensuring smooth progress/implementation of higher research by ensuring that the faculty members pursuing MPhil/PhD assignments are sanctioned leave under FIP. During the last five years 11 faculty were granted leave for pursuing PhD studies. In addition, 14 faculty have been undergoing PhD studies on part time basis. Such faculty were granted leave for completion of research, on request.

Principal Investigator is rendered complete but responsible autonomy in research project- from the initial Project preparation to the final publication of the results. The funds sanctioned by the Central/state government to the Principal Investigator are released without delay according to norms stipulated. The necessary infrastructure as well as human resources to take up research projects are provided. Under the service conditions of the teachers governed by the State Government Rules framed for the purpose, teachers pursuing research under schemes like TFS/FIP are favoured with full-pay and other permissible allowance for the period and they are granted deputation for research degrees. The Management and the Head of the Institution offer all the required support. This institution, equipped with facilities of information technology, is always at the disposal of the researcher-teacher, absolutely free of cost. Facilities including lab, library, computers and internet are permitted to be accessed to undertake minor and major projects as well. Ministerial assistance for all official transactions and financial settlement formalities is provided.

Outcome: A total of 25 faculty undertook PhD studies during the post accreditation period (11 under FIP and 14 on part time basis), of whom 13 are already awarded PhD. 34 projects were also undertaken by the faculty during the period, of which 22 are successfully completed.

3.1.4 Developing Scientific Temper, Research Culture and Aptitude among Students

The institution promotes Scientific Temper/Research Culture among students through

- Promotion of the use of ICT and modern technology and by introducing the students to the virtual lab
- Creating an ambience of vibrant research activity on the campus through National/International research seminars, working/discussion paper series, research oriented departmental publications, invited talks and increasing amount of faculty consultancy and the programmes and procedures of the research centres (More than 150 eminent resource persons in various disciplines have visited the college and interacted with the students.)
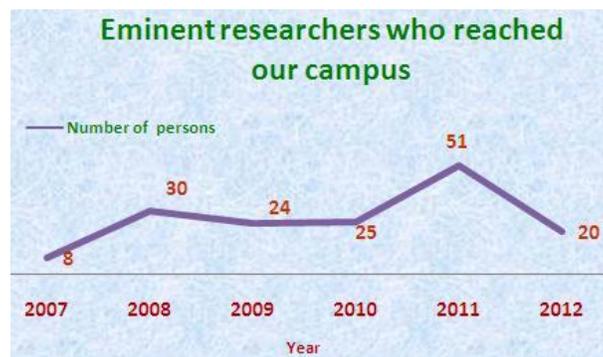
- Complete involvement of PG students in all the processes concerning research activities, including seminar paper presentations
- Arranging workshops and classes in research methodology (Projects undertaken by PG and UG students are guided by the faculty in such a way that genuine interest is created for research.)
- Ensuring the involvement of students (Faculty engaged in projects, research and extension activities take care to involve students in various stages of their research work and prepare them.)
- Availability of rich research library resources (Subscription to **3000 e-journals and 75000 e-books** through N-List offers the students a treasure of knowledge. Library has a research wing for promoting research endeavours exclusively.)

3.1.5 Faculty Involvement in Research

Faculty as Guides

The faculty of various departments are involved in guiding MPhil and PhD students in research centres of our institution as well as in centres of other universities (MG University, Kottayam, Bharatiar University and Karpakam University). Departments of Mathematics, Chemistry and Commerce have two

research guides each. Hindi and Zoology have one guide each. Altogether there are 20 research scholars.

Faculty Leading Research Projects

The members of the faculty had taken up and completed a number of research projects funded by the UGC and other agencies during the last four-year period. There are 22 completed projects and 12 on-going projects during the period which include interdisciplinary projects, industry related students' projects and projects of state and local bodies.

Guiding students' research projects is a part of teaching in this institution. Our faculty members evaluate the dissertations of PG, MPhil and PhD of other Universities also.

Faculty Engaged in Individual/Collaborative Research Activity

Faculty have published and presented a large number of research papers in various National/International seminars in their individual capacity and in collaboration with associates- leading to a presentation of 120 papers in National and International seminars and publication of 256 research papers in National/International journals/proceedings of seminars.
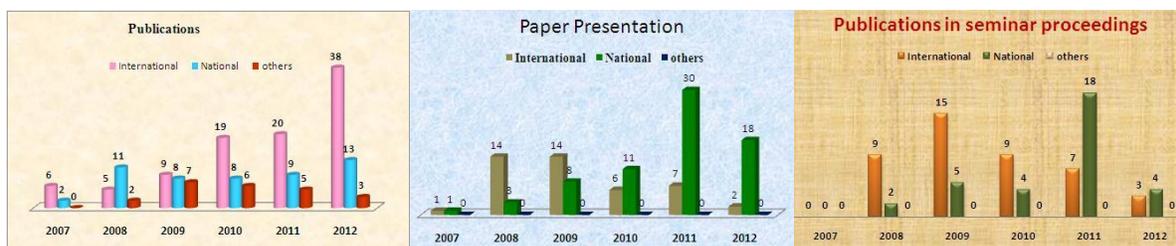
3.1.6 Workshops and Programmes for Capacity Building and for Imbibing Research Culture among the Faculty and Students

This institution has been involved in capacity building in terms of research by taking up several endeavours as follows:

- During the last four years the departments organized 15 National and 8 International level seminars/workshops. Research papers of scholars, PhD and PG students were invited and papers presented were published in 12 seminar proceedings.
- The students are guided in their UG/PG projects on research oriented areas and their work compiled into chapters of books/journals published by the concerned departments.
- The research study groups in the respective research centres actively promote research culture among students. This centre produced two PhDs and one scholar is awaiting open defence for PhD. At present nine researchers are pursuing doctoral research at the Centre of Mathematical sciences of whom one is full time Teacher Fellow and eight are part-time research scholars who are Assistant Professors in other HEIs. The research centres of Chemistry, Commerce and English have started their functioning actively.

- INFLIBNET facility offered by the Library, Virtual Lab facility in collaboration with various research institutions etc., promote research aptitude among students.
- Researcher of the year award in Arts and Science is instituted.
- Paper presentation competition under the auspices of IQAC is conducted.
- Various departments have linkages with National/International research organizations for higher academic support as well as funding during organizing of National/International seminars.

The Table below gives the details of some of the workshops conducted for capacity building and for imbibing research culture among faculty and students.

The Workshops /Programmes/Conducted For Faculty and Students

Sl. No.	Date	Theme of the workshops/Programmes	Resource Person
1.	09/11/12	Category theory	Prof. T. Trivikraman, Formerly, Dept. of Mathematics, CUSAT
2.	07/09/12	Research Methodology	Dr. K. T. Thomas, Chirst College, Irinjalakuda
3	04/12/11	Perfect Sequence Constructions	Prof. K. T. Arasu Wright State university, USA
4	04/12/11	Post-colonial rewritings	Dr. Muraleedharan T, Associate Professor and Head, Dept. of English, St. Aloysius College, Elthuruthu, Thrissur
5	16/07/11	Project Preparation	Dr. Sindhu, Associate Professor, Dept. of Economics, Kerala Varma College, Thrissur
6	16/07/11	Research Methodology	Dr. P. Vasanthakumari, Associate Professor, NSS college Ottapalam
7	07-09/06/11	Algebraic Methods in Combinatorial Design Theory	Prof. K. T. Arasu, Dept. of Mathematics, Wright State University Ohio, USA
8	24/03/11	Hermeneutics of Rewritings	Dr. M. V. Narayanan, Professor and Research Guide, Dept. of English, University of Calicut
9	09/01/08	Research Journals : Their nature, spread, classification and function	Dr. Joji Chandran, Professor, Karunya University
10	08/07/07	Fuzzy Logic	Prof. Bhaumik R. N, Tripura University

3.1.7 Prioritised Research Areas and the Expertise Available with the Institution

Several faculty of this institution are actively engaged in higher level research programmes. Given below is a list of areas that the institution has prioritised in research and the expertise available for supervising and guiding research.

Prioritised Research areas and the Expertise available with the Institution

Sl. No.	Department	Prioritised Areas and Expertise	Research Supervisor/ Expert
1.	Biotechnology	Tissue engineering	Dr. Viji Mary Varghese
		Biochemistry	Dr. Kavitha O
		Plant tissue culture	Dr. Viji M. O.
2.	Botany	Physiology and Biochemistry	Dr. Beena Anto K
		Phyto Chemistry	Dr. Egy T Paul.
3.	Chemistry	Supported coordination complexes and catalysis	Dr. Pearly Sebastian Chittilappilly
		Coordination Complexes	Dr. Sr. Lilly K O
		Theoretical Chemistry & Computational Chemistry	Dr. Rosabella K Puthur
		Coordination Complexes	Dr. Deena Antony
		Catalysis	Dr. Binsy Varghese V
4.	Commerce	Financial Management	Dr. Philo Francis
		Financial Management	Dr. Jancy Davy
		Human Resource Management	Dr. Sr. Rosa K.D
5.	Economics	Industrial Economics	Dr. Valsa John C
6.	English	New Historicism, Literary Theory	Dr. Rani Paul Ukkan
		American poetry, Children's literature	Dr. Asha Thomas
		Post-Colonial Literature	Dr. Sarala Joyce Christopher
		Children's Literature	Dr. Shali Anthappan
		British Theatre, Postmodern Literary Histography	Dr. Sajo Jose
7.	Hindi	Ancient Poetry	Dr. Sr. Rose Anto
8.	Mathematics	Ordered distribution Topology, Lattice Theory Ordered Sheaves	Dr. Mangalambal N R
		Fuzzy Mathematics	Dr. Mangalambal N.R., Dr. Sr. Lilly P.L. and Dr. Rani M. J.
		Lie Algebra	Dr. Sr. Lilly P.L.

		Cryptography	
		Frames in Topology	Dr. Philomina M. T.
		Bioinformatics	Dr. Sr. Lissy Anto P
9.	Physics	Crystal growth	Dr. Sr. Anee T.K.
10.	Social Work	NGO Management and Women Empowerment	Dr.Sr. Jessy K C
11.	Zoology	Vector Biology & Angiogenesis	Dr. Aneesh E M
		Biochemistry	Dr. Sr. K V Anis
		Immunology	Dr. Gigi Poulose

3.1.8 Visit of Eminent Researchers

The Institution cherishes the exciting moments of visits of eminent researchers like Dr. A. P. J. Abdul Kalam- the great Atomic Scientist and former President of India, Dr. Tessy Thomas- Director, Agni Five Missile Project, ISRO, Dr. Joseleen Jose-Senior Scientist, Central Marine Fisheries Research Institute (CMFRI), Cochin and Dr. Anuradha Krishnan-Project Director, G-Sat-12, ISRO, Thiruvananthapuram and many others.

The academic seminars our departments convene at the National and International level gather global level experts and researchers in our campus. Our faculty take interest in bringing outstanding researchers from various research institutes with which they have academic and personal connections. The number of eminent researchers who visited this institution extends to more than 150 (3.1.4). Given below are the names of a few of them who had interactions with faculty and students.

Eminent Researchers who visited this Institution

Sl. No.	Eminent Researcher	Topic	Date
1.	Dr. Tessy Thomas, Director, AGNI 5 Missile Project, DRDO	Science & Communality	18/02/12
2.	Prof. M. Venimadhavan, Indian Institute of Science, Bangalore.	Integer Factoring and Discrete Logarithm Problems	06/12/11
3.	Dr. Jennifer Seberry Cyber Scientist and Professor Wolfgong University, Australia	Who is Afraid of Microsoft?	04/12/11
4.	Dr. K.T. Arasu, Professor, Wright State University, USA	Combinatorial Design Theory	04/12/10 & 07-09/06/11
5.	Prof. Bushan Patwardhnan Director, Institute of Ayurveda and Integrative Medicine, Bangalore	Herbs and herbal products	29/09/10
6.	Dr. A.P.J. Abdul Kalam Atomic Scientist and Former	Human Face of Scientific Research	29/01/10

	President of the Indian Union		
7.	Dr. Tony Henthorne University of Nevada, USA	Global Financial Crisis	31/07/09
8.	Prof. V. Kannan, University of Hyderabad	Hereditarily Homogeneous Spaces	20/03/09
9.	Prof. M. Rajagopalan, College of Arts and Science, Tennese State University, USA	Recent Trends in Topology and its application	13/03/09
10.	Prof. Clare Bradford Deakin University, Australia	Workshop on Children's Literature	15/09/08

3.1.9 Utilization of Sabbatical Leave for Research Activities

Our faculty make use of their holidays and vacation on purposes related to research since the service conditions of College Teachers in Kerala state do not provide for Sabbatical leave. A good number of teachers have successfully completed their PhD as part time researchers. The institution offers generously its research facilities and equipment in the library and laboratory, computer and internet etc., for the use of researchers and provides a research culture in the campus.

3.1.10 Initiatives in Creating/Advocating Research Awareness

This institution focuses on research that applies science and technology to problems of human need, social advancement, and economic development. The *lab to land* and *campus to community* research culture is fast spreading in the research atmosphere of our campus. The outcome of research initiatives taken up by the departments is as follows.

- Conduct of state/National/International seminars provided a platform for interaction between experts, research scholars and student with original research papers by faculty and students as the outcome.
- Interactions with eminent researchers and scientists were arranged.
- Various days like Ozone day, Ramanujan day, CV Raman week etc., were observed.
- Competitions in wall magazines and assignments on latest research findings and inventions inspire students for future research were conducted.
- The findings of the PG projects carried out in the institutions outside the campus have been compiled into books/journals.
- The findings of research work in the department of Biotechnology are transformed to the land in various forms and plants produced through tissue culture technique are planted in the campus.
- The use of solar energy, Biogas plant, water harvesting, production of mushroom and vermi-compost, water and soil analysis etc., was undertaken.
- The project findings of Zoology department on 'Induced breeding of endemic fish, Anabas testudiens', were successfully implemented as an acceptable method of rearing fish.

- A project on 'Impact of Globalisation on the Business Environment of Irinjalakuda' was conducted in the Department of Commerce and its findings and valuable recommendations conveyed to business people and also presented in papers and ICSSR sponsored seminars.
- A number of student-projects of socially relevant issues such as socio-economic and environmental problems brought about by chemical pollution, health and medicine, child labour etc. taken up and carried out by Social Work Department provide an arena for sharing ideas, alerting the local community regarding their needs, resources and preventive measures.

3.2 Resource Mobilization for Research

3.2.1 Budget and Utilization for Research

A total of 10.65 percentage of the total budget has been earmarked for research budget during the report period.

Budget and Utilization for Research

Particulars		Inter-disciplinary Research	Conferences	Equipment for Research	Books & Journals	AMC &repairs	Chemicals & glasswares	Building maintenance	Percentage to total budget
07-08	B*	2500000	6000	2000000	550000	72000	300000	800000	96.75
	S*	2341854	6000	1988254	522212	72018	295261	800356	
08-09	B*	230000	200000	1000000	1000000	125000	250000	700000	101
	S*	226681	221200	1052857	977352	125465	240410	701322	
09-10	B*	330000	85000	420500	160000	115000	26000	9020000	94
	S*	321259	84000	420415	158492	114332	25765	9019474	
10-11	B*	215000	320000	640000	980000	72000	560000	3200000	93
	S*	213037	320000	631253	980673	71398	551283	3177997	
11-12	B*	170000	250000	530000	470000	160000	500000	640000	99
	S*	162429	245000	531981	465241	156399	509674	634123	
12-13	B*	200000	250000	550000	50000	15000	500000	650000	

B*- Budget, S*- Spent

3.2.2 Provision of Seed Money

The management of this institution generously supports the faculty till they avail of UGC funding. As an aided affiliated college, its budget has no provision for giving seed money to the faculty. Faculty undertaking research projects are given seed money by the management on request, which is refundable on receipt of funds by the faculty. In the publication of the research journal with ISSN: 2319-5770, 'VISTAS', the management has borne 50% of the expenses.

3.2.3 Financial Provisions to Support Student Research Projects

The Departments provide a number of facilities supporting student projects. Internship projects of all programmes are arranged by the departments sparing the students the expenses connected with it. The infrastructural support include laboratory facilities, computer lab and well-equipped library is offered to them completely free of cost. Students with financial difficulty are identified by faculty

and provisions are made to help them. Efforts are made to secure funding from agencies like UGC. Department of Chemistry received Rs. 8000 each for two PG students from KSCSTE, and summer research fellowship of science academies for science project for three more students. One student from Mathematics department won the 'Inspire' scholarship for her project, worth Rs. 80,000 for five years. Deserving students from MSW receive Rs. 9000 each every year for the same from the endowment in the name of the Founder Principal. This provision is offered by "Sr.Mary Franco Memorial Educational Charitable Trust" as well (Registration Number 214).

3.2.4 Inter-disciplinary Research

The institution's research activities give emphasis on undertaking inter-disciplinary research in the form of
- Inter- disciplinary topics allotted for PG projects
- Seminars/Workshops on interdisciplinary areas

Faculty take up funded projects on inter-disciplinary topics. A successful outcome of such ventures has been the Innovative PG programme in Cyber Security funded by UGC. Three of the researchers working in the research centre of Mathematics are undergoing their PhD studies on topics combining Mathematics and Informatics. Fourteen interdisciplinary projects are undertaken by our faculty.

Challenges experienced in organising interdisciplinary research:
1. In depth knowledge in all the disciplines concerned in the undertaken interdisciplinary research
2. Time involved in literature survey/lab work
3. Availability of experts for consultancy
4. Effective sharing of laboratory equipment and facilities by the departments concerned

3.2.5 Optimum Use of Equipment and Research Facilities by Staff and Students

The college has a satisfactory system of inventory to ensure that departments make optimal use of the institutional research resources, facilities and equipment. Following are the measures taken.
- An unfailing record maintained, of all resources available
- Faculty/staff training for operation and maintenance after use
- Making available consumables/spares, service and operating manuals
- Encouraging cross-departmental use and stock checking of equipment/facilities
- Substantial investment in the up-gradation of its laboratories, libraries and information centres especially in acquiring e-resources of books and journals for pursuit of excellence in the respective subject areas

Above all, the IQAC is in constant touch with the heads of departments to see that the resources under their care are used optimally by the faculty and students.

3.2.6 Grants from Industry/Other Beneficiary Agency for Development of Research Facility

Various departments in this institution have received grants from industry/other

beneficiary agencies for the development of research facility. Details are given below.

Grants from Industry/Other Beneficiary Agency

Funding agency	Department	Purpose	Amount
DST	Mathematics and Chemistry	Research Infrastructure Development	28,50,000
Wipro	Mathematics	Conduct of National/ International Workshop	1,90,000
DST	Mathematics	Conduct of International Workshop	75,000
Indian Trade Foundation	Commerce	Conduct of National Seminar	15,000
Lions Club Irinjalakuda	College	Bio Gas Plant	30,000
K.S.E Ltd.	College	For Education and Research	1,00,000
Subramania College of Engineering and Venamol Transports	College	Creation of Docufiction on the History of the College	1,00,000
M/s. Kannan Devan Tea Plantation	College	Conduct of Spoken English Classes	50,000

3.2.7 Support Provided to the Faculty in Securing Research Funds

The faculty are supported and encouraged by the college authorities to apply for funds and projects for research. Ministerial support and relevant information are received from the administrative section in order to apply for research grants from various agencies. The IQAC and the GRACE also provide the essential information as well as furnish the necessary documents. The details of various Projects undertaken and grants received during the last four years are shown in the following figure(Details are given in 2.4.4).

Projects Undertaken During the Last Four Years
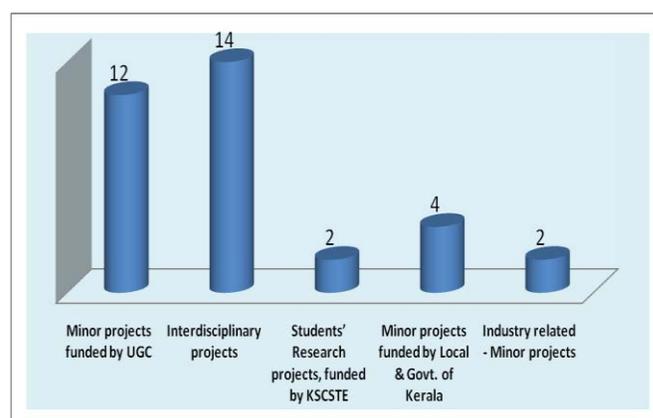
3.3 Research Facilities

3.3.1 Research Facilities to the Students and Research Scholars

The institution is always enthusiastic in the promotion of research activities and in empowering researchers to undertake challenges. The four research centres- Mathematics, Chemistry, Commerce and English- have efficient supervisors who provide all round support and coordination to research activities. The available facilities include the following.

- Cabins/ special rooms for studies and discussion with guides
- Special library books and journals
- PC, Laptops, LCD, Printer, Scanner cum copier etc.
- Computational facility with essential relevant software support and Library facilities
- Physical infrastructure (networks, servers, AV Equipment, system-related gadgets etc.) support of individual desktops, campus wide services such as e-mail and central file storage and key college management information and communication systems

INFLIBNET is a storehouse of e-books and full-text journals and a haven to research scholars. Virtual lab facilities in collaboration with agencies like Amrita University are also available

- **Centre for Research in Mathematical Sciences:** The Centre comprising disciplines of Mathematics, Statistics, Computer Science and Cyber Security, has two authorised guides and one more faculty awaiting approval for guide ship from the affiliated University. The department has a developing research library with books on frontier research areas provided by NBHM (DAE) under MathScinet consortium agreement.
- **Centre for Research in Chemical Sciences:** The Centre has well equipped laboratories and one exclusively for Gemological investigation. The Chemistry Department maintains research instrumentation facilities for structure determination and assessment of thermodynamic studies and kinetic studies.
- **Centre for Research in Commerce:** This Centre has two research supervisors and has a commendable research oriented collection of books and journals. The business lab arranged by the collective effort of students under the guidance of the faculty is an innovative step in research efforts.
- **Centre for research in English:** Three faculty in this centre await research guideship from the affiliating university. Plenty of books, journals and CDs and language lab with modern software are available.

Besides the authorised research centres, departments like Botany, Zoology and Biotechnology are also doing serious research work in their respective disciplines.

3.3.2 Planning, Upgrading and Creating Infrastructural Facilities

Strategic research planning is the responsibility of the Research Council comprising the representatives of the Management, College Administration, Research Supervisors and representatives from GRACE and IQAC.

- The strategic plans formulated jointly by researchers' body and the concerned departments have well-defined and explicitly-stated contexts, goals, procedures and outcomes for every project proposed. As soon as the sanction for starting a PG course is obtained from the University, steps are taken to see that the Lab and Library facilities are upgraded in such a way, that research is also possible for the faculty and students.
- Industries are also contacted to find out research needs, areas, scope and relevance of research proposals.
- Experts are invited to serve the Research wing even from other Universities. For example, Prof. T. Thrivikraman, eminent Mathematician, formerly, Head of Department of Mathematics, CUSAT was taken in as Academic Director when the Research Centre in Mathematics started functioning.
- The priorities and requirements of the departments for infrastructural upgradation are considered.
- Funds are raised by the management as well as from other research funding agencies. In consultation with experts in other centres, infrastructure and equipment requirements are assessed, budget prepared and funding agencies contacted.

3.3.3 Instruments/Facilities Created through Special Grants from the Industry or Other Beneficiary Agencies for Developing Research Facilities

The institution has received special grants and finances from various agencies for developing research facilities. It includes

- The purchase of equipment bought under the innovative research programme MSc Cyber Security funded by UGC is to the tune of Rs. 20,00,000.
- Infrastructure development assistance availed from the Department of Science and Technology, Government of India, is to the tune of Rs. 28.5 lakhs. PG Grant (Rs.19 lakhs) received from the UGC. Equipment and books purchased are also helpful in research. In support of augmenting research facilities such as expansion of research library, the Department of Mathematics has been granted supply of research books published by NBHM (DAE).
- The conduct of National/International seminars, which is an essential part of research development, utilizes the funds sanctioned by agencies such as DST, WIPRO, NBHM, IMU etc. to the tune of Rs. 3,75,000.

Equipment and facilities created are given below:

Research Equipment/Facilities

Sl.No.	Item	Agency	Amount
1.	Gas Chromatograph & FTIR	DST-FIST	1901900
2.	Computer (4)		130000
3.	Matlab, Gaussian, Gaussview		175000
		Grand Total	**2076900**

3.3.4 The Research Facilities Made Available Outside the Campus

- Off-campus research facilities are offered to the UG/PG students to do the project works undertaken in the industry/institute outside the campus as part of their course of study or internship.
- Various departments have linkages with research promoting institutions and industries. These linkages are availed for taking up student projects and higher research work (refer 3.7.5).
- Students of Biotechnology make use of research facilities in research institutes like Amala Cancer Research Centre.
- Some of our faculty have research guideship in research centres of other universities. Students/research scholars make use of facilities of these centres too.

3.3.5 Library/ Information Resource Centre for the Researchers

- Books and journals facilitating research in concerned subjects are purchased according to the recommendation of the departments.
- Central Library has separate reference sections and carrels for researchers. A section of the library is set apart only for the display of research journals and for references by researchers.
- **75000 e-journals and 3000 e-books** offered by INFLIBNET are available for research scholars.
- Virtual lab facilities in science departments make research more experimental and realistic for the faculty and students.
- Part of our four year old Digital Library Initiative - the Digital Repository Service (DRS) - provides a set of professionally managed services to store, preserve, and provide access to digital objects over time.
- A relevant online listing of websites of manuscripts, archives, rare books, historical photographs and other primary sources for research is available for the research scholars.

3.3.6 The Collaborative Research Facilities

- In developing collaborative research infrastructure amenities, the research centres of Mathematics and Chemistry have availed of the funds sanctioned by DST under the programme FIST to the tune of Rs. 28.5 lakhs for facilities such as well-equipped computer and chemistry labs for higher research activities.
- The innovative research programme MSc in Cyber Security under the funding of UGC has helped in developing a separate Cyber Security centre which undertakes Industry oriented projects and higher research works leading to PhD studies.

3.4 Research Publications and Awards

3.4.1 Major Research Achievements of Staff and Students

- Dr. Teji K T of Zoology department discovered *a new subspecies of fish* through her Doctoral work and application is submitted for obtaining patency for the use of species.

- Tissue culture experiments in Biotechnology led to production of *different varieties of plants*.
- Zoology department has achieved *induced breeding of endemic fish 'Anabas testudiens'.*
- The research papers under the guidance of Dr. Mangalambal N R and Dr. Sr.Lilly P L had been presented during the highest research programme namely *International Congress of Mathematicians (ICM)*, 2010 held in Hyderabad, the event in which Fields medals (Nobel prize in mathematics) are declared once in every four years.
- Commonwealth Split site Doctoral Fellowship was awarded to Dr. Viji Mary Varghese of Biotechnology Department.
- The PG students of Social work department carried out a study regarding Waste Management of Nitta Gelatin Pvt. Ltd. in Kadukutty Grama Panchayat. The conclusion of the study was that the poisonous chemicals released, created severe water pollution which lead to development of cancer. Presently, this has been taken up as a social issue by people of the concerned area and safety measures were taken.

3.4.2 Publication of Research Journal

The college has been bringing out a multidisciplinary research journal, *RAYS,* as an annual containing research output of faculty and researchers of this college and those from other institutions. The Journal's Editorial Board comprises faculty belonging to this college and from other establishments. The Journal is published from 2012 as a Peer Reviewed national journal devoted to multidisciplinary research with an International Standards Serial Number ISSN No.2319-5770 under a new name, *VISTAS- a Multi-Disciplinary Research Journal.*

Publication Policy

- Multidisciplinary- Science, Commerce and Humanities; Peer reviewed; Annual; Total number of pages-100; Submission charge- Rs.1000 for members of this institution and Rs.1500 for others; Article selection criteria: original research work in the respective areas.

3.4.3 Details of Publications by the Faculty and Students

Publications by Faculty

Faculty who are involved in higher level learning bring out their work in the form of publications in journals/ proceedings of National/International level. During this period the faculty of this institution have 160 publications in peer reviewed journals more than 97 of which have been listed in International database such as Scopus - International Social Sciences Directory, EBSCO host, Zbmath, PubMed, Science Direct, AMS, ACM digital library etc. Also faculty have published chapters in books with ISBN number and edited journals/books with ISSN number. Details are given below.

Publications by Faculty

Year	No. of paper published in peer review-ed journals	Publications listed in international databases	Monographs	h-index	Impact Factor	SJR
2012	48	38	23	384	15.94	8.243
2011	32	20	11	344	15.13	7.405
2010	30	19	7	728	19.40	4.691
2009	24	9	7	97	0.70	1.258
2008	18	5	1	193	7.92	2.272
2007	8	6	1	162	2.60	3.16
Total	160	97	50	1908	61.69	27.029

Publication per faculty: **4**

- **Books /Journals with ISBN/ISSN:**

1. Empowerment of women- The impact of employment. ISBN No. 978-93-80031-61-3 published by ABHIJEET publication, Delhi and authored by Dr. Sr. Rosa K D, Department of Commerce, 2010

2. Armored Networks: Critical Cybernetic Defense Technologies, ISBN: 978-93-82062-25-7 published by Excel India Publishers and edited by Dr Sr P. L. Lilly and Dr N. R. Mangalambal of Department of Mathematics in 2012

3. Physical activity, Health and Wellness, ISBN 978-81-925229-0-6 published by Akshram publications and authored by Mr. Stalin Raphael of Department of Physical Education in 2012

4. Nanotechnolgy, ISBN-10-3844314784 published by LAP-Lambert Academic Publishing, GmbH &Co. KG, Germany authored by Dr. Sr. Viji M. O. of Department of Biotechnology and C. K. K. Nair in 2011

5. *In vivo* and *in vitro* studies on Withania somnifera, ISBN-978-3-8454-37408 published by LAP Lambert Academic Publishing, GmbH & Co. KG, Germany authored by Dr. Sr.Viji M. O. of Department of Biotechnology and R. Parvatham in 2011

6. *'VISTAS', A Multidisciplinary Research Journal* ,ISSN:2319-5770 edited by Dr Pearly Sebastian Chittilappilly of Department of Chemistry and Dr N. R. Mangalambal of Department of Mathematics in 2012

7. Gender & Spirituality a Feminine Perspective, published by Holy Family Publications, Holy Family Generalate, Mannuthy and authored by Dr.Sr Annie P. V. , Department of History in 2008

8. Bulletin of Kerala Mathematical Association, ISSN: 0973-2721, a Biannual published by Kerala Mathematical Association (Dr. N.R. Mangalambal, Dept. of Mathematics -Academic Editor)

The International/National Seminar proceedings of the various departments are invariably brought out in book form. We also have publications that include works of PG students in journals/proceedings.

3.4.4 **Awards/Recognitions Related to Research**

- ❖ Dr. Aneesh E M department of Zoology received *Young Scientist Award in 2010* from ISMOCD (ICMR Government of India).
- ❖ Dr. Viji Mary Varghese of Department of Biotechnology was awarded Commonwealth Split site Doctoral fellowship from 2007 to 2008 at University of Nottingham, UK.
- ❖ Dr. Sr. Viji M O of Department of Biotechnology is selected as a peer reviewer of International Journal of Science Domain.
- ❖ Dr. Sr. T K Anee, the Principal of the college, Reviewer of International Journal of Nanomaterials and Technology (IJONMAT).
- ❖ Dr. Rosebella K Puthur of Department of Chemistry and Dr. N R Mangalambal of Department of Mathematics have received *letters of appreciation and Honorarium from Indian Academy of Sciences Bangalore* for organising Science Academies' lecture/workshop in our institution.
- ❖ Dr. N R Mangalambal - Reviewer of *Zentralblatt MATH, Germany*, An International Database edited by European Mathematical Society, FIZ Karlsruhe and Heidelberger Akademie der Wissenschaften.
- ❖ Dr.Sr. Lilly P L of Department of Mathematics is Reviewer of International Data bases, American Mathematical Society and Telcon.
- ❖ Naijil George of Department of Biotechnology has received 'The Best Panellist Award' in 2011 from IPGME&R, Calcutta.
- ❖ Naijil George received 'The Best Workshop Participant Award' in 2011 from IPGME & R, Calcutta.
- ❖ Naijil George is elected as Joint secretary for Society for Biotechnologist (India) in 2012.
- ❖ Dr. Beena Anto of Department of Botany is Reviewer of website https://www.academicjournal.com
- ❖ Dr. Rosilin Alex is reviewer of International journal "Biodegradation".
- ❖ 13 members of our faculty received '*Researcher in Science', 'Researcher in Humanities'* and '*Teacher of the year'* awards from Pavanatma Educational Society during the period 2007-2012.

3.5 Consultancy

3.5.1 Institute-Industry Interface

- The various departments of our institution strategically plan their teaching with a view to include institute- industry interaction. A few examples are given below.

Institute-Industry Interface

Department	Industry
Commerce	KSE Ltd., Irinjalakuda, Bank of Baroda Ernakulam, Geogit BNP Paribas, Hindustan Umbrella Factory Pvt Ltd., Kerala, Lakshmi Mills, Pullazhi Thrissur, KPL Oil Mills Pvt Ltd., NIIT etc.,
Malayalam	Kerala Folklore Academy, Chetana Studios, Current Books, Grafix Creations, Sign Film Society and Teeyes Offset

Social Work	CARITAS India New Delhi, Tejas Asia New Delhi, NIMHANS Bangalore, Amrita Institute of Medical Sciences Edappilly, Keystone Foundation Kottagiri Tamil Nadu, Malankara Social Service Society (MSSS) and Kerala Feeds, Kallettumkara.

- Visits to industrial centres of importance comprise a part of the study tour undertaken by the faculty and students of almost all the departments, besides direct industrial visits every year.
- MOU regarding periodic visit of experts to our college is arranged with the help of IQAC.
- Invited talks by business experts and entrepreneurs, by industry related authorities on interdisciplinary subject areas such as Cryptography and Cyber Security are arranged with a view to taking up PG student projects which relate theoretical aspects of their study with their precise applications in industry.
- Entrepreneurial development club (ED club) sponsored by Directorate of Industries Trivandrum conducts various programmes for Entrepreneur skill development among youth, especially for women.
- National/International workshops/seminars form a common platform for interaction between faculty, students and research scholars with experts/industry persons resulting in research/society/community oriented projects.

3.5.2 Policy to Promote Consultancy

The consultancy service by the departments are encouraged, promoted and guided by IQAC and GRACE.

1. Each department is given freedom to execute consultancy services so as to impart the knowledge acquired and created through research to the community/society.
2. Laboratory facilities are utilized for consultancy services such as water and soil quality analysis, blood group identification etc.
3. Promotion of consultancy services for society/industry using infrastructural facilities and human resources is encouraged.
4. The available expertise and facilities are publicized through printed brochures, college website, notice board and through the stake holders.

3.5.3 Encouragement Given for Consultancy Service Utilization

All facilities in the college are accessible to the faculty for consultancy service. The major consultancy services provided by various teams in the institution are appreciated and applauded in the monthly faculty/staff meetings of the College. The management of the institution and PTWA express appreciation on behalf of consultancy services during the annual PTWA meeting, with the effect that the output of their services is considered for the awards like Best researchers' award by the Pavanatma Educational Society. The income generated from consultancy services itself is an encouragement for taking up further services.

Incentives are given to faculty for receiving State, National and International recognitions for research contributions – Award winners are congratulated during

the annual day celebration of the institution and cash awards given.

3.5.4 Broad Areas and Major Consultancy Services Provided

Details of Consultancy

Department	Areas of Consultancy
Biotechnology	Water pollution ,Various Lab techniques
Botany	Identification of medicinal herbs
Chemistry	Soil Fertility Measurements
Commerce	Taxation and Preparation of Income Tax Returns
English	Language assistance for writing theses and dissertations
Economics	Entrepreneurship
Malayalam	Editorial support, coordination of media programmes
Mathematics	Guidance for funded research projects and organizing of National/International research seminar/workshop, Orientation on topics of higher Mathematics
Social Work	Research guidance on UG/PG social work in Annamalai University. Monitoring of crèches of Anaganwadies
Physical Education	Sports Psychology, Health and Fitness

- Dr. Sr. Rosa K D, Associate Professor & Research Guide, Department of Commerce has been offering consultancy services for the foundation, administration and academic guidance of St. Paul Institute of Professional Studies, Indore, from 2010-onwards.
- Mr. Stalin Raphael, Department of Physical Education is consultant in Sports Psychology for 'Viva Kerala', a professional football team in Indian Football League (Indian League).
- In addition, individual consultancy services are also rendered by the faculty in various departments, such as academic expertise, consultation on health and fitness etc. The departments could generate an amount of Rs. **369291/-** from their consultancy services during this accreditation period.

3.5.5 Policy of the Institution on Income Generated through Consultancy

The policy regarding the sharing of income generated through consultancy is 3:1 (staff involved: institution). The income generated in the past is utilized for the purchase of equipment and for conducting the next level programmes for the benefit of student community/society and also for effective functioning and expansion of consultancy services.

3.6 Institutional Social Responsibility (ISR) and Extension Activities

This institution believes that it has to fulfil a lot of social responsibilities to enrich the community in which it exists and draws life and energy from. Hence, from the very inception of the college, authorities were always on the search for ways and means to make contributions to the society. It is worth mentioning here that the institution received the following awards in appreciation of the service rendered to community.

1 'Best Service'Award received from Indian Association of Blind

2 Special appreciation from the District Collector for the best participation in Palliative care programme
3 Award for best NSS unit for maximum blood donation
4 Award for best Women Development Cell in the University for working for the cause of women
5 Award to the Principal for social service leadership through Janamaithri Policing

3.6.1 Promotion of Institution-Neighbourhood-Community Network

Institution-Neighbourhood- Community Network was commenced years back in the name, 'SCOPE'. The Principals, staff and students have enthusiastically participated in all the developmental activities. Lot of efforts have been taken to change the face of the neighbouring Shanmugam Colony. Conversion of huts to houses, literacy mission, provision of two approach roads for public use, provision of land, building and books for a library for the public etc., was some of the contributions made in the past years. Year after year, all associations like NSS, NCC, AICUF etc., were eager to contribute something towards it. A social work centre has been set up for empowering girls/house wives in the locality.

Now these activities are continued through 'Darsana' Counselling Centre also. Its Executive Body consists of the Manager, Principal, Director of Darsana, Municipal Chairperson, Ward Member, C.I. of Police, Faculty representatives etc.

CASP is another project which aims at holistic development of poor school going children in the locality. Our Social Work Department also serves the society in manifold ways through various extension activities.

In its outreach functions this institution is totally guided by several obligations:

1. Making the higher education curriculum (knowledge resource) reflect the socio-cultural realities.

2. Preventing the alienation of the educated from the society and developing responsibility to the society among the educated

3. Deepening the students' grasp of the world through wider exposure to real life problems

4. Promoting good citizenship through involvement in nation-building processes

5. Offering Seminar sessions to Plus Two teachers and assistance in Projects to plus two students by our faculty

Our college has a unit of 75 school going children under CASP (Community Aided and Sponsorship Programme) in which their education expenses such as study materials, tuition fees, uniform, medical assistance, personality development programmes etc., are taken up.

Twice a week free tuitions are given by a team of our students to the school children of Govt. Girls High School, Little Flower Convent Girls H.S. and St.Mary's H.S. at Irinjalakuda. Tuition was also provided for the mentally challenged children of 'Pratheeksha Bhavan', Irinjalakuda.

Visiting the homes for the aged, the destitute and differently abled, and slums, participating in adult education, literacy mission etc. are social welfare activities designed for the students.

Weekly visits are made by a team of two faculty and 10 students to 'Santhi Sadan,

Irinjalakuda', a home for the destitute, to offer physical philanthropic assistance.

Other services include:

- Free blood check-up and other pathological investigations offered to the local people
- Maintaining a Library for poor people in the nearby colony (DOLCE Library)
- Maintaining a T V parlour in the Municipal Park for the old people in the locality
- Housing project for 50 homeless families
- On-campus counselling centre Darsana with two full time professional counsellors offering counselling services to people and is also a centre for dealing with cases falling under Domestic Violence Act.
- Students' rallies and awareness programmes on women related issues like Women Harassment, Save Girl Child, AIDS etc.
- St.Josephs' Sports Academy started in the academic year 2008-09 to promote sports for children in the locality with a provision for sports kit worth Rs. 2000'
- Mental health training provided for National/International athletes in South India

Principal Dr. Sr. Anee T K, is the General Convener of "Janamaithri"- community policing introduced by Kerala State Government at Irinjalakuda, which secured ISO 9001 recognition in 2001. The College collaborates with Janamaithri on all endeavours by participation and provision of campus facilities. Our Vice Principal Dr. Sr. Rosa K.D. and three faculty members work in two important bodies of Irinjalakuda diocese- Justice Forum and 'Pratyasa', which deal with a lot of social problems.

3.6.2 Institutional Mechanism to Promote Citizenship Roles of Students

This institution has a number of bodies functioning on the campus round the year for this purpose. They are NSS, NCC, AICUF, CASP and WDC.

Beyond the routine programmes the NCC & NSS have certain special achievements/ activities listed below.

Table of achievements/commendable activities for NCC

Event	Year	No. of students participated
Short Service Selection	2012	1
Trekking	2011	4
Youth Exchange Programme	2010	1
Placement	2010	2
All India Cultural Programme	2009	1
Thal Sainik Camp	2009	1
Republic Day Camp at Delhi	2008	1
Basic Leadership Camp	2008	3
National Integration Camp	2007	7

Period	Special Activities of NSS
2008-12	• Seven blood donation camps with 500 donors • Three houses constructed for the poor and keys handed over • Roads constructed in the adopted village(2011-12) • Soft skill classes in the adopted village every year • Participation in walkathon every year • Free eye camp in the adopted village and distribution of spectacles worth Rs. 12000/-(2010-11) • Tailoring classes to all NSS members every year

3.6.3. Soliciting Stakeholder Perception on the Performances and Quality of the Institution

Attempts have been made to measure the stake-holder's perception of service quality provided, by assessing the gap between their expectations and their perception of what they have really received from the institution.

- Appropriate questionnaires are developed for feedback from students, alumnae, parents and employers and feedbacks received on the scales of service quality rendered by us and the level of satisfaction developed in the respective stakeholders.

- This feedback information is evaluated at the monthly evaluation sessions by the Principal and remedial actions suggested to mitigate drawbacks identified.

- The remedial action involves identifying areas and departments with low performance, setting targets under the guidance of IQAC and the direction of the Principal.

- A comparable outcome over the years is reflected in the improved rate of students going for higher education and higher level employment.

3.6.4 Planning and Organization of Extension and Outreach Programmes for Students and the Impact

Extension and outreach activities are organised at the college and department levels. At the college level these activities are coordinated by the faculty convenors and detailed annual plans are drawn up in consultation with the student convenors. At the departmental level, the responsibility for planning and organising the extension and outreach programmes is vested in the Head of the Department who directs the faculty in charge and the student leaders to chalk out the Year Plan. The needs of the local community/institutions/bodies are taken into consideration while deciding on the venues, where the extension and outreach work is to be undertaken. The activities are planned in such a way that they can be completed in a time-bound manner.

Extension and Outreach Programmes are generally of three kinds:

a) Educational extension programmes- the numerous extracurricular programmes such as certificate courses, exhibitions and intercollegiate quiz competitions, organizing of National/International seminars, interactions with academic/industrial experts, participation in

seminars/workshops/management meets/paper presentation/organization study in other institutions/industry and visits to rural and tribal areas all over India and free tuition for school and college students

b) General extension programmes that are administered by NSS, NCC, CSS, AICUF, CASP, Women's Development Cell, Darsana Counselling Centre etc.

c) Special Extension Programmes focus on the underprivileged and vulnerable sections of the society. Amount spent for extension and outreach by the college and various associations is given in the table below.

Extension and Outreach Programmes

Associations	2007-08	2008-09	2009-10	2010-11	2011-12	TOTAL
AICUF	5000	9000	3000	3000	5000	25000
CASP	19500	24500	24500	28800	7800	105100
College	74122	78137	31350	69600	127928	381137
Darsana	0	0	10000	0	10000	20000
Departments	75850	96526	57630	70905	68380	369291
NSS	0	0	0	234000	33000	267000
Staff Association	0	0	0	100000	200000	300000
Total	174472	208163	126480	506305	106708	1467528
No. of Programmes	51	61	65	32	51	260

Impact on the Students:

Participation in the various extension activities of the college helps them imbibe and inculcate the following qualities.

- Improve their leadership potential
- Revealed to them the stark realities of life faced by the less privileged
- Provide training in skills that would come handy in their life
- Train them to participate in the nation building process
- Remind them of their responsibility to the downtrodden and the less fortunate

3.6.5 Promotion of Participation of Students/Faculty in Extension Activities

After the admission to the Degree Course, students are given a choice to join various organizations such as NSS, NCC etc. functioning in the college. The institution highly promotes participation of students/faculty in extension activities ranging from local to global level. The levels of participation in such activities are regarded as one of the criteria for being considered for the 'Student of the Year', the 'Star of Excellence', the 'Teacher of the Year' and the 'Researcher of the Year' awards. The **"Best Camper and the Best Volunteer"** awards are instituted by NSS and NCC. The overall sentiment of service and concern fostered in them by the spiritually charged and charitable ambience existing in the campus is a

stimulating factor for the promotion of increased student participation in these programmes too.

3.6.6 Social Surveys, Research and Extension Work Relating to Social Justice and Empowering Students from Under-privileged and Vulnerable Sections of Society

To ensure social justice and to empower students from under-privileged and vulnerable sections of society, all the departments in the institution organized programmes of various levels, some of which are given below:

Social Surveys, Research and Extension Work Relating to Social Justice

Sl. No.	Events	Organizing Agency/ Department	Target Group
1.	Adult Literacy and Numeracy classes in local SC Colony	Mathematics and Hindi	35 illiterate women of the local Colony
2.	Blood Group, Blood Pressure, Blood Sugar and Urine analysis	Zoology	Local people, college students, college faculty and staff
3.	Computer, Personality Development and Spoken English Classes	Equal Opportunity Centre (UGC Funding)	SC/ST/OBC/Minority Students
4.	Free Academic Assistance and Physical Philanthropic Assistance	English	Students of local schools and inmates of 'Santhi Sadan'
5.	Rice distribution	Economics	For 30 BPL families in the Shanmugam colony, Canal base, IJK
6.	Social Survey on the post metric educational status of the Tribal Population in Mananthodi	Social Work	Status Report for local NGO
7.	Special Tuition given to disadvantaged group outside the college	Physics	Government G.H.S., Irinjalakuda
8.	Study on the Unwed Mothers of the Tribal Population of Mananthodi	Social Work	Status Report for local NGO
9.	Tailoring classes	NSS	Underprevileged students
10.	Visit to Govt. Hospital (Every Second Saturday)	Hindi	Taluk Hospital, Irinjalakuda

3.6.7 Outcome of the Extension Activities

The extension activities in which the students get involved invariably make an impact on them in a number of ways. In conformity with the declared objective of bringing the students face to face with social concerns particularly those dealing with education, employment and development, the extension work carried out by this Higher Education Institution has redefined their role in the society. The exposure they get from the extension activities and involvement in the life situation of the underprivileged in the society complement the academic learning experience of the students.

The extension activities offered by this institution have indeed been a valuable avenue for harnessing youth power for national development. A commendable outcome of the impact can be seen by the empowerment of students through team work and enhanced self esteem. The teaching profession is chosen by a good majority of them since they feel that teachers play an important role in the national development. Some have opted for a life of service and philanthropic activities in various organisations and NGOs.

3.6.8 Initiatives to Ensure Community Development

Community Participation in Extension Work:

This institution maintains close links with the local self-government and non-government organizations in their endeavours of social development and environment protection. Youth of the local Shanmugam Colony have been a part of extension programmes of NSS. Local women are the participants and beneficiaries of programmes organised by Darsana. Several social groups and agencies also get in touch with us seeking support and participation in their programmes. NSS and NCC units work under government instructions to collaborate with the local bodies in its various projects related to health, hygiene, sanitation, literacy, renewable energy, pollution control, social evils, blood and eye donation, environment conservation etc., and contribute much to community development and social progress. The following table shows some of the community development initiatives.

Details of Community Development Initiatives

Department	Events	Target Group
Biotechnology	Sanitation Campaign by Water Quality Analysis	Irinjalakuda Municipality
Botany	Mass Awareness Campaign on Chikuen Guinea	Local Population
Chemistry	Soil Analysis	Farmers of nearby places
Commerce	Com Expo- Free Banking Exhibition	2,017 students from the local colleges and schools
Economics	Survey on Dual Role of Women	Women of Irinjalakuda, Kodungallur municipality, Koratti Panchayath
English	Academic coaching	Disadvantaged Students of

		Govt. Girls H.S. and St. Mary's H. S, Irinjalakuda
Hindi	A tree for every home – Distribution of trees	Local BPL Colony
Mathematics	Adult Literacy and Numeracy classes in local SC Colony	35 illiterate women of the local Colony
Physical Education	Shuttle and Ball Badminton Coaching	Children in the locality of age 8 to 18
Social Work	Awareness Class on Waste Management	Chalakudy Municipality
	Awareness among police constables on childline	Police Constables
NSS	AIDS Awareness Talk	KSACS, Volunteers, HIV positive patients
Value Education	Positive Thinking and Positive Attitude, Social Interactions	Whole Student Body of the College
Physics,Biotechnology, Botany, Chemistry and Mathematics	Student Project demonstration of lab technique	MSc, Higher secondary and High School students of nearby locality

3.6.9 The Constructive Relationships with Other Institutions of the Locality

The institution has forged constructive relations with many local institutions enabling the smooth conduct of outreach and extension activities. The following table gives details of the same.

Details of Relationships with Institutions of the Locality

Name of the faculty	Institution/organization
Dr. Sr. Anee T.K., Principal	Convenor, Janamaitri Community Policing,Irinjalakuda, Advisory Board member, www. Irinjalakuda.com- a web news portal, Convenor - Manava Karunya Yatra, Irinjalakuda, Advisory Board Member-Kidney Federation of India, Advisory Board member - the welfare of women Secretary, Higher Educational Councilor- Catholic Colleges, Calicut University, PRO-Diocese of Irinjalakuda, Member & Agenda Committee Member-Pastoral Council, Diocese of Irinjalakuda, Secretary - Indian Institute of Christian Studies, Vice President- Council of All Kerala College Principals, Calicut University, RATIO - Member, CHF, Member- Mercy Trust, Diocese of Irinjalakuda, Member- Plenary Council, Pavanatma Province, NSS Advisory Committee Member- University of Calicut

Dr. Sr. Rosa K D, Vice Principal	www.Irinjalakuda.com, Irinjalakuda Diocese Justice Forum, Mercy Trust
Dr. Rani Paul Ukkan	Irinjalakuda Diocese Justice Forum and 'Pratyasa'
Dr. Jessy Emmanuel	Irinjalakuda Diocese Justice Forum
Ms. Laisa Paul	Kerala Institute of Local Administration
Ms. Lisamma John	Mercy Trust, Irinjalakuda Diocese
Dr.Valsa John C	Irinjalakuda Diocese 'Pratyasa'
Departments	Pratheeksha Bhavan, Santhi Sadan, Santhwana Sadan, Providence Home
Darsana Counselling Centre	Family Court
Social Work	Municipality, Panchayat, NGOs

3.6.10 Awards Received by the Institution for Extension Activities

1. The Best Women Development Cell in the University- Award instituted by the University of Calicut for the commendable work of its Campus Women Development Centre for the welfare of women during the year 2011-12
2. Award by the Indian Medical Association (IMA), for the best NSS unit for the 'Maximum Quantum of Blood Donation' in Thrissur district in the year 2012
3. The Kerala Citizen Forum Award for 'Overall Excellence in Sports' received in 2012
4. Over all Championship for 'The Best Institution in Camps' by the Seven Kerala Battalion NCC, Thrissur
5. Award received by the Principal for commendable service as the Convenor of Janamaithri Community Policing
6. Award received by Ms. Litty Chacko faculty Malayalam Department for commendable service in Janamaithri Policing
7. Award received by Ms. Dhanya Babu, Collge Union Chairperson for commendable service in Janamaithri Policing
8. 'Kalalaya Ratna Award' instituted by Christ College for Excellence in Extension Activities to Ms. Dhanya Babu
9. Award for the 'Best Institution in Sports 2010-11'
10. MCR Ms. Roshni Award for the 'Best Student' to Ms. Dhanya Babu 2011

Contribution to Social/Community Development

As an institution for education and empowerment of women, it has contributed a lot to the community development.

- The message of gender equality has spread far and wide. The college has produced veteran leaders Prof. Savithri Lakshmanan MP, former faculty of Department of Malayalam, Prof. Meenakshi Thampan MLA, former faculty of Department of English, Ms. Bency David-Municipal Chairperson, Alumna, Ms. Sonia Giri-former Municipal Chairperson, alumna St.Joseph's Study centre, Ms. Bindu R, former Mayor, Thrissur, among others.
- It has endeavoured to improve the status of women and to bring them to the mainstream of society.

- It has contributed to the transformation of the rural areas into semi-urban township and added to the civilization and culture of the locality. It has in fact changed the face of Shanmugam Colony- the slum area.
- It has increased the knowledge and skills of the local people and led to the improvement of their standard of living.

3.7   Collaborations

3.7.1 Collaboration and Interaction with Research Laboratories, Institutes and Industry

The institution interacts with a number of research institutions and laboratories across the country mainly in its capacity as a higher education centre that gets its faculty trained in these research establishments. Our faculty undergo doctoral research in these institutions and this leads to academic co-operation between them and our institutions. The numerous seminars, workshops and other academic events the departments host, also pave way for collaborative interactions with a number of research establishments in the country. For example, in the years 2007 and 2011 the Department of Mathematics organized one National and one International seminar in collaboration with Kerala Mathematical Association, Global Registered Organization. Science Academies' lecture workshop on 'Functional Analysis and Several Complex Variables' in collaboration with Indian Academy of Sciences Bangalore was organized on 4-6 January, 2011. These events have been common platforms for interactions between experts, research scholars, students and also the local people, involved in event management.

3. 7. 2 Collaborative Activities with Institutions of National Importance

Various departments of this institution engage in yearlong academic activities in collaboration with reputed agencies.

Details of Collaborative Activities with Institutions

Department	Collaborating Institutions
Biotechnology	Centre for Neuroscience, Cochin University of Science and Technology
Chemistry	Indian Academy of Sciences, Bangalore
Commerce	ACE Tally Academy, Tax Study Centre, Cochin
Economics	GTECH Computers, KITCO, DIC, Industrial Department Irinjalakuda
English	Kerala Agricultural University, Department of Higher Education, Government of Kerala
Malayalam	Kerala Folklore Academy
Mathematics	National Board for Higher Mathematics, Kerala Mathematical Association, International Mathematical Union, Indian Academy of Sciences Bangalore, Cochin University of Science and Technology
Physical Education	Kerala State Sports Council
Physics	JCI (Junior Chamber International, Irinjalakuda)

The outcome of such collaborative activities with student involvement has resulted in academic, social and cultural exposure, National as well as International.

3.7.3 Industry-Institution-Community Interactions

In the case of human resource development, knowledge upgradation and placement drives, we have clear links with major institutions and industries like WIPRO. The Department of Mathematics has the support of NBHM library consortium agreement, which has resulted in a good collection of higher mathematics books in the Department library. The linkage with Amrita University has resulted in the Virtual Lab and E- resource sharing facility. Industries like Solvent Extractions Ltd., Dharmaposhana Co., K.P.L. Oil Mills etc., have contributed to the development of the institution, faculty and students.

3.7.4 List of Eminent Scientists/ Resource Persons who visited our Campus for National/International Conferences

Many eminent scientists and resource persons visited our campus for conducting national and international conferences. The following is the list of such scientists and experts.

Eminent Scientists/ Resource Persons for National/International Conferences

Sl. No.	Resource Persons	Theme of the event	Date
1.	Dr.Francis Gyanasekhar Associate Professor & Head, St Joseph's College,Trichi	National Seminar on 'The Impact of e-Commerce in the Rural Areas'	21-22/12/11
2.	Prof. M S Chaudhari, Dept. of Mathematics, Shivaji University, Kohlarpur	Guage Integration	12/12/11
3.	Prof. P T Ramachandran, Calicut University	Rings of Continuous functions	18/08/11
4.	Dr. ArvindKumar Nema, Assistant Professor, IIT Delhi	Advanced Technologies for Waste Treatment	24-25/02/11
5.	Prof. Bushan Patwardhan, Director, Institute of Ayurveda & Integrative Medicine	Herbs & Herbal Products	29-30/09/10
6.	Prof. K L Sebastian Professor, IISc Bangalore	Modern Trends in Chemistry	24-25/02/10
7.	Dr. Suresh Das Director, NIIST Trivandrum	Modern Trends in Chemistry	24-25/02/10
8.	Dr. Sukumaran EDII, Ahmedabad	Empowerment through Entrepreneurship	19-20/01/10
9.	Dr. Babu P George, Assistant Professor, University of Southern Mississippi, USA	International Seminar on Global Financial Crisis	31/07/09

10.	Prof. Dr. Alwin J Williams, Professor of Marketing, Mitchell College of Business, University of South Alabama, USA	International Conference New Trends in Business Education	18-19/05/09
11.	Prof. M. Rajagopalan, College of Arts and Science, Tennesse State Univesity, USA	Recent Trends in Topology and its Application	19–21/03/09
12.	Prof. T Thrivikraman, formerly Dept. of Mathematics, CUSAT	Talk on Global Analytic function and Hyperfunctions	07/03/09
13.	Dr. Clare Bradford, Deakin University, Melbourne	International Australian Children's Literature	15/09/08
14.	Dr. M P Sebastian, NIIT Calicut	Public Key Algorithm, Hash	18/04/08
15.	Dr. P V Ouseph, Prof. & Head, Department of Vasthuvidya, Sree Sankaracharya University of Sanskrit, Kalady.	Eco Folklore	26-27/07/07

3.7.5 Linkages and Collaborations

Though twinning is not approved by the affiliating University, we have established linkages with several institutions and firms to enhance and enrich the performance level in various ways.

Curriculum development/enrichment: We have linkages with Kerala Folklore Academy, Kerala Sahithya Academy, Chetana Studio, Current Books, U.C. College Aluva, International Mathematical Union Germany, National Board For Mathematics, Department of Atomic Energy Govt. of India, Kerala Mathematical Association, Indian Academy of Science Bangalore, St Joseph's College Trichi, St.Thomas College Thrissur, St. Albert's College, Ernakulam, Amala Cancer Research Centre, Amrita University, Sacred Heart College, Chalakudy, etc.

Internship/On-the-job training: Kerala State Electricity Board, KLF Industries Pvt Ltd, Irinjalakuda Town Cooperative Bank Ltd, KPL Oil Mills Pvt Ltd, KSE Ltd Irinjalakuda, KSFE Ltd Chalakudy, Kerala Agro Machinery Corporation Ltd, Athani, Murali Tiles Urakam, South Indian Bank Travancore, Chemicals Federal Bank Ltd Aluva, Forgins Ltd Athani, Geogit Hindustan Umbrella Factory Pvt. Ltd., ICICI Ltd., Irinjalakuda and Kaipamangalam Grama Panchayath offer on the job training to our students.

Summer placement is provided by Science Academies, Bangalore.

Professional development is offered by NIIT Delhi, Edyounet, ELIJAH institute of MBA, ICWAI chapter, District Industrial Centre, Entrepreneurial Development Cell of KILA, AICE Irinjlakuda- a Franchisee of Tally Solutions, Bangalore, Taxation Centre Ernakulam, Institute of Chartered Accountants of India, District Industrial Centre, Thrissur, Industry department of municipality, IMU(International Mathematical Union) Germany, NBHM(National Board For Mathematics, Department of Atomic Energy Govt. of India), KMA (Kerala Mathematical Association) and DST.

Research facilities are provided by Bharathiar University, Indian Trade Fare, IAS (Indian Academy of Sciences, Bangalore), Kerala Folklore Academy, Kerala Sahithya Academy, and Appanthampuransmaraka Library, KILA, Kerala Agricultural University, Dr. John Mathai Centre, University of Calicut etc.

Consultancy is provided to KIRTADS (Kerala Institute for Research Training and Development Studies of Scheduled Caste and Tribes) Kozhikode, Family Apostolate and Training Research Institute (FATRI), Velur.

Extension: This institution has a well-built linkage with Local Self Government Institutions like Municipalities, Block Panchayat and 16 Village Panchayats. Indian Council of Social Work, ASSK- Association of Schools of Social Work, All Kerala Social Work Students Association (AKSSA), SOS Children's Village Mulayam, Divyahridayaasramam, Chennaypara, Holy Angels Foundling Home, Pullazhy, Chalakudy Puzha Samrakshana Samithi, Kudumbasree District Mission Kerala, State AIDS Control Society (KSACS) Thrissur, Taluk Hospital Irinjalakuda, District Mission Hospital Thrissur, State Institute of Rural Development (SIRD) Kottarakkara, Children's Observation Home Ramavarmapuram, Thrissur, Govt. Old Age Home, Ramavarmapuram and Mahila Kisan Sakthikaran Pariyojana Kuzhoor Panchayath, NBPGR New Delhi.

Student Placement: Infosys, WIPRO, Infopark, Edyounet, Tata Consultancy Services, State Indian Bank and NIIT offer placements.

Publication: Excel India Publishers, Abhijeet Publishers, Delhi collaborate with us.

Introduction of New Course: Certificate Course in Fashion Technology MHRD, Kerala Govt. is introduced**.**

Outcome: The global level of exposure in various dimensions such as knowledge enrichment, research, higher placements, service orientation and holistic development all have resulted in grooming academically and globally competent women rooted in values and endowed with compassion for the weak and marginalized through creative action and self-discipline.

3.7.6 Systemic Efforts of the Institution for the Linkages /Collaborations

The strategic management of the institute-industry linkage is a matter of faculty interest and dynamism. Our career guidance cell is continuously in contact with various industries and agencies and placement drives and interviews have taken place and some of our students were selected. The most common kind of these linkages are the student internships wherever they are applicable, and the campus placement relations that we have developed with certain industries. However, most of our departments have planned to evolve a sensitization strategy by which they intend to inform the industry of the worthwhile talent on the campus and to organize joint-fairs of the industry and the institute for this purpose.

Relevant information regarding Research, Consultancy and Extension which the college would like to include:

1. Some faculty are in the Board of Examiners of PG studies in Kannur University, Kerala University, MG University, Kerala Agricultural University, Pondicherry University, Bharatiar University, Cochin University of Science

and Technology. Some are external examiners of MPhil and PhD dissertations of Bharatiar University and Cochin University of Science and Technology.

2. Some faculty members have been resource persons in sponsored National Seminars and Regional Seminars and are editors of proceedings of sponsored seminars organized in the college.

3. The atmosphere of research, consultancy and extension has a positive outcome on the student community of our institution. We have scientists, PhD and MPhil holders and Assistant Professors in HEIs (80) among our Alumnae.

Criterion IV
Infrastructure and Learning Resources

Augmentation of infrastructure facilities at par with global level changes in teaching learning methodology is of great priority to this institution and in tune with the academic growth expected of a standard Higher Educational Institution. From the sketchy skeletal structure of 1964, the college has grown to a huge three storey infrastructural marvel of 3 blocks and this growth was necessitated by the increase in courses and classes. Quality culture is deeply embedded in the soul of this institution, which provides quality education to students, through effective teaching learning methods.

4.1   Physical Facilities

The infrastructure is vital to the development goal of the institution and a peaceful and comfortable mind can absorb every bit of new knowledge exposed to it.

4.1.1 Policy of the Institution for Creation and Enhancement of Infrastructure that Facilitate Effective Teaching and Learning

The institutional policy regarding creation and enhancement of infrastructure is to provide state of the art facilities necessary to make teaching and learning process effective. Therefore, attention is paid to design and deploy concrete plans to develop cost effective and sustainable infrastructure service available to all kinds of users.

Spacious and well ventilated class rooms with hundred percent wooden furnishing, sprawling verandahs, and Smart A/C seminar halls with facilities for ICT learning, the mighty three storey indoor stadium, three hostels, canteen, Non-residential Student's Centre, auditorium with 1500 seating capacity, High Tension Electricity Connection, High capacity Transformer (250 KVA), well furnished fitness and yoga centers, CCTV to cite a few, fulfill our growth plans.

Updating the infrastructure is a routine matter of serious concern of the institution and for this purpose, workshops and smithies remain functional round the year.

The Planning Process: At the close of every academic year, a Management Council Meeting is convened in which the infrastructure requirement for the next academic year is presented by the Principal. After due discussions, the budget requirements are analyzed and sanctioned, if found reasonable. If a grant is available under any scheme, a responsible member is directed to explore the possibilities for availing the grant. The new hostel building that has come up recently was built with a grant from the UGC. In other cases, the money needed is raised through donations and fund-raising exercises.

4.1.2 Facilities for Curricular, Co-curricular and Extra-curricular Activities

The institution has the following facilities for curricular, co-curricular and extra-curricular activities:

Curricular and Co-curricular Facilities

Sl. No.	Description of the Facility	Quantity
1.	Classrooms	81
2.	Faculty Chambers	24
3.	Laboratories	16

4.	Language Lab	01
5.	Computer Labs	04
6.	Smart A/C Seminar Halls	05
7.	ICT Enabled Seminar Halls	11
8.	Film Space AV Hall	01
9.	Tutorial Spaces	10
10.	Research Spaces (Special rooms and Cubicles)	10
11.	Intercom linked and networked departments	18
12.	Auditorium	01
13.	Indoor Stadium	01
14.	Open Air Amphi Theatre	01
15.	Outdoor Stadium	01
16.	Specialized Teaching-Learning Equipment	
	a) Computer systems with all accessories	300
	b) Laptops	21
	c) LCD Projectors	18
	d) Other Projection Devices	06
17.	Debate Club Space	01
18.	Editing Suite	01
19.	A/C Guest suites	01
20.	Aquarium	01
21.	Botanical Garden	01
22.	Medicinal Garden	01
23.	Bird Rearing House	01
24.	Central Computing Centre	01
25.	Central Library	01
26.	Research Library	04

Apart from the above mentioned, we have Herbarium and educational museums of Zoology, Botany and History. The laboratories include different UG and PG labs, Plant tissue culture lab, Microbiology lab, Cold Room, Instrumentation rooms, Physical Chemistry lab, Research lab, Gemology lab, BG room and Dark Room.

Equipment available in labs include Laminar Air flow (horizontal and vertical), Hot Air oven, BOD incubator, Cooling centrifuge, Rotary microtome, Digital photoelectric calorimeter, PCR apparatus, Autoclave, Electronic balances, Kymograph, Newton's rings apparatus, Electrical microscopes, Cathode Ray Oscilloscope, UV spectrophotometer, Generator, Inverter, Refrigerators, Over Head Projectors , FTIR, Gas Cromotograph etc.

CCTV: 15 CCTV cameras are installed in the library and other strategic points to promote good learning habits in students, through continuous monitoring.

Research Facilities:

- Four Research Centres- Mathematics, Chemistry, Commerce, English Literature
- Well equipped laboratories in various disciplines

- Specific software tools for research like SPSS and MATLAB
- Computers with internet facility
- Library with 60,000 books, 305 journals, internet facility with access to N-list
- Seminar Complex with Smart A/C Seminar Halls

Reference Range: The College offers to researchers Encyclopedias on CD-ROMs that provide information, digital images, video, audio, and links to websites where they can access tools such as live web cameras. Dictionaries and thesauruses are built into our word processors. The researchers in the college also enjoy INFLIBNET N-List Connectivity which offers 75,000 online full-text books and 3000 journals.

Internet conferencing, e-mail, electronic discussion groups etc., allow the researchers in our institution to communicate with their peers from many parts of the world. This technology also offers them facility to contact experts such as scientists, book authors, and eminent scholars.

Facilities for Extra-Curricular Activities:

- **Sports & Games:** This institution has a history of outstanding achievements in sports and games. For instance, the college Volley Ball team has been the University Winners continuously for the past 30 years. Ball Badminton team had also won continuously for 25 years and we have produced many National/International players. Authorities have always taken interest in arranging all facilities for **sports, indoor and outdoor games.**

Our Multi-purpose Indoor Stadium (Area 3000 sq ft), with Teakwood flooring with a capacity of 3000, is one of the best in the state and a matter of pride to all associated with the institute. It consists of Volleyball Court, Basketball Court and 4 Shuttle Badminton Courts. Apart from this, we have a Sports Complex with the following amenities:

Amenities of Sports Complex

Facilities	Number	Area
200m Track	1	90mX60m
Ball Badminton Court	1	26mX12m
Basketball Cement Court	1	30mX18m
Coaches Room	1	120 sq ft
Dressing Room	1	120 sq ft
Fitness Centre	1	400 sq ft
Football Field	1	90mX65m
Kho - Kho Field	1	24mX18m
Tennis Court	1	24mX14m
Volleyball Outdoor Court	2	22mX12m
Wellness Centre	1	120 sq ft
Yoga Centre	1	400 sq ft

We also have facilities for the following outdoor and indoor games and sports events with provision for full sports kit and necessary practice facility:

1) Volleyball 2) Football 3) Shuttle badminton 4) Ball Badminton 5) Judo 6) Yoga 7) Table Tennis 8) Basketball 9) Archery 10) Cricket 11) Tennis 12) Softball 13) Hockey 14) Handball 15) Chess and 16) Caroms. Facilities exist also for training in all kinds of Athletic items.

Sports Hostel

We have separate sports hostel facility for Higher Secondary sports students and our volleyball players. Free food and accommodation facilities are made available for about **40** players.

- **Gymnasium/Fitness Centre:**

The college also has a fully equipped Gymnasium/Fitness Centre with the following equipment: Bicycle-2, Different Weights-20, Tread mill Manual-3, Weighing Machine-2 and Weight Lifting Bar-3.

Apart from these, we also have Tread mill Motorized, Wrist Curl, Twister, Stepper, Orbit Truck, Cross Over Machine, Peck Duck Machine, High Lat Pully/Rowing Pully, Leg Curl, Leg Extension Machine, Inclined Bench Press, Standing Abdomen, Parallel Bar for Gymnastics etc.

- **Judo and Karate:** As an effective weapon for self defense and in congruence with the vision of empowering women, we have well trained instructors training students Judo and Karate. We have 32 judo mats for the use of students.

- **Yoga, Health and Hygiene (Wellness Centre):** The college maintains a wellness centre under the care of the Physical Education Department. Theory and practical classes in Yoga, Health and Hygiene are conducted regularly for the students. UGC aided Add-on course on Yoga is attended by 40 students. Service of three Yoga instructors, spacious hall and 40 yoga mats are made available for Yoga practical sessions.

  'Health Data Card' is issued to students who undergo five **Health Tests** namely, 1) Body Mass Index, 2) Sit and Reach, 3) Standing Broad, 4) Sit Ups and 5) Shuttle Run and B P test. On the basis of the results, awareness programmes and health counseling are conducted.

  Health Centre which operates in the campus has the service of two Doctors- a Physician and a Gynaecologist.

  Art and Culture: Expert service and facility exist in our institution for the practice and performance of the following sphere of activities in art and culture.

    - **Communicative Art:** Speech, Debate, Filming, Creative writing, Blogging
    - **Theatre:** Street play, Folk play, Miming, Histrionics, Mimicry
    - **Music:** Solo, Choir, Instrumental Band, Orchestra
    - **Dance:** All forms of classical dances, folk dances and ballet, (western forms also included)

A Centre for Performing Arts, training talented students in all the above art forms is in place in the institution attracting a large number of students. We have the necessary musical instruments for the Arts Centre and for the Band Troop. The Band troop has regular practice sessions and they make our special

programmes like College Day, Convocation Day, College Union Inauguration Day, Sports Day etc., grand and colorful.

An acoustically perfect **1500** capacity auditorium with superbly designed two-tier wooden stage, a multipurpose indoor stadium with teak-wood floor and an open air **5000** capacity amphitheatre provide the platform for the practice and performance of the various art and cultural events hosted by the college.

Other Extra Curricular Activities:

- **NSS:** Since 1974, NSS has been functioning in this college in a very successful manner. We have two units of 50 students each and two trained Programme Officers. Special Camp facility is there for which we receive a financial support of Rs. 45,000 from the University every year. For regular work, we avail a fund of Rs. 51,600 also from the University. We have an NSS office room, store room and all necessary equipment needed for camps.
- **NCC:** The College has a very effective unit of NCC under the charge of Lt. Litty Chacko, a faculty member. Regular practice sessions, camps and other training programmes are conducted to make the cadets truly empowered. Our student Dhanya Babu got selected for YEP programme at Singapore and also for Republic Day Parade at Delhi.
- **CSS:** Compulsory Social Service is a special facility made compulsory for all the students of Calicut University in order to get them trained in social service activities. All UG. students get an opportunity of 90 hours of dedicated service either in the campus or outside.
- **AICUF:** AICUF helps to maintain a spiritual atmosphere in the campus. Membership is open to all students. They get a lot of opportunities for organizing various programmes in the campus, as well as for interacting with students of other colleges on a national basis.
- **WDC:** We have a very active Women Development Cell, which has won the award for the Best unit in the University for the year 2012.
- **HFC:** (Higher Focus Course) Training sessions on Research in various disciplines, Personality Development, Public Speaking, Debate and GD and Communication Skill Development are provided to students with a view to empowering them. At the end of a variety of programmes spread over a period of three years, students are given Certificates.

4.1.3 Institutional Planning for Ensuring that Available Infrastructure is in Line with Academic Growth and is Optimally Utilised:

This institution always plans ahead to ensure that its infrastructural development keeps pace with its academic growth and that the available infrastructure is optimally used. The IQAC is always vigilant about the growth and technological development that occurs in the global educational scenario and places before the Principal's Council suggestions regarding the required augmentation in infrastructure needed to support the developmental changes. Some specific examples are Digital class rooms for ICT enabled teaching, Smart A/C Seminar Halls for the conduct of seminars and workshops and HT installation to meet the increased need for energy resources. At the close of every academic year, the

governing body meeting is convened in which the Principal presents the proposal for the new courses applied for, classrooms and other facilities needed for each course and the proposals for augmentation of infrastructure. After getting the approval of the Governing Council, new additions are made and existing ones augmented whenever the need arises. The latest to be built is the three-storey 1353 sq.mtr west block at a cost of over Rs. 1.5 crores. The building houses state of the art seminar halls, class-rooms, departments, two labs and the ground that it overlooks has been converted into an amphitheatre which can seat around five thousand. The master plan and the estimate attached furnish more details.

In order to ensure optimum utilization of the infrastructure, within the campus, we have kept registers for recording the use of Seminar Halls, LCD projectors etc., in the office, Library and departments. Teachers are encouraged to make use of the facilities, especially the ICT. Besides this, we share our facilities with the NGOs/GOs/other similar agencies for purposes of educational or sports activities or programmes for the promotion of employable skills among the students. We partake in nation building by extending our infrastructure facilities for election purposes (polling, keeping the ballet boxes and counting) and for various programmes of the Municipality and the Government. The facilities of the institution are allowed to be used for such purposes only after the college hours or during off-sessions so that normal activities of the institution are not hampered.

Other Facilities augmented during the past four years include:

In the post Accreditation period equipment and facilities were augmented in the institution. Given below is the table showing the list of equipment costing Rs. 50000 and above.

List of Equipment

Name of the Equipment	Amount in Rs.	Name of the Equipment	Amount in Rs.
CCTV	225000	Computers -150	26452151
LCD display	85000	LCD Projectors -18	756000
HT installation work	1289920	Laptop-6	204000
High capacity Transformer (250 KVA)	736943	UPS With 10 Batteries - 5	445000
Solar lamps-6	180000	Gas Chromatograph & FTIR	1901900
5KVA 48 V DC online UPS (with inbuilt Exide SMF Batteries)	69703	5 KVA 120V DC True online Digital UPS 1 GBT based PWM Technology	50000
Generator	65000	12V, 40 AH 6EL Exide Tubular Battery	65000
Key Board	65000	CP X2430/DX2330/Gestetner 6123 N9200670192	128086
Refrigerators-4	115600	Chalk Board Green size 10 ft x 4 ft-8	90955
Flash Evaporator	51900	Chalk Board Green size 8 ft x 4 ft-10	81000
Cannon Laser Printer-7	91000	Vacuum evaporator	51900

Color Laser Printer-4	168000	Electronic Balance- Model AX200	54400
Laser Printer-10	55000	Digital Smart Board-2	120000
Electronic Balances	54400	Deep freezer	55000
Autoclave-2	65110	Cathode Ray Oscilloscope-2	50000
UV-Visible Spectrophotometers	500000	Gems	200000
Fourier Transform Infrared (FTIR) Spectrophotometer	330000	Electronic Balance (4 digit), Muffle Furnace and 5 KVA UPS systems with batteries-2	120000
Server Xenon Wipro	50000	Spectrophotometer LT 30 -2	52000
Spectrophotometer Model UV-1800	500000	Uniform Microscope-3	54675
Function Generator-3	53700	Power Supply -5	60000
Electronic Balance-2	91400	Wooden Alamarha-5	200000
Server Xenon Wipro	50000	Mike Set-2	150000

Plan for future expansion

Future expansion planned is a three-storey research block at the location of the present canteen building. The first floor of this building will be utilized for canteen facilities and the other two floors as research centers.

4.1.4 Disabled Friendly Infrastructure

Enough planning to ensure accessibility and barrier-free environment for the disabled is done at every stage to the infrastructure facilities created in the college premises. In designing our educational, open and recreational spaces, we have kept the requirements of the disabled in mind. Our Auditorium where the College community frequently gathers is centrally located on the ground floor. Our Library, Indoor Stadium, Canteen, Prayer Hall and two Smart A/C Seminar Halls are located on the ground floor itself. Class rooms on the ground floor are usually allotted to classes with disabled students.

Our Student Support Services Centre takes immediate steps to make available to them every kind of assistance they are eligible for from the Government, University or other agencies, including extra time for University examinations. Some are also provided free transport from their homes to the institution and back. The library has been provided with a wheel chair and special ramp.

4.1.5 Details of the Residential Facilities and Various Provisions.

Hostel facility is provided with **accommodation for 300 students** in three hostel buildings. UG students have shared - occupancy, whereas PG and PhD students and staff have single occupancy. Each student has her own allotted space, cot, table and chair, uninterrupted power supply with the help of generator and solar system for free hot water facility and lighting.

- **Recreational facilities, yoga center, free on-campus Counseling Centre** with professional counselors and free medical aid centre with a Gyneacologist and general medical officer in the campus are available at the service of the inmates. Continuous supply of cooled and purified

potable water, mess hall with a seating capacity of 400, an audio-visual recreation hall and a very spacious open courtyard with two shuttle courts which allow free movement and sociability add to the hostel comforts. Services and guidance of an administrator, three wardens, mess manager and accountant is always available to the students. The hostel is under the full time vigil of security personnel. Single occupancy residential facility is available for the college staff too.

- **Computer and internet facility** is available full time in a special computer room with several nodes, besides the facilities provided in the college library.
- In case of medical emergencies, students are taken to the speciality hospital close to the hostel.

4.1.6 Campus Health Care for Students and Staff

The provisions made available to students and staff in terms of health care on the campus and off the campus include,

- One-time free complete medical check-up for all UG students
- Free clinical assistance of a Gyneacologist and a general medical officer
- Free on-campus professional counseling
- Periodical on-campus free medical camps
- Awareness classes by specialist doctors on preventing fatal diseases

All the above facilities are open not only to the staff, students and faculty but to the local women population as well.

4.1.7 On-campus Common Facilities for Special Units

The details of the facilities provided for special units are tabulated as shown below:

Facilities Provided for Special Units

Sl. No.	Unit	Facilities
1.	AICUF	Adequately furnished Office, full-fledged computing facilities, intercom and notice boards
2.	Audio Visual Studio	For special recordings and gatherings with sophisticated acoustic controls
3.	Auditorium	Centrally located with 1500 seating facility and open air quadrangle turf amphitheatre with 5000 seating capacity
4.	Canteen	Cafeteria furnished to cater to at least a hundred at a time
5.	Career Counselling and Guidance	Adequately furnished Office, computing facilities, intercom, notice boards, books on career examinations
6.	Comfort rooms	62
7.	CSS	Adequately furnished Office with computing facilities
8.	Grievance Redress	Adequately furnished Office and grievance boxes

	Cell	
9.	Health Centre	A spacious clinic visited by two doctors regularly, cost free consultation facility with essential equipments
10.	IQAC	Adequately furnished A/C Office, computing facilities with printers, scanners and copiers, intercom and notice boards
11.	NCC	Adequately furnished Office, computing facilities, intercom and notice boards, facility for obstacle training, firing range manned by a faculty who is the Associate NCC officer
12.	NSS	Adequately furnished Office and store room
13.	Placement Unit	Adequately furnished Office and computing facilities
14.	Prayer Hall	Open access to all faculty, staff and students of all religions; Calm, serene and spiritual atmosphere
15.	Recreational spaces for Staff and Students	Indoor spaces with indoor game facility, rest and relaxation rooms
16.	Safe drinking water facility	Twenty-four hours free flow of safe drinking water, 252 taps, water purifiers and coolers
17.	Seminar Halls	Five Seminar halls with smart boards
18.	Watchman	B Type Living Quarters with free electricity, water supply, food and accommodation
19.	Women Development Cell	Adequately furnished Office, computing facilities, intercom and notice boards

4.2. Library as a Learning Resource

The library is the heart and treasure house of knowledge and information and it is an essential and integral component of this institution. St.Joseph's College library is reputed as an excellent one which houses 60,000 books, 305 journals and periodicals, 1025 CDs and cassettes. It has INFLIBNET (N-List) facility for accessing 75,000 e- books and 3000 e-journals.

4.2.1 Library Advisory Committee

The effective functioning of the library is ensured by a Library Advisory Committee headed by the Principal (Chairperson) and assisted by the Vice Principals (Vice chairpersons), Librarian Gr. I(Convenor), Librarian Gr. IV (Secretary) Heads of all departments (Executive Advisors), Senior Superintendent (Executive Member) and three student representatives – one each from Science, Humanities and Commerce.

User-friendly initiatives: The cordial, co-operative and the informed staff of the library keep the library user-friendly by making the dealings easy and comfortable. The completely automated functioning of the library makes the transactions still easier. Open Access system, Access using Smart Cards, Electronic Book Search-Author-based, Subject-based, Title-based and Publisher-

based, Access to e-books and e-journals through INFLIBNET, Disciplined use of library ensured through installation of CCTV cameras etc., are some of the user friendly initiatives.

4.2.2 Library Lay-out:

The 978.58 sq. meter well ventilated, intelligently lighted up and comfortably furnished two-storey full automated library with a seating capacity of about 360, remains open for 12 hours on all working days (7 a.m. to 7 p.m.). On all Holidays (except Sundays and Public Holidays), before and during examination and during vacation, working time is from 8.30 a.m. to 4 p.m. The facilities offered include carrels, lounge area, IT zone and a ramp.

4.2.3 Library Plan and Amount Spent For Procuring Reading Materials And E - Resources.

Library Purchase and Use (Library Budget)

Every year a certain amount is earmarked for the purchase of library books and journals. First preference is given to reference books related to the syllabus of various programmes.

The Heads of the Departments provide the list of current titles, both print and e-journals, to be purchased. The prime source of e-journals is, however, the N-List offered by INFLIBNET to which this institution is a subscriber.

Library Holdings

Library Holdings	Year -1 2008-09		Year – 2 2009-10		Year – 3 2010-11		Year – 4 2011-12		Grand Total	
	No.	Total Cost	No	Total Cost	No.	Total Cost	No.	Total Cost	No.	Total Cost
Text books	205	48013	11	22749	91	17053	111	27622	517	115437
Reference Books	990	335578	55	175399	2041	952374	132	568899	3720	2032250
Journals/ Periodicals- Additions	09	3450	02	4500	34	54105	07	2820	52	64875
Journals/Periodicals- Renewals	286	69028	29	85025	297	99500	331	90719	338	344272
E-resources	02	56000	03	78000	02	74000	05	80000	12	288000
Other Items										
Globe	-	-	-	-	-	-	01	895	01	895
Maps	-	-	-	-	-	-	06	1250	06	1250
Total	-	512069	-	365673	-	1197032	-	772205	-	2846979

This academic year, 15 CCTV cameras are installed costing Rs 2.25 lakhs to facilitate disciplined and responsible use of library resources. Thus a total amount of Rs. 31 lakhs have been spent approximately, only for library facilities during the last five years.

4.2.4 Details on the ICT and Other Tools Deployed to Provide Maximum Access to the Library Collection

The very entry into the open-access library is regulated by a sensor identified e-card issued to every student. Advanced Computer aided search enables author-based, subject-based, title-based and publisher-based search facilities. All the following facilities are available at the library:

OPAC: On-line Public Access system is in operation in the library.

Electronic Resource management Package used: N-List of INFLIBNET

Federated Searching Tool used to search Articles: Greenstone

Library website: www.stjosephlibraryirinjalakuda.com

In-house/remote Access to Publications: Through Personal ID provided by N-List

ICT and Other Tools

ICT Facility	Details
Library Automation	Registered open access system, Computerized management of library operation, Computer based retrieval of information, Bar coded issue and return/Book reservation
Computers for public access	20
Printers for public access	02
Internet band width/ speed	4Mbps
Participation in Resource sharing networks/consortia (like Inflibnet)	INFLIBNET- N-List

Among the other facilities offered by the library are Institutional Repository, Reprography, Scanning, Colour laser printing etc.

4.2.5 Usage of Library

Usage of Library

Particulars	Number
Average number of walk-ins	70000 per year, 184 per day
Average number of books issued/returned	13,500 per year, 39 per day
Ratio of library books to students enrolled	38:1
Average number of books added during last three years	1410 per year
Average number of login to OPAC	13,403 per year, 39 per day
Average number of login to e-resources	69 per day
Average number of e-resources downloaded/printed	227 per day
Number of information literacy trainings organized	23 per year
Details of "weeding out" of books and other materials and its cost	20-25 per year, below Rs.500/-

4.2.6 Specialized Services Provided by the Library (Specialized Services)

Specialized services offered by the library include the following:

Details of Specialized Services Provided by the Library

Specialized services	Details
Reference books	56610
Reprography	Photocopying, Computer printouts
Information deployment and notification	New arrivals displayed; Information and Notification put on the Library Notice Board
Download/day	187
Printing/day	40
Reading list/ Bibliography compilation	Author, Title, Subject and Publisher based
In-house/remote access to e-resources	In-house access to any e-resources, Remote access to INFLIBNET
User Orientation and awareness sessions/ year	23 sessions
Assistance in searching Databases/day	90 and above; Electronic search-author, subject, title and publisher based makes search independent.
INFLIBNET/IUC facilities	INFLIBNET , N-List facility with individual ID for the whole college

4.2.7 Library Staff and Support to Students and Teachers

Support provided by the library staff to the students and teachers of the college is of the following kind:

- Information support
- Book reservation facility
- Search and location assistance for printed as well as e-learning resources through N-List and other educational web-sites
- Reprographic facility
- Scanning, printing and CD writing
- Colour Printing
- Project Preparation

4.2.8 Library Facilities For Specially Challenged (Facilities for the Differently- abled)

Braille Books are available in our library. Our Library offers Wheel Chair and Ramp facilities for the differently abled. Physically disabled students are given special preference in issuing books.

4.2.9 Feedback Mechanism

In order to improve the service of the library we have introduced the following feedback practice:

- At frequent intervals, a feedback format is issued to every student and the filled in form is collected. The Vice Principal analyses the feedbacks and

communicates the result to the Principal who issues to the library staff necessary corrective instructions, if needed.

- A grievance box is provided in the library and the grievances, if any, are scrutinized once in a month by the Redress Cell and remedy provided for genuine complaints.
- The Principal conducts adhoc sample survey among students, faculty on the effectiveness of service offered by the library staff
- Students' Council and Grievance Redress Cell are also active in encouraging students to participate in the process. Some of the students' grievances and redressal offered are given below.

Grievances and Solutions

Grievances	Solutions
Unavailability of prescribed text books	More number of text books are bought
Number of books issued at a time restricted for degree students	Increased the number of books
The period for keeping the books before return was of short duration	Duration of the period increased
Books to be issued even before 3:00 PM, the issuing time	Books can be booked for issuing at any time of the day, but taken out only after 3:00 PM
Lack of discipline in library	CCTV cameras were installed

4.3 IT Infrastructure

4.3.1 Details on the Computing Facility Available in the Institution

The college provides computing facility to the staff, faculty and the students with its 300 computer systems and an equal number of allied accessories and internet connectivity. Its computer centre is of the Stand-alone kind, but LAN connected.

Details on the Computing Facility Available in the Institution

Facility	Details
Configuration	Intel(R) Core (TM) 2 Dual CPU, E7500@2.93 GHz and Intel (R) Pentium(R) D CPU,2.80 GHz
Softwares available	SPSS, Coreldraw, MATLAB, Tally11.0, Adobe Pagemaker7.0, Sigmaplot, LaTeX, Texmaker 3.5.2, LaTex Equation Editor1.01,Graphpad,- InStat, Stata, Relative quantification, CryptoForge, gnu-crypto-2.1.0.net application, Bioinformatic tools- Phylip, Clustal, Probit Analysis, Python, SPARK & e-solutions for office automation, Final Cut Pro 6.0.6
LAN Facility	Five broadband connections, fully LAN connected
Computer: Student ratio	1: 6
Nodes with internet facility	300

4.3.2 Off and On- Campus Computer and Internet Facility

Free Internet and computer access is available to the staff and faculty during the college hours. The entire campus is LAN connected. Wi-Fi facility is available in limited areas in the campus.

4.3.3 Institutional Plans and Strategies for Deploying and Upgrading the IT Infrastructure and Associated Facilities.

a) The IT infrastructure upgradation plans of the institution chiefly involve:
- Upgradation of internet band width from 4 Mbps to 16 Mbps
- Fully Wi-Fi enabled campus
- ICT enabling in all classrooms
- Development of virtual learning technology
- Hosting web server

b) **Strategy for Deployment and Up-gradation**
- According to the changes in syllabus of IT related subjects, introduction of new courses, etc. new softwares are purchased. According to the requirements of software, computer capacity is upgraded.
- Increase in ICT enabled class rooms, use of virtual lab, use of e-content from remote sources
- Increase in the number of computers is according to the requirements placed by the department heads, especially by the Department of Computer Science.
- Need and necessity of users is always taken into consideration.

4.3.4 Provision in the Annual Budget for Procurement, Upgradation, Deployment and Maintenance of Computers and their Accessories

Year	Procurement		Upgradation		Deployment		Maintenance		Total (Rs)
	B*	A*	B*	A*	B*	A*	B*	A*	
2008-09	200000	197491	7000	6890	200000	197491	21000	21353	225734
2009-10	330000	334977	7500	7454	340000	334977	24000	24082	366513
2010-11	2300000	2276169	6000	5850	2280000	2276169	55000	54586	2336605
2011-12	160000	167278	6500	6500	180000	167278	150000	140973	314751
Total	2990000	2975915	27000	26694	3000000	2975915	250000	240994	3243603

B* - Budget, A* - Actual

4.3.5 ICT Enabled Teaching Learning in the Institution

Integrating ICT into teaching methodology, our teachers use technology to improve student learning outcomes, to enhance achievements and to extend interactions. Technology has empowered our teachers and they make extensive use of ICT resources. These are utilized for teaching as well as accessing e-content and virtual lab facility in class rooms.

Our teachers are trained in the following ICT domains:
- Preparing multimedia materials with Authorware™
- Using Macromedia Flash™ to create animations
- Editing pictures with Adobe Photoshop™
- Creating web-pages with Dreamweaver™

- Video-conferencing with professors in foreign universities using 'Skype'
- Students present their seminars using power point and enrich their seminars with the help of materials downloaded from educational web-sites.

4.3.6 Learning Activities and Technologies for Student-centric Teaching

Institution is still in the process of transition from teacher-centred to student centred teaching. Teachers are given training in understanding the significance of the role of teacher as a facilitator. ICT enabled teaching in class room is playing an important role in this. For example, certain topics related to the syllabus are allotted to the students for paper presentations. Students present them with the help of ICT. The teacher guides them throughout the process. Presentation is usually followed by GD where all the students actively participate. So, it is a kind of independent learning style. The teacher in this process is a facilitator, helper, coach, guide and an assessor. The students benefit from technology in classroom in the following ways:

- They master basic and advanced skills with greater clarity and thoroughness.
- Technology impacts them positively by developing self reliance and self confidence.
- The students get interested while working with the gadgets and feel less pressure in learning because of the verbal, written, quantitative and graphical display digital technology affords.

4.3.7 Details of the National Knowledge Network Connectivity

Indeed, this institution is keen on becoming a part of the knowledge revolution obtaining connectivity with all the knowledge and research institutions in the country through NKN high bandwidth/low latency network. The formalities in this regard are under way.

4.4   Maintenance of Campus Facilities
4.4.1 Optimum Allocation and Utilization of Financial Resources for Maintenance and Upkeep of College Infrastructure

In order to ensure optimum utilization of financial resources, management has appointed a responsible person who is vigilant about the maintenance needs of all equipment, computer etc., of the departments, furniture and fixtures of class rooms and the building, all the construction work and the workshop which is busy throughout the year. Department Heads inform the Principal about all maintenance needs and with her sanction, the maintenance in-charge sees that the available resources are optimally used according to the need-based priority. If the required amount exceeds the budget, request is placed for extra resources.

Furnished below is a statement of expenditure on different infrastructure maintenance heads during the last four years:

Statement of Expenditure

No.	Head	Year	Amount of Allocation	Amount Utilized	% of the Budget
a)	Building	2008-09	4200000	4152279	98.86
		2009-10	4530000	4529731	99.99

		2010-11	3500000	3457932	98.79
		2011-12	5000000	4889210	97.78
	Total		**17230000**	**17029152**	**98.83**
b)	Furniture	2008-09	650000	666572	102.54
		2009-10	250000	277638	111.05
		2010-11	101200	111103	109.78
		2011-12	260000	255265	98.17
	Total		**1261200**	**1310578**	**103.91**
c)	Equipment	2008-09	1055000	1052857	99.79
		2009-10	420000	420415	100.09
		2010-11	640000	631253	98.63
		2011-12	790000	781981	98.51
	Total		**5155000**	**5136506**	**99.64**
d)	Computers	2008-09	200000	197491	98.74
		2009-10	330000	334977	101.50
		2010-11	2300000	2276169	98.96
		2011-12	160000	167278	104.54
	Total		**2990000**	**2975915**	**99.52**
Grand total			**26636200**	**26452151**	**99.30**

4.4.2 Institutional Mechanisms for Maintenance and Upkeep of the Infrastructure, Facilities and Equipment of the College

For routine maintenance of the civil structures of the college we have engaged permanent civil contractors who keep on adding to the existing infrastructure or maintain the structure that needs upkeep including oiling and painting. We have on-campus workshops, smithies and work-sheds where permanent workmen are engaged round the year in either manufacture or repair of fittings, furniture and facility systems like electrical and water supply networks, motors and pump-sets and the large number of class-room, office and other kinds of furniture items. For the maintenance of computer systems and related gadgets, we have permanent contractual agreements with local service providers (AMC with Epsilon, Vellangallore, Unitech Power Solutions Aluva, LNT Power Solutions etc.), who repair the systems and gadgets, whenever needed. Two electricians see to the upkeep of all electrical equipment, generators, HT system etc. at least once in a month. A Supervisor appointed by the management ensures that the upkeep and maintenance of all infrastructural facilities available in the campus are intact.

4.4.3 Frequency of Calibration and other Precision Measures for the Equipment / Instruments of the Institution

We have work arrangements with local service providers to service, calibrate and repair the several types of measuring equipment in our labs once in a year. If the instrument becomes unserviceable within its service warranty period, naturally it is returned to the suppliers for calibration service or replacement.

4.4.4 Major Steps Taken for Location, Upkeep and Maintenance of Sensitive Equipment

The college has its own HT installation and generators that ensure uninterrupted supply of power. In the supply of water also the college has its own bore-wells, ponds, rain-harvesting installations and supplementary municipal supply. It has enough number of overhead tanks and distribution network throughout the campus. Our own full-time electrical and plumbing technicians keep vigil over all the electrical and water supply systems.

Regular and stabilized electricity supply (440 volts) is maintained at any cost for the smooth functioning of the laboratories and its instruments. Necessary and adequate provisions have been made for continuous supply, constant voltage, adequate load, desired level of illumination, proper electrical fittings etc.

In order to maintain stabilized and drift-free instrument operation, voltage control is achieved through the use of stabilizers and UPS. There is additional provision also for Diesel Generator sets (63 KV). Care is also taken to earth-connect all equipment and avoid a shock hazard.

This institution always plans ahead to ensure that its infrastructure development keeps pace with its academic growth and that the available infrastructure is optimally used. Additions are made and existing ones are augmented whenever need arises.

Criterion V
Student Support and Progression

The Vision and Mission of St.Joseph's College is focused on moulding the students as good citizens of the country, grooming, transforming and empowering them to be competent and capable of taking up the challenges offered by the global market. The student support and progression offered in this institution is shown below in the form of a chart.
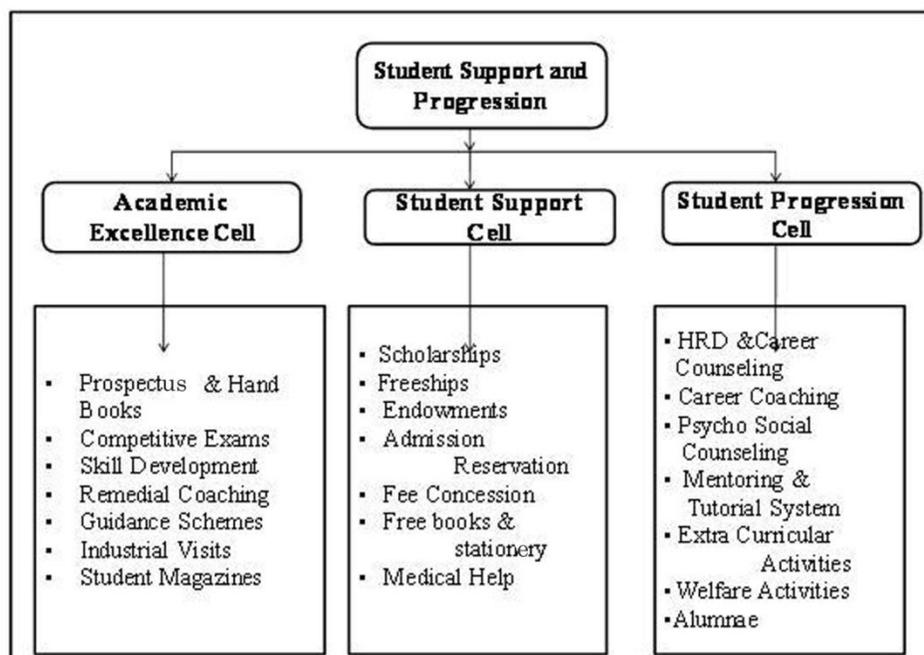
5.1 Student Mentoring and Support

Well structured tutorial and mentoring system has been an important feature of the student support system in this institution since its inception. St.Joseph's College is ever alert in offering effective and result oriented mentoring and support activities aimed at holistic development of students.

5.1.1 Prospectus/Handbook

The **prospectus** of the college is prepared for UG and PG separately, updated every year and given to the applicants along with the application forms. It contains the vision, mission, details of courses offered, eligibility, and facilities available which help the students to choose the desired course in this institution.

The Handbook is revised every year and distributed to every student, faculty and staff at the beginning of the academic year. It contains all the information required for the students for a smooth and effective college life. It includes:

- Brief history of the College, Vision and Mission of the college, Prayer, Pledge, Hymns, National Anthem and College Anthem
- Information regarding Foundress of the Holy Family Congregation Blessed Mariam Thresia and Co-founder S. D. Joseph Vithayathil
- Words of Welcome

- Programmes of Study and Curriculum : UG & PG
- Faculty, Departments and Staff
- Seats and Reservations, Admission Rules, Criteria, Fee, Attendance, Academic Life
- Scholarships, Awards, Financial Assistance
- Co-curricular Activities, Career Guidance, Extra-curricular Activities
- Infrastructure and Facilities, Labs, Libraries, Other Learning Resources, Hostels
- Statutory Information and Notices, Contacts Information
- Discipline, Do's and Don't's
- Map of the Campus
- Academic Calendar with Examination Schedules, Specimen copies of Forms and Applications
- Essential University Information and committees functioning in the College

Commitment and Accountability

The College is fully committed to the mission of uplifting the status and living conditions of women and transforming them into a workforce empowered to change the destiny of the nation. This calls for a change from the traditional, enabling them to compete successfully in the shifting globalized world. The college ensures achievement of this objective through a rigorous programme-quality self audit whereby the student-stakeholder is offered world class programmes, academic and non academic. Its social responsibility is driven by the process of defining and measuring "outcomes" and "core indicators" which relate results to purpose; its administration is largely the act of balancing social accountability and responsibility with the dynamic marketplace appropriately. Various programmes have been designed to achieve this end.

The institution is always aware of its responsibility and accountability towards all its stakeholders. This is ensured through collection of feedback from the stakeholders and timely evaluation sessions. Areas for improvement are identified and positive action taken to achieve the objectives.

5.1.2 Institutional Scholarships/Freeships

The Institution ensures the availability of various kinds of scholarships/free ships/concessions to students. They are broadly of two kinds: Government/University sponsored and college sponsored. The scholarships offered by the college are disbursed to the deserving at the beginning of the first term of the programme. The Student Support Cell functioning in the college ensures that the scholarships are disbursed without delay. The following list furnishes the details of scholarships awarded by various agencies during the last four years.

Scholarships Awarded by Various Agencies During the Last Four Years

Sl. No.	Name of Scholarship	Number of Beneficiaries	Amount in Rs.
1.	Beedi Workers Scholarship	03	9000

2.	Blind/Physically Handicapped Scholarship	02	6070
3.	Central Sector Scholarship	35	350000
4.	Cheruvathur Foundation Scholarship	01	6000
5.	District Merit Scholarship	01	8000
6.	Fisherman Scholarship	06	40936
7.	Hindi Scholarship	07	40000
8.	Kerala State Higher Education Scholarship	14	211500
9.	Kerala State Merit Scholarship	39	52750
10.	Kerala State Suvarna Jubilee Scholarship	152	1590000
11.	Muslim Girls Scholarship	15	51000
12.	Muthoot Finance Pvt. Ltd. Scholarship	01	3000
13.	Post Metric Scholarship	114	214840
14.	Sanskrit Scholarship	01	2000
15.	Single Girl Scholarship	01	20000
16.	Sitharam Jindal Foundation Scholarship	08	25200
17.	University Merit Scholarship	46	82800
Total		**446**	**2733436**

Scholarships Sponsored by the College

Sl. No.	Scholarships	Number of Beneficiaries	Total Amount
1.	Departmental Fund	188	388105
2.	Endowments	333	211105
3.	Contribution by Management	286	458180
4.	Freeships	06	104200
5.	Others	03	4000
Total		**810**	**1061390**

5.1.3 Financial Assistance from Government

40.53% of our students have received financial assistance from state Government/ University as scholarships. **14.13%** of the students have received central Government scholarships and **6.9%** of the students have received financial assistance from other National agencies. The details are shown above in 5.1.2.

5.1.4 Specific Support Services/Facilities
Student Support Cell
The specific services /facilities under this cell are the following:

- Full fee Scholarships / freeships, admission reservation, marks-relaxation for admission, stipends, free career and progression coaching, free hostel facilities, free books etc., are made available to students from SC/ST, OBC and economically weaker sections.
- Free career coaching, free books and stationery, fee concession, waiver of PTWA Fund contribution, free hostel accommodation and medical help are arranged for economically weaker, other backward and minority community students.

- **3%** seats are reserved for the physically disabled students as fixed by the Government.
- College assistance is available to students to participate in various competitions, national as well as international.
- Free consultation in modern general medicine and gyneacological expertise are available at the Darsana Family Counselling Centre functioning on the campus.

Academic Excellence Cell and Student Progression Cell

These cells provide the following facilities:

- **Full UGC support** is available to the college for organizing coaching classes for competitive exams and skill development (spoken English, computer literacy, coaching for Civil Service and NETetc.,) and also for remedial coaching for slow learners.
- The college **Academic Excellence Cell** also has free appropriate special coaching and guidance schemes for **slow learners and advanced learners**. (Details are given in 2.2.5 and 2.2.6)
- Visits and **interactions with relevant institutions, industry and corporate houses**, internships in reputed institutions are offered every year for students of all departments as opportunities for higher experiential learning.
- Publication of the **College Annual Magazine** is a regular practice, funded by the combined effort of the management, faculty and students. In addition, every department publishes its own subject-related student manuscripts.

5.1.5 Institution to Facilitate Entrepreneurial Skills in Students

To facilitate **entrepreneurship skills in students**, exposure to industrial organizations through industrial visits, interaction with successful entrepreneurs, exhibitions by women entrepreneurs, special sessions by Kerala State District Industrial Centres, special training programmes etc., are conducted. Such efforts are specifically undertaken by the department of Economics inside the campus and by the Department of Social Work outside the campus. Students of Social Work were **trained by experts of Kudumbasree Mission of Kerala State**. Thereafter, they participated in strengthening the groups of women belonging to **17 Panchayats of Thrissur district** through the Poverty Eradication Mission, Kudumbasree of Kerala State Government.

The Department of Economics manages an **Entrepreneurial Development Club** which conducts a variety of programmes for developing the entrepreneurship skills of students. The following are some of the activities.

Activities of Entrepreneurial Development Club

Year	Activities	Resource Person
03/12/12	Entrepreneurship-Project preparation	Dr. Unnikrishnan K., MD KIDCO Placement Park, IDBI and Government of

		India
15/11/12	Seminar on Research Methodology	Dr. Vimala M., Vimala College, Thrissur
11/07/12	Emerging Trends in Demographic Profile in Kerala	Dr. Babu C. C., Panampilly College, Chalakudy
29/11/11	Entrepreneurship Motivation Programme	R. Smitha, Industrial Officer, DIC Thrissur
17/10/11	Poverty- Its Extent and Measurement	Dr. Stephenson A., Christ College, Irinjalakuda
16/07/11	Interdisciplinary Seminar on Project and Research Methodology	Dr. Sindhu M., Research Assistant, Madras School of Economic Thought
11/03/11	Seminar on Financial Literacy	Dr.Vijayakumar V.K. and Team, Goejit Paribus, Irinjalakuda
20/01/11	Women Entrepreneur-Engine of Economic Growth and Development	Ms. Sitara V. Attokaren, Assitant Professor, Vimala College, Thrissur
19/01/11	Women Empowerment and their Role in Decision Making	Praveen Hafeez, Chair person, Kerala Chamber of Commerce
11/01/11	Population Trends in Kerala	Sonia Giri, Municipal Chair Person, Irinjalakuda
04/01/10	Fiscalism in Kerala	Shyjan D, Lecturer, John Mathai Centre, University of Calicut
20/02/09	Seminar on Inflation in India-Trends, Status and Problems	K.P. Rajesh, Lecturer, Govt. College, Patambi
02/12/08	Personality Development Class	Dr. Sunil K K, Director, Centre for Social Education

Apart from the ED Club, various departments of the institution promote entrepreneurial and soft skills through various enrichment and vocational certificate programmes.

5.1.6 Promotion of Extracurricular and Co-curricular Activities

This institution has special training schemes for students interested in art and cultural skills and these training schemes imparted by experts drawn from external sources go on throughout the year under the supervision of a faculty. The college arts club also coordinates students interested in specific art forms and trains them in the respective areas. Students in large numbers participate in University Arts Festival held at Zonal and Inter-zone levels, and the prizes and awards they bag are considerable. The college has well-trained dance and drama troupes, choir, debate, discussion, quiz, music and mime teams. Individual student artists get into these teams through a rigorous process of 'Talent Seeking Programme' held at the beginning of the academic year.

Sports & Games

The Institution has taken keen interest in identifying and promoting students talented in sports activities. It has produced 10 international, 150 national, and 355 inter university players in various sports items. The college has excellent infrastructure facilities which consist of an Indoor stadium, Fitness centre, Wellness center, Yoga center and the like. In particular the college provides hostel accommodation and food, free of cost for 25 sports students, which amounts to 9 lakhs per year approximately. Mr. Stalin Raphael, faculty of the department of Physical Education who has international exposure, is an expert in the field of sports psychology. This expertise has been beneficial to the students and is reflected in their achievements. This academic year nine of our students won the National Volley Ball Championship held at Varanasi and held high the name of the institution and the University.

Kerala State Sports Council has been extending financial support to the college for Volleyball Sports Hostel since 1980 and school sports hostel for Volleyball players from 2007 onwards. The aim of school sports hostel is to catch them young and chisel them out as top-class global players. The college has sports hostel facility as well for **13** Volley Ball players.

Additional Academic Support and Flexibility in Exams: In every class facilities for additional academic support is arranged by the class teachers for sports students. They are included in the **'Each one Teach One'** programme, where their own class mates give them tips regarding the portions completed while they lose classes due to competitions outside. On special request to University, flexibility is allowed in writing exam as well. For example, the volley ball national winners were allowed to write special exams by the V.C. since the University exams took place during the competition.

Sports Uniform, Shoes and other Materials are provided free of cost by the college. A Special Diet is fixed for sports students and the arrangement for the same is made in the hostel.

Sports Day conducted every year is an occasion to instill sportsman spirit in all students and to appreciate the talents of sports students.

The teak-floored multipurpose indoor stadium with a gallery seating capacity of 3000 with facilities for Volley Ball, Basket Ball, Ball/Shuttle Badminton etc., is a pride of the institution and it has been venue for various national / state / university level and intercollegiate competitions.

Outdoor stadium with football court promotes the athletic talents of students.

St.Joseph's Volley Ball Team has **won the University competitions** for the past **30 years without fail.**

5.1.7 Support and Guidance for the Competitive Exams
The institution has always given a special emphasis to provide guidance and support to students and to arrange classes by experts for almost all competitive

examinations. All the PG departments incorporate the **training for UGC/CSIR, NET/JRF** examination while teaching the Syllabus. In addition to this, additional training is provided by resource persons from outside the campus. The details of the outcome on this behalf, for the period 2008-12 are given below:

Outcome of Training for UGC/CSIR, NET/JRF Examination

Sl. No	Examination	Number of students		
		Trained	**Appeared**	**Qualified**
1.	UGC CSIR/NET	100	65	44
2.	UGC NET	69	57	36
3.	Civil Services	14	0	0
4.	State Services	202	166	130
5.	Banks/Central Government	101	73	50
6.	GATE	12	9	5
7.	Progression Tests: National Central Universities PG Admission Test 2012 (English)	3	3	3
8.	SET	89	44	25

5.1.8 Counselling Services:
a) Academic Counselling: The Departments educate the students on the academic system and rules that regulate their academic career and the many resources available to them on campus. Various fields of counseling are:

- Guidance from **HRD and Progression Support Cell** functioning on campus for special entrance coaching for examinations like nation-wide Central Universities' PG Admission Entrance Test
- The faculty of the Departments provide guidance to each student on a wide range of academic matters including assessments and examinations, choosing their core and complementary options and scholastic difficulties.
- After the **Post Entrance Test (PET)**, students are categorized as advanced learners, slow learners and average performers. Special counselling and guidance is provided by the tutors to students of each category. Special cases which need expert care are directed to the counselling centre for psycho-social counselling.

b) Personal and Psycho-social Counseling: Our counselling programme is so designed as to support and assist students who have personal issues. Departments have faculty prepared to counsel students to resolve simple personal problems. If the faculty find the problem deep and complicated, the student is directed to Darsana, the on campus full-time government sponsored counselling centre manned by professionals.

As a result, there occurs an increase in self-confidence, assertiveness, self-esteem, and stress management in students. The College recognizes that personality development, emotional wellness, and success in academic pursuits are closely intertwined. Hence these services are offered to all the students free of cost.

c) Career Counselling: The Student Progression/HRD Cell provides the students the counselling services such as career goal setting based on assessment of individual aptitudes, guidance on viable career options available and assistance in choosing the best career oriented educational enrichment programme.

5.1.9 Career Guidance and Placement

The institution has a very effective structured mechanism to guide students to choose the profession best suited for them, to impart training in that area and to see that they pass through the tests they have to face to enter that profession and finally to bring to their notice the relevant opportunities announced. The services of a coaching centre of national repute was arranged for methodical and systematic on-the-campus coaching for the interested students after the usual class schedule and on Saturdays. Areas of coaching range from Civil Service to Bank tests. Though selected by companies, UG students prefer to go for higher studies. About **55%** of our students opt for PG courses. Hundred per cent students from departments like Journalism and Mass Communication and Social Work were directly absorbed by employers during the last four years. The professions chosen by a large number of students of this college are teaching in higher educational institutions, and schools, banks, insurance companies and IT field. Our students are placed in Divine TV Channel, SS Solution, Infosys, Wipro and many other organisations.

Recruitment Data for the Last Four Years through Campus Placement

Year	Agency	Students Selected
2011	Divine TV Channel	50
2011	Career Guidance Seminars and Training Programmes by HCL, Frank Finn Airlines and Bajaj Alliance	14
2010	Bhavishya Jyothi Scholarship Examination, NIIT	18
2009	Wipro Institute of Advanced Learning	36
2009	Placement Cell of University of Calicut	07
2008	SS Solution, a software company	44
2008	Infosys and Wipro	16

5.1.10 Student Grievance Redress Cell - Grievance and Solutions

A Student Grievance Redress Cell has been effectively functioning on this campus for the last several years and the grievance-redress data of the last four years are as shown below:

Grievance and Solutions

Sl. No.	Grievances	Redress Solutions
1.	Bus Concession Card	Solved by an agreement to produce ID card only
2.	Extension of library hours during examination season	Library hours were extended from 7 am to 7 pm during the examination season
3.	Harassment on the road	Informed the Police and solved the problem

4.	Eve teasing in the bus	Informed the Police and solved the problem
5.	Noise from the carpentry affected the audibility of lectures	Carpentry shifted to a different area
6.	Separate projector for PG and UG for Chemistry	Provided one more L.C.D. projector
7.	Speaker and fan malfunctioning	Informed the Principal and got rectified
8.	Deposit of waste near the college premises	Informed the Municipal authorities and remedy sought
9.	Problem due to narrow footpath	Footpath was re-constructed through intervention of MLA
10.	Inconvenience in moving about in the campus during the rainy season	Footpath constructed connecting various blocks

5.1.11 Provisions for Resolving Issues Pertaining to Sexual Harassment

This is a women's college and instances of sexual harassment are unknown on this campus. Yet complying with the statutory provisions, a special Cell has been formed for dealing with problems related to sexual harassment. A complaint box provided from the police station has been kept accessible to students and at any time they can report to the Principal/Police.

5.1.12 Anti-ragging Committee

The institution has an anti-ragging committee formed according to the statutory provisions; but instances of ragging have never been reported so far.

5.1.13 Welfare Schemes

Student Support Cell working under a senior faculty coordinates the numerous schemes aimed at the all-round welfare and well being of the students. The schemes are listed below in detail.

Orientation: New students are briefed on matters pertaining to the programs /courses, fees, accommodation and the rules and regulations of the college.

Counselling: Counselling services on academic and non-academic matters are available to all students, as explained earlier.

Mentoring and Tutorial System: The College has been practising the mentoring and tutorial system for the past two decades in a very effective manner. Twenty to thirty mentees are entrusted to the care and supervision of each faculty in the college. Throughout the academic programme the mentor watches closely the academic progress of the student and directs and helps her to choose a fulfilling career in life.

Financial Assistance: In addition to the assistance offered to the students by the government, the college has its own schemes by which the poor and the needy can get financial assistance not only for purposes of the course but also for personal and family needs. We have schemes for housing for the homeless. The library also comes forward with help for the poor through its Book Bank which lends to

them prescribed text books for use during the course period free of charge. They are exempted from fee payment and are provided with free uniform and financial assistance for study tour, treatment, higher studies etc.

Extra Curricular Activities: Students are encouraged to participate in extra-curricular activities.

Medical Aid: Two doctors (modern medicine) visit the college regularly and provide free consultation.

Placement and Career Guidance: The HRD/Career Guidance Cell functioning for this purpose takes care of all the student requirements for securing employment. Some of the programmes conducted by HRD are given below.

Career Guidance Sessions

Year	Thrust Area	Key Resource Persons
2011	MBA as a Career option	TIME Centre, Career orientation programme by SRM InfoTech Agency
2011	SMART ENGLISH	Keltron Career Development Programme, 'ZEACH' by Kerala Higher Education, Thiruvananthapuram
2010	Career Guidance Seminar for Commerce and Management	TIME Institute Thrissur
2010	Current IT Trends and Interview runs	HCL, Career Development Centre, Thrissur
2010	Training programme for Civil Services, Bank test and PSC test	Mr. Pradeep Kumar M, Faculty, Department of Social Work
2009	Higher Education and Career guidance	Mr. Daniel John, Vidhya Barathi Institute of Management Technology, Cochin
2009	Career Guidance Seminar	HCL, Frank Finn Airlines, Bajaj Alliance
2008	Career Opportunities in Life Sciences	Dr. Vinod Mathew, Mrs. Venetia D'Rose, L.I.F.E. Institute, Thiruvananthapuram
2008	Practical Accountancy for Professional Accountants and Tax Practitioners	Mr. Omana Kuttan, Managing Director of Tax Study Centre

Students' Home Visit by the Faculty: The institution has made it a policy that the faculty visit the homes of the students at least once during the course of study, in order to maintain a closer rapport with the student and her domestic environment so that they can know the student and her background from a closer angle. This unique practice helps the faculty to take care of her academic and non-academic needs better and to exercise the role of a mentor in a more meaningful way. It is remarkable to note that during the last four years our faculty have visited the houses of **1708** students.

Number of Home -Visits by Faculty

Year	2011-12	2010-11	2009-10	2008-09	Total
UG	632	302	296	200	1430
PG	136	51	41	50	278
Total	768	353	337	250	1708

Library

Our library, a store house of knowledge for all disciplines, providing plenty of books and journals, thousands of e-books and e-journals through INFLIBNET, internet browsing, scanning, printing, colour printing, reprography and CD writing facilities, and is a refuge for students who have a genuine thirst for knowledge. Services are available from **7 a.m. to 7 p.m.**

Hostel and Canteen Facilities

Hostel facilities for 300 students are made available in the campus. Canteen provides tea, snacks, meals and special food items any time during the day at subsidized rates.

Others: Other student support services include remedial coaching, and progression guidance and coaching, incentives for sports and arts, NCC, NSS and special assistance schemes for the differently abled. NSS has provided financial support for construction of three houses for the most deserving students, spending Rs. **2,45,000.**

5.1.14   Alumnae Association

The college has a strong association of a large number of alumnae scattered all over the world and they have been providing a variety of services to their alma mater ever since they left it. The alumnae members offer student support ranging from donations to networking as follows.

Scholarship Money: The college Alumnae Association has instituted a number of scholarship programmes, awards and endowments for incoming students. Some of the contributions of the alumnae are listed below:

- Ms. Devi E.H. contributed **One lakh** Rupees in the year 2010 and Rs. 50,000 in the year 2012 to Rev. Sr. Mary Franco Memorial Educational Charitable Trust instituted in the name of our Founder Principal.
- The reception counter with all necessary gadgets including FAX machine worth Rs. 25000 is donated by the alumnae association.
- LCD projector worth Rs. 52,000 was donated by Ms. Thankam George, Green Boards worth Rs.13, 000 by Ms. Delphy Dominic and Laser Printer and journals worth Rs. 15,000 by Ms. Sarika Menon.
- Major share of contribution towards construction of Commerce Block, Auditorium and indoor stadium in different time periods is by the alumnae.
- Contribution of Convocation coats worth Rs. 25,000 is by Ms Priya Sukla in the year 2009.
- LCD unit worth Rs. **85,000**/- at the entrance is sponsored by the **alumnae.**

Career Networking: The present students also get a jump-start on job-hunting by contacting alumnae around the world.

Contact with the Alumnae: Alumnae Association helps alumnae stay tuned in to the happenings at the college, through alumnae newsletter '**Domus'** and annual gatherings. **January 26th** has been declared as **Alumnae Day**, which brings the alumnae to the campus every year. The College website provides separate domain for Alumnae with provisions for personal mail and access for each student.

Alumnae in the Faculty: Fifty nine members of the faculty employed so far, belong to the alumnae of this institution, who have played a pivotal role in building up and carrying on the good traditions and culture of the college to the next generations.

The college alumnae has instituted a **Best Alumna Award** every year to an alumna, who has made significant achievement.

5.2 Student Progression

5.2.1 Students Progressing to Higher Education or Employment
As a consequence of student centered teaching technique followed in this institution and the research culture inculcated, a distinctive percentage of students progress to higher education and eventually to employment.

Student progression

Student progression	UG to PG	PG to MPhil	PG to PhD	Employed	
				Campus selection	Other than recruitment
Percentage	55	1	4	16.2	65

5.2.2 Programme-wise Course Completion Rate and Pass Percentage of the Last Four Years:

St.Joseph's College has a history of achieving the highest pass percentage in the University of Calicut which has **304** affiliated colleges. The college has also secured University top ranks in various programmes. Such achievements in the last four years are given below.

Programme-wise Pass Percentage Compared to Another Institution

Under Graduate Programmes									
Sl No.	Under Graduate Programmes	Our institution				Other Institution			
		2008	2009	2010	2011	2008	2009	2010	2011
1.	Business Administration	90	96	95	97	71	83	93	95
2.	Biotechnology	100	100	100	100	97	98	97	96
3.	Botany	100	98	95	95	90	93	93	100
4.	Chemistry	95	98	88	92	94	95	89	91
5.	Commerce	88	90	95	91	90	92	90	96
6.	Economics	100	100	100	100	78	79	77	76

7.	English	95	100	97	100	98	98	100	100
8.	History	100	100	98	90	96	80	88	93
9.	Mathematics	95	98	98	94	95	97	93	92
10.	Physics	94	100	100	88	90	89	87	85
11.	Zoology	100	100	100	100	94	86	83	94
Post Graduate Programmes									
1.	Biotechnology	100	100	100	100	100	90	90	100
2.	Chemistry	100	82	92	100	82	75	90	98
3.	Commerce	70	94	94	90	72	72	92	94
4.	Cyber Security	100	N A	N A	100				
5.	English	90	100	100	95	82	82	77	85
6.	Mathematics	90	100	92	83	72	80	82	72
7.	Social Work	100	100	100	100	78	81	85	92
8.	Communication and Journalism	100	100	100	100	97	98	99	100

Comparative Programme-wise Course Completion Percentage

Under Graduate Programmes									
Sl. No.	**Under Graduate Programmes**	**Our institution**				**Other Institution**			
		2009	2010	2011	2012	2009	2010	2011	2012
1.	Business Administration	72	82	94	97	71	83	93.2	95
2.	Biotechnology	100	100	100	100	96	97	94	97
3.	Botany	100	94	87	100	90	93	93	100
4.	Chemistry	98	88	92	97	95	88	92	95
5.	Commerce	90	95	91	93	92	92	91	96
6.	Economics	100	100	100	93	78	79	77	76
7.	English	100	97	100	100	98	98	100	100
8.	History	100	98	90	96	96	80	88	93
9.	Mathematics	95	97	97	95	95	97	93	92
10.	Physics	100	93	88	89	90	89	87	85
11.	Zoology	100	100	100	94	90	86	89	85
Post Graduate Programmes									
1.	Biotechnology	100	91	91	100	66	100	100	100
2.	Chemistry	83	73	91	100	83	100	100	100
3.	Commerce	70	93	94	89	72	72	92	94
4.	Cyber Security	100	NA	67	100	NA	NA	NA	NA
5.	English	88	62	66	99	82	82	77	85
6.	Mathematics	75	81	83	72	72	80	82	72
7.	Social Work	81	92	94	94	78	80	85	92
8.	Communication and Journalism	100	100	100	100	97	98	99	100

Analysis of Performance in University Examinations

An analysis of the results of the UG and PG programmes reveals that the institution has consistently maintained an enviable position in its achievements in University examinations every year, most of them touching or surpassing ninety percent mark. This is sufficient proof to show that the learning level of the students concerned has been consistently high. The faculty also can be contented that the teaching methodology has been successful. Here, the comparison is made with the nearest college which also maintains a good performance level, accredited with 'A' Grade.

5.2.3 Facilitating Student Progression to Higher Level of Education or Employment

The institution facilitates student progression to higher level of education/ employment in the following ways:

- Personal counselling, mentoring and tutorial system instilling confidence and achievement drive in each and every student
- Regular conduct of internal and semester exams, preparation of progress reports, open house programmes with parents etc., instilling an achievement drive in students
- Campus atmosphere of study, research, interaction with eminent persons, exposure to various programmes etc., encourage student progression
- Guidance sessions through career orientation classes given to the graduate and undergraduate students
- Guidance in selecting organizations for student internship eventually leading to placement
- Linkages with Government/Non government Organizations leading to employment(ACE- a Franchisee of TALLY Solutions, Bangalore)
- Coaching/ special training provided for writing examinations such as UGC/CSIR/NET/JRF and Entrance level examinations for the posts of clerk/officer in Nationalized /Scheduled Banks, tests conducted by Public Service Commission-Government of Kerala, Coaching for Entry Level Examinations of Civil Service, and CPT for CA provided
- Many awards instituted for excellence like **'Student of the Year'**, **'APJ Abdul Kalam Award'** for '**Star of Excellence'** motivating the students for high levels of achievements, along with **92** scholarships/endowments instituted earlier
- The post graduates directed to various jobs including teaching posts in various HEIs and Higher Secondary Schools, industries, NGOs etc.
- UGC funds to the tune of Rs.**28,95,000** being utilized for student support programmes- Details given below:

UGC Funding Utilized for Student Support Programmes (in Rs.)

UGC Funding Schemes	Amount Received
Colleges with relatively higher proportion of SC/ST and Minorities	240000
Equal Opportunity Centre in Colleges	225000
Remedial Coaching for SC, ST, OBC (non-creamy layer)	860000

and Minorities	
Coaching for NET for SC, ST, OBC (non-creamy layer) and Minorities	570000
Coaching classes for entry in services for SC, ST, OBC (non-creamy layer) and Minorities	760000
Career and Counselling Cell	240000
Total	**2895000**

5.2.4 Support for Students who are at Risk of Failure and Drop Out

The decline in the attendance percentage of the students reveals the possibility for drop out. The class teachers and mentors take special note of students who are not regular in the class. These students are specifically attended to in the following ways.

- The data relating to the students at risk of drop out are analyzed specially by the concerned mentor faculty at the appropriate time and she is mentally and materially reoriented to continue on the rolls of the college.
- Mentor visits the houses of such students, interacts with family members, helps them in different ways and provides them facilities for improvement.
- Financially weak students are given help from the PTWA Fund, Alumnae Fund and other appropriate scholarship sources.
- The students who happen to discontinue due to marriage are encouraged to join the next session and continue the study.

5.3 Student Participation and Activities

5.3.1 Yearly Programme Calendar Showing Sports & Games, Cultural and Extra- curricular Activities

The institution has given great importance to student participation in the areas of sports, games, cultural and other extracurricular activities. The enrichment provided to students in these areas is detailed below in 5.3.1A, B, C & D.

5.3.1. A Sports and Games

The college has excellent facilities for various sports and games like Volleyball, Ball Badminton, Football, Shuttle Badminton, Cricket, Judo, Archery, Yoga, Tennis etc., and for athletics. Regular coaching is given for these events in the campus. Besides the regular events at the college level, we are able to provide the venue for Calicut University Intercollegiate Championships in Volleyball, Shuttle Badminton, Judo, Football etc.

Participation and Achievement Data

The college is always proud of the excellent performance of its students in sports and games. We have quite a good number of international players in various items. Given below is the list of international players in the past four years.

International Players in Sports

Year	Name of Students	Name of Championships	Place
2011-12	Anju Balakrishnan	Asian Junior Women Volleyball	Thailand
2010-11	Jeena Mathew	Asian Junior Women Volleyball	Vietnam
2010-11	Neethu Haridas	Asian Youth Women Volleyball	Malaysia
2009-10	P C Thulasi	'SAF Games'-Gold Medal in Shuttle Badminton	Bangladesh
2009-10	P C Thulasi	Asian and World junior Shuttle Badminton	Malaysia
2009-10	P C Thulasi	Uber Cup Shuttle Badminton	Thailand
2008-09	Dhrisya Mohan	Senior Ball Badminton	Chattisgarh
2008-09	Archana K R	Senior Ball Badminton	Chattisgarh
2008-09	Divya K M	Senior Ball Badminton	Chattisgarh
2008-09	Deepika Baburaj	Asian Junior Women Volleyball	Thailand

Table showing the number of National, State and Inter University Players

Year	2011-12	2010-11	2009-10	2008-09
National Level	7	6	15	9
State Level	49	51	35	33
Inter University	18	25	24	16

Events

Students have participated in various events at college, inter collegiate, state, south Indian and national levels. A large number of students have been selected to the district, university, state and national teams through selection trials and they have won many contests.

Participation in District/University/State/National Teams

Sl. No	Item	No. of Events	Prizes Won		
			First	Second	Third
1.	Archery (Individual)	6	2	3	-
2.	Athletic (Individual)	15	5	3	2
3.	Ball Badminton	8	3	2	1
4.	Football	4	-	4	-
5.	Judo	8	2	4	-
6.	Kho-Kho	3	1	-	1
7.	Shuttle Badminton	5	2	-	1
8.	Volleyball	51	16	21	-

The college Volleyball team has won the Calicut University Championship for 30 consecutive years (1983- 2012).

5.3.1. B. Art and Culture
Participation Data

Students of our college participate in extracurricular activities at various levels

such as college, intercollegiate, and state levels. Students have bagged prizes in many activities in which they participated. They have participated in cultural events like group dance, theme dance, Ottamthullal, Kerala Natanam, Kuchippudi, Margamkali and Thiruvathirakkali, theatre items like drama in English, Malayalam and Hindi, Mime, Monoact, music events like Light Music, Classical Music, Folk song , Patriotic song etc.

5.3.1. C Other Extra Curricular Activities

Apart from the above - said sports and cultural activities, the institution also encourages the students to participate in extracurricular activities. It is worthwhile to mention that the students who participated in such programmes have benefited in more ways than one.

Participation Data

Students of our college have participated in extra-curricular activities at various levels - college, intercollegiate and state levels. Students have bagged prizes in various activities like quiz, speech, project analysis, Ad-zap and Hindi pre-test examinations.

Students Participation in Extra-Curricular Activities

Sl. No.	Details of the Event with place	Date(s)	Prize
1.	Inter University Quiz Competition conducted by Lochana, Vimala College, Thrissur	2011-12	1st prize
2.	Intercollegiate Quiz Competition, St Aloysius College, Elthuruth	2011-12	Consolation prize
3.	Quiz Contests- Inter-Collegiate (Literary) - St.Joseph's College, Irinjalakuda	24 /10/11	1st prize
4.	Inter collegiate and inter school Mathematics Quiz- St.Joseph's College, Irinjalakuda	05/10/10	Participated
5.	Project Analysis, Naipunya College, Pongam	10/10/10	2nd prize
6.	Ad-Zap Competition, Sacred Heart College, Chalakudy	12/10/10	1st prizes for four students
7.	Inter Collegiate and Inter School Mathematics Quiz- St.Joseph's College, Irinjalakuda	28/10/09	Participated
8.	Inter Directorate Cultural Competitions at Delhi	2008-09	1st Prize
9.	Hindi Pre test Examination	2008-09	1st Prize
10.	Quiz.com All Kerala Inter Collegiate Commerce Quiz	2008-09	3rd Prize

5.3.1. D Yearly Campus Programme Calendar

In addition to the above mentioned activities, it is the usual practice of the institution to conduct events like Freshers Delight, Intramural arts Festival, Film Festival, Poetry Performance, Fine arts Day and College Day celebrations to encourage the cultural talents of the students. The following table shows the

yearly campus programme calendar for the last four years.

Yearly Campus Programme Calendar

Particulars	2008-09	2009-10	2010-11	2011-12
Freshers Delight	13/08/2008	17/7/2009	14/7/2010	21/7/2011
Arts Festival	12/08/08	03/08/09	03/08/10	02/08/11
Film Festival	16-18/02/09	30-31/12/09	14/09/10	19/11/11
Union Day	23/09/08	-	24/09/10	22/10/11
Fine Arts Day	23/11/08	12/01/10	29/09/10	16/12/11
College Day	Yearly in the month of February			
Poet's Day	19/09/08	19/11/09	13/12/10	13/12/11
Silver Jubilee Tournament	06-07/10/08	09-10/2/10	13-14/09/10	17-18/08/11
Sports Day	06/01/09	02/02/10	01/02/11	08/02/12

5.3.2 Details of Studnt Achievements in Co-Curricular/Extracurricular/ Cultural Events at University/State/Zonal/National/International level

5.3.2 A. Achievements of NCC students

We have a strong group of NCC students who have won laurels to this institution. Some such instances are given below. Among the cadets, Dhanya Babu was an outstanding performer.

Year	Name of Students	Achievements
2011	UO Athira VU, Cpl. Saranya P S, Lcpl. Jilji C V and Lcpl. Niviya Jacob	Trekking Camp at Darjeeling
2010	Dhanya Babu	RD & YEP Selection, Singapore, Kalalayaratna - Christ College, Irinjalakuda, Award for Meritorious Service rendered to the Janamaithri Police, A P J Abdul Kalam Award for Star of Excellence from St.Joseph's College
2009	L Cpl. Asha K	BLC (Basic Leadership Camp) at Godhra, Gujarat
2009	U O Sreelakshmi AS	Trekking at Arunachalpradesh
2008	U O Sreelakshmi A S	R D Culturals Camp at Delhi

5.3.2 B. Students' Achievements in Cultural and Extracurricular Activities

Details of major student achievements in co-curricular, extracurricular and cultural activities at different levels - University/State/Zonal for the previous four years are given below.

- Quiz competition: First prize-5; second prize-9
- Drawing: Second Prize-1; 3rd prize-1
- Essay Writing: Second Prize-5

- Clay Modelling: First Prize-1
- Power Point Presentation: Second Prize-1
- Music: First Prize-1; Second Prize-6
- Multi talent contest- Second Prize-2
- Best Manager competition- Second Prize-2
- Event Marketing-Third Prize-1
- Speech competition- Second Prize-1
- Hindi contest- Second Prize-1
- Dance competition-First Prize-2; Second Prize-3
- Mono act-Third Prize-2

5.3.3 Feedback from Graduates and Employers for Improvement

The institution has a permanent system of collecting feedback from the alumnae and the employers. The collected information serves as a quality indicator for regular academic and non academic updating. The performance and quality of the provisions/facilities of the institution are regularly updated on the ground of the number and level of placement of outgoing students as well. During the last four years the rate of degree holders from this institution sought by Government/ Non government organizations for employment is on the rise. Employers have expressed their satisfaction regarding the performance of our alumnae. As per the feedback, the number and frequency of training classes and research programmes and facilities have increased.

5.3.4 Student Publications

Students are encouraged to write their own ideas and reflections, academic or non-academic, through various competitions and selection for publication.

- PG students are encouraged to publish their paper presentations in seminar proceedings and external publications.
- Interdepartmental competitions in wall magazine are conducted thrice in a year and prizes are awarded for the best three groups.
- Competitions are held in article writing on relevant topics in Hindi, English and Malayalam and the best ones are edited and published in the college magazine.
- Every department brings out its own publication regularly under faculty supervision and guidance and the list is given below.

Publication/ Manuscripts Published by the Department

Department	Publication/ Manuscripts
Biotechnology	Biotech Focus, Bioexplorer
Botany	Thusharam
Chemistry	Luminaries of Chemistry, Clippings, Chem Stars (Mss.), Alchemy (Pub.), Crucibles of Learning (Mss)
Commerce	Companion
Communication and Journalism	Commentator

Economics	Economique
English	Litscript
Hindi	Sahithya
History	Manuscript
Malayalam	'Ma-Veli', Onachamayangal, Onam, Ee Manohara theerath, Sravanam, Chinga poovili, Poovili Poovili Ponnonamayi, Onapulari, Poovili, Onanilavu, Thoosanila, Arppo
Mathematics	Mathziana, Gauntlet and Zero
Physics	RESONARE 2010-11 (Pub)
Social Work	Smirithi
Zoology	Zooquest

5.3.5 Student Council

- The college has a statutory Student Council, and the members are democratically elected in the presidential manner fulfilling all the conditions laid down in the University Statute in this regard. Every student on the rolls of the college has the right to vote in the process of election of class representatives. The Student Council thus elected has no political affiliation. The Student Council comprises 1) Chairperson 2) Vice Chairperson 3) General Secretary 4) Joint Secretary 5) Fine Arts Secretary 6) General Captain 7) Student Editor 8) Two University Union Councillors who function as the representatives of the students of this college in the University Union and 9) Library student adviser.

Student Council gives leadership to all extra-curricular activities in the college. Details regarding the Student Council are given in the College calendar. The functioning and activities of the Student council are under the guidance of the Staff Advisor nominated by the Principal. The Principal is the president of the College Union Council.

Funding of the Student Council is through the collection of a fixed amount from every student at the time of admission. If more funds are required for the activities, the council conducts some fund raising programmes like orchestra, food festival etc.

5.3.6 Student Representation in Various Academic and Administrative Bodies

The details of various academic and administrative bodies that have student representatives on them are as follows:

(1) The Student Council (2) The Library Committee (3) Anti-ragging Committee (4) Students Grievance Redress Cell (5) Hostel Mess Committee (6) IQAC (7) Anti-harassment Cell (8) Women Development Cell   (9) Student Equal Opportunity Centre (10) Magazine Committee (11) HRD Cell (12) Discipline Committee   (13) Sports Hostel Committee (14) Department Association Committees (15) AICUF (16) TLRC (17) Fine Arts

5.3.7 Collaboration of Alumnae and Former Faculty

St.Joseph's College always functions in collaboration with its Alumnae and

Former Faculty. They form an inseparable part of the institution and partake in every important function like the College Day, Staff Day, Send off, Alumnae Day etc.

The College brings out a Newsletter for the Alumnae, once a year. The online networking facilities are widely used to remain in touch with them. The alumni and the former staff are formally invited to attend every important function hosted by their department or by the college. They are invited for the college day, and the college magazine is sent to them annually. Details regarding alumnae association of the college have already been described earlier in 5.1.14.

The institution keeps a close bond with the Former Faculty in various ways. The members of the existing faculty and staff join the former members whenever there is a celebration in their household or whenever they confront a mishap.

A Core Group of 'St.Joseph's Retired Faculty Association' meet once in every month in the college campus. A contact person keeps in touch with the Staff Association. The retired faculty are invited for Staff Retirement day every year.

Other Relevant Information regarding Student Support and Progression

- ❖ Students of Research Centre of Mathematics have published 30 papers in Journals of international repute and presented 11 research papers in National/International seminars.

- ❖ Numerous alumnae of this institution have attained positions in higher echelon of research, academics, politics, entrepreneurships, art and culture. A few names are cited below:
    - Dr. Radha Devi P.V.- Scientist, Advanced Data Processing Research Institute(ADRIN), Department of Space, Government of India
    - Dr. K G Mini, Senior Scientist, Fishery Resource Assessment Division, Central Marine Fisheries Research Institute (CMFRI), Cochin, Kerala
    - Dr. Anuradha Krishnan, Project Director, G-Sat 12, ISRO, Thiruvanathapuram
    - Dr. Josileen Jose, Senior Scientist, Fishery Resource Assessment Division, Central Marine Fisheries Research Institute (CMFRI), Cochin, Kerala
    - Mrs. Letha M M, Naval Physical and Oceanographic Laboratory (NPOL), DRDO, Government of India, Ministry of Defence, Kochi, Kerala
    - Mrs. Jolly Alukkas, Enterpreuner, Alukkas Industries Angamaly
    - Dr. Kavitha Balakrishnan, Artist of National Repute, Assistant Professor Fine Arts College, Trissur, Kerala
    - Dr. Bindu R, Former Mayor, Trissur District
    - Dr. Aparna Lakshmanan S., Young Scientist Award Recipient from Kerala State Council for Science, Technology and Environment, Assistant Professor, Department of Mathematics, St. Xavier's College for Women, Aluva
    - Mrs. Usha Balaji, Classical Dancer of National Repute
    - Mrs. Rekha Menon, Telecaster in National level celebrity interview programmes in National television channels

- Ms. Bency David, the present Municipal Chair person of Irinjalakuda Municipality
- Resmy Thomas, winner Young Scientist Award in 2012 by Malhotra Wickfield Foundation, Bangalore for Excellence in Nanotechnology

Award for Excellence-2012

The Kerala Citizen Forum conferred 'Award for Excellence-2012' to the college based on the outstanding achievements of the institution such as

- 10 international players
- 143 national players
- 321 inter university players
- Gold Medal in Shuttle –Badminton in SAF Games
- Indian ranking No.1 in Shuttle Badminton Women Singles
- 25 star of India Award winners in Ball Badminton
- The First Doctor in Sports Medicine in India
- All India senior women Volleyball Team captain from the college
- All India Inter-university women Volley Ball winners
- The Calicut University Women Volley Ball Champions for the last 30 consecutive years

Criterion VI
Governance, Leadership and Management

Even in this globalized e-world, women remain disadvantaged in the spheres of education, employment, health and human rights, in spite of the numerous international declarations to the contrary. The cause chiefly identified for this plight is their invisibility in the economic, social and political processes, education and health. The solution lies in educational enablement aimed at the total development of the innate potential and skill acquisition that equips her to face challenges that the new twin-role as a home-maker and family breadwinner in the new e-world has to address. The nation also stands to gain a lot in its development exercises by the services of educated, multi-skilled and value oriented women who form more than half of its population. In this context, this institution has a great mission to fulfill as one **managed by women** (Sisters of Holy Family Congregation) **for empowering women.**

6.1 Institutional Vision and Leadership

The college management believes that education is the most effective route to the empowerment of women and development of families and the nation as a whole. Programmes and courses offered by the college are chosen accordingly. St.Joseph's College has been gifted with an array of competent Principals since its inception, all of whom actively improved the quality of the college's educational services. The college maintains a unique quality in teaching, keeping pace with the current developments. Internal quality assurance systems, frequent programme evaluations, extensive use of ICT etc. are implemented for quality teaching. The college authorities have always encouraged a culture of participative management which includes Top management, Principal, Principal's council, HODs, faculty, staff, student union, PTWA and alumnae.

6.1.1. Vision and Mission of the Institution

VISION
Women empowered and liberated through knowledge, for a brave new world of ideal families.

MISSION
Creating an educational environment for the total development of young women, in this globalized e-world, through value based holistic instruction across a wide range of disciplines, and mainstreaming a gender perspective in the national development process.

Distinctive Characteristics of the Institution:

The mission statement defines the institution's distinctive characteristics in terms of addressing the needs of society, the students it seeks to serve, institution's traditions and value orientations and vision for future, in the following ways:

- **Creating an educational environment for the total development of young women:** The institution has always held high its objective of

endowing women with a purpose and vision to be ideal mothers and citizens.

- **Providing value based holistic instruction:** From the very inception of the college, the founders were determined to add the value orientation in the very fabric of the institution. It is a unique feature that a special hour is dedicated every week for value orientation to the students. The institution stands for imparting education that is functionally useful, socially relevant and morally uplifting to meet the challenging demands of the present society.

- **Mainstreaming a gender perspective in the national development process:** Educated and empowered women can play a vital role in the nation building process. Women who constitute half of the population of the country, if properly groomed, can change the destiny of the nation. This is the institution's vision for the future.

- **Quality instruction across a wide range of disciplines:** The high quality education provided here, spread across a wide range of disciplines, provides ample opportunities to grab employment offered by the times at global level.

6.1.2. Role of Top Management, Principal and Faculty in Design and Implementation of its Quality Policy

Top Management: The management under the Congregation of Holy Family Sisters, is convinced of the fact that education is the most powerful tool for the empowerment of women and welfare of families. In the choice of programmes, the Management has taken care to offer those which are consistent with the vision, mission and goals of the institution. Some new generation courses like MSW, MCJ, MSc in Cyber Security, BSc and MSc Biotechnology etc., were deliberately chosen to empower women and make them employable. The State Government and the University of Calicut to which the College is affiliated do not provide for autonomy of affiliated colleges. Hence, the common University curriculum we have to adopt has been supplemented with components of regional and vocational relevance from the gender perspective at the instance of the management. Arts and Sports, Self defense skills in Judo and Karate, Computer education, Add-on courses enhancing employability etc., were promoted at the initiative of the management. Developing infrastructure for curricular, co-curricular and extra-curricular activities, residential facilities, financial support and career guidance are the various forms of student services the management offers in order to maintain the quality of the programmes offered.

Principal: St.Joseph's College is fortunate to be gifted with an array of competent Principals at its helm down the years, who could successfully steer it towards the defined goals. Rev. Sr. Franco, the Founder Principal, who guided the institution for **26** years, was a Post Graduate in English from USA. The current Principal, who procured her Doctoral Degree in Physics from the prestigious Anna University where she could draw inspiration from the genius of the Space Scientist turned Indian President, Dr.A.P.J. Abdul Kalam is successfully guiding

the institution, with a research outlook and humanitarian interest. During her tenure three research centres were sanctioned.

In this institution the Principal promotes quality improvement in the college's educational services in the following ways:

a) Ensuring the quality of learning which forms the foundation of the kind of education the institution visualizes and imparts
b) Maintaining stakeholder relationships supportive to the above objective
c) Providing relevant, timely training for faculty and staff to enable them to provide quality education
d) Ensuring the commitment and accountability of all teaching and non-teaching staff
e) Creating a learning environment that values the academic, vocational, spiritual and developmental needs of all the students, integrating all these characteristics in a holistic way
f) Ensuring effectiveness of management through collaborative, co-operative and consultative methods
g) Acquiring adequate skill and knowledge in modern educational management systems including Campus ICT
h) Increasing access to electronic and digital information that is becoming the norm for many of our students
i) Promoting research and maintaining a research environment in the institution
j) Involving in the needs of the society and taking the initiative to effect a remedy

Faculty: Our institutional commitment to quality teaching has compelled us to identify benchmarks, promote good practices and think of effective support that meets teacher and student expectations. Our institutional policy is to understand better the teaching process and the experiences initiated by teams or individual teachers. Quality culture is deeply embedded from the very inception of the institution by the pioneer faculty, most of whom were led by department heads trained in American Universities. As such, the institution maintains unique quality standards, keeping pace with the current developments.

Faculty policy for quality teaching encompasses a wide range of initiatives that can be grouped under three major heads:

1. Institution-wide quality assurance policies: Internal quality assurance systems are designed to develop a quality culture at institutional level, in which faculty have a major role to play. Faculty attend various training programmes from time to time to keep pace with developments in modern concepts of education and technology.

2. Programme monitoring: Through frequent programme evaluation, the design, content and delivery of the programmes are continuously measured and steps are taken to enhance quality.

3. Teaching and learning support: Provision is made for maintaining a positive atmosphere which facilitates teaching and learning, including use of ICT in classrooms and laboratories.

The following measures are undertaken for the effective planning and implementation of policies in this institution:

- Governing Council meetings held at the beginning of every semester to assess the faculty requirement, development needs etc.
- Daily meetings of the Principal's Council, to ensure that daily operations are carried out according to the set plans
- Weekly meetings of the Heads of Departments, to plan pin pointedly the activities of the week ahead
- Faculty Meetings at the end of every month to evaluate the month's activities against set targets and to plan for the month ahead
- Regular committee meetings for the implementation of strategic plan modules
- IQAC Core committee meetings with Principal, Heads of departments and the faculty at regular intervals to ensure and evaluate quality sustenance and enhancement programmes
- Dissemination of information to student body, implementation of plans and collection of feedback through class representatives

6.1.3 Involvement of the Leadership
In Ensuring that the Policy Statements and Action Plans Fulfill the Stated Mission

The leadership maintains a clear vision of where the programmes should lead the students, and adopt a pedagogical strategy that comprises a range of actions that serve our educational goals.

- The various committees stated earlier from the management to the IQAC level are committed to see that the policy statements and action plans are commensurate with the vision and mission of the institution. Our leadership regularly evaluates the relationships of the institution with its stakeholders and communities.

- Formulation of action plans for all activities of the institution and incorporation of the same into the institutional strategic plan is an important aspect of policy formulation in this institution. At the beginning of every academic year, the first week is set apart for this activity. For decades this is a healthy practice followed in this institution. Fifty committees and seventeen departments function in this institution in the performance of various curricular, co- curricular and extracurricular activities. All departments and committees are asked to prepare the action plan for the coming academic year. After scrutiny and feasibility assessment, the finalised programmes and projects are incorporated into the strategic plan by the top authorities.

- As an institution run by the Sisters of the Holy Family which is dedicated to the development of families and societies, **constant interaction with stakeholders** and efforts to promote their welfare are of primary importance. The personal interview with students, tutorial and mentoring system, frequent family visits, meetings of parents, teachers, well wishers

and alumnae, newsletters and personal communications through teachers of each department etc., ensure such interactions.

- **Policy and planning is done after discussions with stakeholders** in the respective meetings and through feedbacks and discussions. New programmes are initiated only after proper analysis of the need and relevance of the proposed projects. The research inputs and facilities, opportunities for consultancy and extension etc., are discussed by a team of experts and final decision taken by the leadership in view of welfare of all the stakeholders.

- The efforts taken by the leadership of this institution **to develop a culture of excellence** is unique and outstanding. Even before the inception of the institution, a team of graduates were sent to US for their post graduate studies with this sole objective. The strong foundation of excellence they laid is the secret behind its fast growth and elevation to the status of a reputed educational institution. The present leadership, through various training programmes and provision of facilities for learning and research, enhances that honourable status. The IQAC and Academic Excellence Committee play an important role in this endeavour.

- **Leadership, as a champion of organizational change** is always vigilant in observing the changes in the global academic scenario, and updating the programmes and facilities accordingly. The commencement of rare professional courses, research centres, modernizing education and administration through use of computer and internet facilities, ICT enabled class room teaching, registering for virtual lab, water harvesting, use of solar energy etc., are some examples.

6.1.4 Procedures Adopted by the Institution to Monitor and Evaluate Policies and Plans

Our plans and policies lie intertwined with our commitment to expand women access to higher education without compromising quality to ensure that the economic, social and market needs are met in the areas of intellectual development and human resource provision. For monitoring, we prepare annual work plans, including improvement targets, action plans and budgets for the college, departments and committees. Monitoring of all activities is done on a daily basis by the Vice Principal's council and IQAC. The evaluative report for the month after monitoring will be presented in the monthly faculty meetings. All the heads of departments also present their observations, suggestions for improvement and resource requirement. The annual evaluative report is presented by the Principal to the top management and stakeholders. PTWA Executive Committee Meetings, Annual General Body meeting and the Annual day offer a platform to present and discuss the implementation of plans and policies. Feedback is collected regularly on the performance of every teacher, department and the institution as a whole from all stakeholders. In the light of the above, policies are formulated for the upcoming year. The progress of student learning achievement is systematically monitored in the existing system and this ensures

the efficiency of performance of the institution. Our system of governance and management is closely linked with transparency and accountability and supported by competent Governing Body with clear job descriptions for each person in management.

The Annual Quality Assurance Report prepared by our IQAC and submitted to the NAAC also takes stock of the goals mooted and achieved every year and accounts for lapses if any. This yearly exercise gives us an opportunity to look at our functioning closely every year and to think of innovations or improvement wherever needed.

6.1.5. Academic Leadership Provided to the Faculty by the Top Management
The top management of course takes steps to nurture the careers of faculty members with diverse abilities and goals by engaging them in workshops and practical sessions designed to give them the skills and confidence to balance competing demands.

- Interactive training sessions are given to the faculty by the former Principals and veteran retired professors of the institution.
- Manager addresses the faculty and staff at the beginning of the academic year, where top achievers are acknowledged.
- One week orientation programme is held for the faculty to trigger the activities of the year with vigour and enthusiasm.
- Training is imparted to faculty in the use of ICT, e-content development etc.
- The gadgets and other facilities needed to cope with the technological revolution in classroom teaching are provided.

6.1.6. Leadership Groomed at Various Levels
For students we usually arrange Leadership Development Programmes (LDP) in negotiation, organization, public narrative, emotional intelligence and public speaking, handled by external experts. These programmes play an integral part in building leadership, team, communication and community service skills.

- Usually in the first week of the semester, students are given personality development programmes. Their talents are identified and training is provided individually and in groups, especially on occasions like Freshers' Day, Talent Search programme etc.
- For Quiz, Debate and GD club we handpick students who are able to participate in national /international level and training is given.
- Those talented in dance, music and instruments are also given special training.
- Student Council activities throughout the year under the student advisor, participation in the fine arts and sports competitions at the college, zonal, inter-zonal, state and national levels provide ample opportunities for grooming and polishing leadership.
- HRD wing of the college is active in pinpointing opportunities for higher studies, scholarships, competitive examinations and job placements.

- All co-curricular and extracurricular activities done in committees and associations foster the leadership of both faculty and students.
- Annual Staff Day Celebrations, team-wise competitions etc., are occasions when the talents of faculty are encouraged and appreciated.
- Activities in NCC, NSS, AICUF, Women Development Cell and Departmental Clubs and Associations provide ample opportunities in grooming leadership.

6.1.7 Decentralized Governance System of the Institution

This institution is structured into two broad divisions: academic and administrative. Academic units, called Departments, are guided by Heads and faculty are part of these academic units. The executive head of the administrative unit is the Superintendent, and the Principal, who is the 'Chief Executive Officer of the institution', oversees the functioning.

The Principal, the head of the institution, is assisted by three senior faculty members, of whom, two are Vice Principals to whom certain authority and responsibility are delegated. Seventeen departments function under Heads of departments to whom, authority is delegated, regarding academic matters. There is operational autonomy to the departments except in matters of financial commitments. But in case of finance generated by the department, they enjoy autonomy. In the weekly meetings of the Heads, with Principal and Vice Principals, matters of special concern, financial requirements etc., are discussed and guidelines are chalked out.

6.1.8. Levels of Participative Management

St.Joseph's college has always maintained a culture which fosters participative management. The manager, who is the supreme authority, has delegated all authority to the Principal. The Governing Council is involved only at the policy making level. The draft strategic plan for the activities of the academic year is chalked out by the Principal in consultation with the Vice Principals, brought to the meetings of the Heads of departments and later to the meeting of the faculty. After modifications, the plan is finalized and implementation entrusted to committees of faculty.

At the next level, departments and the various committees coordinated by the IQAC are asked to submit detailed annual action plans compatible with the strategic plan. These are then consolidated by IQAC according to importance, relevance and feasibility. Then with the approval of the Principals' Council, it is put in black and white in the Year Plan.

Teachers are usually offered consultative status in making decisions related to curriculum, teaching-learning and assessment processes. Teachers have representation in all executive committees operating in the college, including committees for admission to management quota and recruitment of staff. Even on recruitment boards, teachers have their representation. The non-teaching staff take care of the smooth running of the administrative system, in collaboration with the

teaching staff. Their head, the superintendent, is part of all decision making bodies.

The Student Council, with the co-operation of class representatives, gives leadership to all the activities at the bottom level, under the guidance of class teachers. Tutorial and mentoring system see to the personal development and participation of each and every student in the campus.

PTWA and Alumnae are two important bodies which constantly observe, support and felicitate the activities round the year, through participation and feedback. Any event or activity beyond the fixed schedule is discussed at the above levels and the decisions promptly informed through notices, meetings or through broadcasting system.

6.2 Strategy Development and Deployment
6.2.1. Development, Deployment and Review of Stated Quality Policy

This institution is committed to provide a quality learning experience for all learners by continuously improving the quality of all aspects of its infrastructure and resources - support as well as curriculum areas - to impact learners' achievement of the highest possible standards through constant self evaluation and action planning.

1. The Curriculum: (a) To encourage continuous improvement in the quality of teaching and learning programmes, thereby making learning a lifelong enjoyable exercise (b) To develop and sustain a range of programmes which provide opportunities for progression (c) To ensure rigorous and consistent assessment procedures (d) To provide information which supports strategic planning and meets employer requirements for qualified and skilled staff and underpins achievement of entry requirements for Higher Education

2. Support Services: (a) Interviewing and counselling learners at entry and throughout their College career (b) To establish standards and monitor procedures for providing a supportive and accessible range of services to learners (c) To monitor and evaluate the standard of services responsive to the needs of employers (d) To establish and monitor service standards for the effective delivery of the College's Employer Services training programmes

3. Faculty and Staff: (a) To review regularly the performance, training and developmental needs of all Faculty and Staff through Continuing Professional Development Programmes (b) To monitor and evaluate the effectiveness of such training and development against the College's strategic goals and self assessment processes

4. Methodology: All learners are made aware of the quality standards within the College at appropriate sessions of the Induction Programme.

The statement of this policy is supported by a clear set of Quality Improvement Procedures set out by the IQAC of the college. The outcomes of the action plan will form the basis of the annual College Self Assessment Report and Quality Improvement Plan.

At the student Level, the quality of learning outcome is monitored by the personal tutors. Every personal tutor is requested to review learners' progress regularly. There should be a minimum of 3 reviews per year. Formal complaints by students will be made through the complaints/suggestion boxes in specific locations. Students will also have the opportunity for student satisfaction surveys once in a year during their programme.

Review will be supported by analysis of learner, employer and stakeholder views and perception gathered via questionnaires. Feedback on actions resulting from the review process is communicated to the faculty and staff concerned via individual meetings by the Principal.

6.2.2. Perspective Plan for Development- the Aspects Considered for Inclusion in the Plan

The institution develops a perspective plan usually for a period of five years, taking into consideration the major factors such as 1. Effective Teaching and Learning 2. Research, Consultancy and Extension 3. Academia-industry interaction 4. Student Career Progression 5. Infrastructure Development 6. Community/Nation Development

A proposal is considered for inclusion, if it corresponds to any of the above aspects, and if the management is convinced that it will benefit all the stakeholders, and there are enough financial resources to make the proposal a reality.

### 6.2.3. The Internal Organizational Structure and Decision Making Processes

The key internal organizational structure of the college is as narrated below.

The fundamental legal authority over the college is the Governing Council consisting of seven educationally qualified members belonging to the congregation that owns the college. The Governing Council gives the Principal the essential guidelines and directions in the administration of the college. The Provincial Superior (Manager) is the most powerful administrative agency of the college, but her authority is fully delegated to the Principal.   The Council meets at least twice a year and draws out plans, policies and strategies of the college.

The Principal provides overall leadership and direction to the institution and presides over its academic and administrative bureaus. She is the key representative of the college to the entire academic community and to external agencies and fosters the public image of the institution as a site of higher learning maintaining a close relationship with the affiliating University and the Government, and also forging points of common cause and agreement with the entire University community and its constituents. She is the academic, administrative and financial head of the institution and reports directly to this Governing Council.

The Principal is assisted in her day-to-day decisions, by two Councils – the first comprising the two Vice Principals and the coordinator of the Self Supporting Programmes,   and the other composed of heads of all academic departments.

ORGANIZATIONAL CHART

GOVERNING COUNCIL
(MANAGER/APPOINTING AUTHORITY)

Education Council → **PRICIPAL** ← IQAC

PRINCIPALS' COUNCIL

HODS

TEACHING STAFF ASSOCIATION

HOSTEL WARDENS

SUPERINTENDENT

LIBRARIAN

NON TEACHING STAFF ASSOCIATION

CONVENORS OF VARIOUS COMMITTEES

COMMITTEE MEMBERS

COLLEGE UNION

CLASS REPRESENTATIVES

CLUB LEADERS

DEPARTMENTAL ASSOCIATION REPRESENTATIVES

These Councils ensure that the formulated plans are executed and the goals of the institution are achieved.

The Department heads supervise instruction in individual disciplines and in this capacity lead the teaching staff in the department in ways that lead to the fulfillment of the set goals of the college. Various campus activities are carried out and monitored by the committees constituted for specific purposes and are in turn supervised by IQAC.

IQAC, the institutional agency for quality assurance and enhancement, in operation since 2004 on the campus, takes care of the quality sustenance tasks of all aspects of the functioning of the college.

The Senior Superintendent is the ministerial head of the institutional administrative wing and she reports directly to the Principal. She is also entrusted with the responsibility of smoothening the college's path to the achievement of its goals with the help of the ministerial staff in her office.

The librarian (Grade I) of the college with the assistance of Librarian Grade IV looks after the most important learning resource of the college, the library, and disseminates its intellectual stock effectively.

The college hostel is under the control of the Principal (Chief Warden) who is assisted by the three Wardens and the local administrator and is administered with student participation democratically.

A college union elected annually as per the regulations laid down in the university statutes functions effectively on the campus and ensures the participation of the whole student body in the campus activities.

6.2.4. Quality Improvement Strategies of the Institution

All quality improvement strategies of this institution are focused on the vision and mission of the institution. Women empowered, employable and globally competent is the final outcome that we envisage.

Measures in place for Quality Improvement:
- ❖ Encouragement to the staff to attend high quality external Professional Development Programmes and provide them support for continual improvement through research, consultancy etc.
- ❖ Promoting the participation of faculty in Orientation and Refresher courses, Seminars and Workshops
- ❖ Providing guidance of faculty veterans to help the new recruits with tailored support for improving their teaching skills
- ❖ Compulsory 30 hours Professional Development Training for all staff
- ❖ A variety of in-house staff development sessions that meet the needs of individuals and curriculum areas
- ❖ Support to faculty for achieving higher level relevant qualifications such as MPhil, PhD etc.
- ❖ Encourage faculty to visit other colleges and organisations to view their best practices and disseminate the practices in our institution

- ❖ Encourage faculty to participate in peer review
- ❖ Continue to embed e-learning within the curriculum so that it is blended into all curriculum areas and all courses
- ❖ Shift to student centred teaching and learning
- ❖ Support staff to develop their IT skills
- ❖ Continue to increase the number of classrooms with interactive white boards and support to use them
- ❖ Increase the use of electronic methods of storing and sharing learning materials to support flexible working and learning practices
- ❖ Put specialist language support in place to help those learners for whom English is a second language
- ❖ Provide a variety of assessment methods, to ensure that learners develop a quest for quality

Steps to monitor the strategy: Annual review and progress assessment is done by IQAC. It is envisaged that there will be a need to add to the strategy from time to time to meet the changing requirements and to ensure continued progress in the areas of Research and Development, Community engagement, Human resource development and Industry interaction.

6.2.5. Information for the Top Management and the Stakeholders, to Review the Activities of the Institution

The Principal places an annual report on all aspects of the entire working of the institution to the Management Committee. She presents this report before all the stakeholders on the Annual Day. In the General Body meeting of the PTWA, an evaluative report, future plan and prospects are also presented. Feedback from all the stakeholders are collected periodically, consolidated and analyzed and placed before the top management for future action and improvement.

6.2.6. Encouragement and Support for Involvement of the Staff

The management encourages and supports total involvement of its staff in the campus life and activities. A Staff Association functions in the college round the year, which can communicate at any time valuable ideas regarding the functioning of the college to the authorities. Association conducts monthly staff meeting, celebration of Staff day, Staff competitions and Picnic, periodic Staff family meet etc., to encourage and facilitate involvement. The class teacher system, tutorial system, mentoring etc., assumes creative involvement of faculty.

While recruiting, the management identifies the kind of people capable of total involvement and designs and implements programmes and initiatives to attract and retain such people. Providing an inspiring work environment, establishing good rapport, making periodic visits to their homes, recognition on special achievements, etc., keep them related and committed to the institution. Selection of faculty on merit basis provides a great incentive to serve the institution wholeheartedly. Installation of Best Teacher and Best Researcher Awards by the Pavanatma Educational Society encourages illustrious personnels. Efficient and dedicated faculty are retained in the institution even after retirement, which serves as a motivation for the faculty in general.

6.2.7. Resolutions made by the Management Council Last Year

- Applying for new courses - (BCom with Computer Applications and BCA) – Courses were started.
- Completion of Seminar Complex - Seminar Complex completed and seminars are being conducted in it.
- Completion of HT Installations - Completed
- To get sanction for more Research Centres - Two more research centres were sanctioned, in Commerce and English
- ICT enabled class room teaching - Smart boards, computers, LCD projectors, etc., are provided by the management.
- Installation of CCTV - installed in strategic locations

6.2.8 Provision for Autonomy

Though autonomy was recommended by the NAAC peer team during the last visit, neither the University nor the government. is granting autonomy to colleges in Kerala. Still we are constantly seeking the possibilities to start more new courses, innovative methods of teaching and assessment, global level employability enhancing programmes, twinning programmes etc.

6.2.9 Resolving Grievances and Complaints Mechanism in the Institution

The institution wants to provide the best facilities and quality education to the students and take keen interest in fulfilling the needs of the stakeholders. In case of any dissatisfaction they can directly approach the Principal, HOD or faculty members. There is a full fledged Grievance Redress Cell that looks into grievance/complaints raised by stakeholders. Grievance boxes are also kept in key areas, where anyone can deposit written grievances. Every month the committee consolidates and brings the grievances to the notice of the Principal. In most cases remedy is provided.

6.2.10 Court Case

No court case has been lodged or filed by or against this institution during the last four years.

6.2.11 Mechanism for Analyzing Student Feedback

The college has a mechanism for analyzing student feedback on the performance of the college. Each year students are given an opportunity to provide confidential feedback on various aspects of the college functioning such as the college, the course, the faculty, departments, canteen, non-teaching staff, teaching-learning-assessment, research, extension and special resources such as Labs, Library, ICT amenities and other facilities based on a standardized questionnaire provided.

The suggestions for improvement are grouped into three categories:
- Those we can change immediately
- Those that must wait until the next time the course is offered
- Those that we cannot change

In all possible cases, remedy is provided, after discussions with the concerned authorities.

6.3 Faculty Empowerment Strategies

6.3.1 Efforts made by the Institution to Enhance the Professional Development of its Teaching and Non- Teaching Staff

Our continuing professional development activities include those designed to improve individual employee's (teaching and non-teaching) attributes, knowledge, understanding and skills. This is ensured in a number of ways– providing training to faculty and staff by experts in various fields including use of ICT, collection of feedback, personal interview with the Principal, encouragement to attend refresher courses and other quality enhancement training programmes outside the campus.

6.3.2 Faculty Empowerment through Training, Retraining and Motivational Sessions

'Training, retraining and motivating' is a continuous process in this institution from the very beginning, for empowering the faculty and staff. A variety of such programmes were conducted in the past four years.

Training and Retraining Programmes:

- Orientation for new faculty -'Quality Culture of the Institution' by Prof. Savithri Lakshmanan and Team (11–13/10/ 12)
- Training on e-content Development by Dr. Babu P George, Associate Professor, Alasca University, USA (14/01/ 13)
- Invited talk on Research Methodology by Dr. Trivikraman, Professor Emeritus, Dept. of Mathematics, Kannur University (09/11/12)
- New Assessment Methods: Dr. Mohamed P P, Registrar, University of Calicut (08/10/12)
- Retraining in MS Office for office staff by G.J. Infotech, Irinjalakuda, (Oct. to Dec. 2012)
- Training in 'Use of ICT in Class Room Teaching', Mr. Salu Thomas, Director, Boon Innovations Ltd., Ernakulam (04/06/12)
- Training in e-content Development, Prof. P L Antony, Dept. of Mathematics, St. Thomas College, Thrissur (06/06/12)
- Digital Instructional Technology by Prof. Jennifer Seberry, School of Computer Science & Software Engineering, Wollongong, Australia (12/12/11)
- Talk on Choice Based Credit Semester System by Dr. M.P. Kannan, Retired Professor of Chemistry, University of Calicut (07/12/11)
- Intercollegiate Workshop on Syllabus Revision and Project Preparation for Mathematics Teachers by Dr. P T Ramachandran (08/07/11)
- 'Innovative Teaching Methods' by Prof. Joseph Konikkara, Retired Professor of Chemistry, St.Joseph's College, Irinjalakuda (13/10/12)
- Training for Office staff on Salary computation- Sixth Pay Revision, by Mr. Davis Antony M, Dept. of Statistics, Christ College, Irinjalakuda (03 – 07/05/ 10)

- Training on 'Use of Salary Software (SPARK)' for Office staff by Dr. Pankunny, D. D., at Kerala Varma College, Thrissur (05/01/10)
- Three months Training in MS Office for Office Staff by Mrs. Jisha Joy (June to August 2009)
- Learner-centered Teaching of Curriculum under semester system by Dr. Joshy C L, Syndicate Member, University of Calicut (14/07/ 2009)
- Team building and Change Management, by V A George, Rtd. Chief Engineer & CEO, Thejo Engineering Ltd., Chennai, (20/06/2008)
- Talk on Educational Management by Fr. Joy James SJ, the Provincial Superior of Jesuit Province, Kerala (12/07/2007)

Motivating the Employees:

Interactive motivational talks and seminars form a regular feature of the academic events of this institution. A few of such talks held here for the benefit of the faculty and staff, are furnished below:

- Talk on Women & Technology by Dr. Tessy Thomas of DRDO, the first ever Woman Director of a Missile Development Project, 'AGNI-5' (18/02/12)
- The inspirational address by Dr. Sandhya IPS on mainstreaming gender perspective in our educational process (10/08/11)
- Talk on 'Mind Power' by Ms Ancy George, Associate Professor & Mind Power Trainers, S D College, Kanjirappilly (13/03/11)
- Talk on Effective Teaching by Rev. Fr. Jolly Vadakken (30/07/10)
- Talk on Excellence in Teaching by Fr. V V Abraham, SDB (12&13/07/10)
- Talk on Character Formation by Rev. Dr. Vincent Alappatt, Vicar General, Diocese of Irinjalakuda (12/11/09)
- 'Teachers-Role Models', by Adv. Charlie Paul, High Court Ernakulam (01/06/09)
- Talk on 'How to Develop Positive Attitude' by Sri Girish Babu, HRD Officer, Apollo Tyres, Chalakudy (03/12/08)
- Talk on Professional Excellence by R Sreelekha IPS (31/01/08)

Such motivational talks have helped a lot in developing the professional competence of faculty and office staff.

6.3.3 Performance Appraisal System

The college maintains a self appraisal system giving weightage to multiple activities performed by faculty inside and outside the campus in various fields. The Appraisal system in this institution gives 50% weightage for student feedback. Students are asked to evaluate each and every teacher who teaches them, with the help of a printed feedback form, towards the end of each academic year. The remaining 50% weightage is distributed equally among four heads (12.5% each) namely, research activities, consultancy and extension, involvement in evaluation duty and teaching experience and qualification. Appraisal forms are

received from all the faculty members at the beginning of the academic year based on their performance in the previous year (Teachers Mirror).

6.3.4 Review of the Performance Appraisal Reports by the Management and the Major Decisions Taken

A summary of the Performance Appraisal Report is presented to the Top Management. The scores are communicated to the faculty in a personal interview. In order to encourage faculty with excellent performance, the management, - Pavanatma Educational Society- has instituted 'Teacher of the Year Award' for the Top Scorer. The topper in Research activities, Publications etc., is given 'Researcher of the Year Award'. Underachievers are advised to attend enabling courses. Suggestions include encouragements to do higher studies (MPhil or PhD)

The Management's overall review of the Teacher Performance Appraisal Reports last year was that, more thrust should be given to research work and consultancy. Increased use of ICT in class room teaching was also advocated. Accordingly they were asked to improve their performance.

6.3.5 Welfare Schemes Available for Teaching and Non Teaching Staff

This is an aided college and in that capacity its teaching staff are paid at the rates fixed by the Sixth recommendations of the UGC. But their other service conditions and privileges are at par with the state government employees. The non-teaching staff are, however, paid at the State Government Scales and their service conditions are also at par with other state government employees of equal ranks.

In addition, as employees of this college, both the teaching and non-teaching employees enjoy the following benefits too. The provision is for 100% of faculty and staff who are found eligible.

Sl. No	Welfare Schemes for Faculty & Staff
1	On- Campus single residence facility for women staff
2	Free food and accommodation for watchmen
3	Rent - free accommodation with 75% reduction in mess fee for last grade employees
4	Interest- free loans
5	Advance payment of salary for faculty and staff in case of request
6	Admission reservation to any course for children and wards of the employees
7	Fee Concession for Children of non teaching staff
8	Canteen, recreation and physical fitness facilities
9	On-campus medical consultation facility
10	Free use of college infrastructure for individual research
11	Financial help given from the management funds in case of emergency
12	Financial aid given for construction and repair of house
13	Treatment of family members

14	Education of children
15	Special scholarship for children
16	PF, ESI, Annual increment in salary

6.3.6 Measures taken by the Institution for Attracting and Retaining Eminent Faculty

The reputation earned by the institution as one of the Best in Calicut University is good enough to attract and retain eminent faculty to the institution. Appointment is done purely on merit basis, which assures quality. The institution considers that, talented people who continue to develop skills and increase their value to the institution are our most important resource. We attribute this to the peaceful and party-politics-free campus atmosphere which facilitates effective teaching and learning, quality culture, research orientation, infrastructure facilities and smooth employee-employer relation. Good connections of our faculty with other reputed institutes also have played a role in it. For example, Prof. T. Trivikraman, Head and Research Guide, CUSAT was Director of our Centre for Research in Mathematics for 6 years. Prof. Chakkappan C.D., Former Head, Department of Journalism, University of Calicut has been the Head of the Department of Communication and Journalism since 2005. Prof. K.C. Vijayakumar, Former Head & Research Guide, Department of Commerce and Management Studies, has consented to render his service to the Research Centre in Commerce.

6.4 Financial Management and Resource Mobilization

6.4.1 Mechanism to Monitor Efficient use of Financial Resources

Finance and Accounts Department, working under the supervision of the Senior Superintendent and the administrative control of the Principal and headed by a Head Accountant, handles the responsibility of implementing all tasks related to finance and accounting in accordance with the rules, regulations and financial policies framed by the respective authorities in this regard. The Finance & Accounts Department attends to all work related to accounting including treasury and bank operations and preparation of the annual draft budget of the college. Draft Budget is prepared at the end of each academic year, taking into consideration the financial requirements of each Department and the general development plans. Each Department Head has to submit the developmental projects and get sanction from the Principal before that. Departments are encouraged to apply to various funding agencies for their proposals. In other cases, expenses are taken care of by the management. The consolidated Budget is finally submitted to the Governing Council for approval. The Department follows it up to its implementation after it meets the approval of the Higher Administration. Implementation of the budget is followed up at the college and departmental levels closely in order to ensure optimal performance in carrying out the college's financial plan.

The Principal is responsible for monitoring and controlling the financial procedures that result from implementing the approved financial plans for optimal

performance. She presents before the higher administration (of the Management, the State Government and the UGC) regular periodic financial reports. In this process, she is assisted by three personnel. Accounts related to management are handled by an accountant, UGC accounts by a senior faculty and all other accounts by the Head Accountant. Accounts related to departments are handled by concerned Department heads.

Norms followed in order to make effective use of resources:

- Payments are made either in the form of cheque or D.D. except in the case of small amounts.
- Tender is called for any payment above Rs. 20,000.
- Payment is made only on production of proper bills or vouchers.
- Payments are made only if authorized by the Principal.

6.4.2 Institutional Mechanisms for Internal and External Audit

The finance and accounts operations of the college are regularly audited by the auditors deputed by the Director of Collegiate Education, the Accountant General, the Chartered Accountant appointed by the Governing Body and an Internal Audit Body authorized by the Manager.

The last audit in respect of each of the above was held on dates specified below:

Details of Government Audit

Sl. No.	Audit Authority	Date of Last Audit
1	Director of Collegiate Education (Report not received)	22/10/2011
2	Accountant General of Kerala	23/01/2010 (Report enclosed)
3	Internal Audit Group (Abraham & Jose)	17/07/2011

There has been no major audit objection as per the audit reports of the above audits. Details of Accountant General's Audit Report No. Spl.Cell (HQ) 11/1/ 11-90/66 dated 17/02/10 is produced. (Please see the copy of the original report)

6.4.3 Institutional Funding, Deficit, Management, Corpus

This being an aided institution, its main source of income is funds received from UGC for various developmental activities, which is supplemented by the management for completion of projects. Salary to staff is provided by the State Govt. and fees remitted to the University. In the case of the few self financed courses, fee fixed by the University is collected and expenses met from that.

As per the last audited Balance Sheet, the Corpus Fund of the College is Rs.68,17,811/- (For the details called for here please see the attached audited income and expenditure statement of the years 2008-09, 09-10, 10-11, & 11-12.)

6.4.4 Efforts for Securing Additional Funding & its Utilization

Other than the governmental and UGC grants, the institution has been able to secure additional funding from various agencies such as DST & FIST, NBHM,

etc., during the last five years. PTWA, Alumnae, Lion's Club and Rotary Club also contribute to the developmental needs. A total of Rs. 3,55,04,771/- has been secured as additional revenue from private agencies and Rs. 3,05,46,020/- has been spent on college development, humanitarian extension work and student welfare activities. The total funding from Central and State Government for faculty, staff and students during the post accreditation period amounts to Rs. 20,83,81,360/-(see the table attached) of which, the total funding from UGC alone amounts to Rs. **3,11,51,712/-**

Details of Funding from UGC during 2007-2013

Year	Amount In Rs.
2011-12	5988847
2010-11	8390107
2009-10	9300824
2008-09	3206761
2007-08	4265173
Grand Total	**31151712**

6.5 Internal Quality Assurance System
6.5.1. Internal Quality Assurance Cell (IQAC)

This institution has established an Internal Quality Assurance Cell (IQAC) as a post-accreditation quality sustenance measure in 2004. As quality enhancement is a continuous process, the IQAC has become a part of the institution's system for conscious, consistent and catalytic involvement in the quality sustenance and enhancement, channellising all efforts and measures of the institution towards achieving academic excellence.

- **The Institutional Policy of Quality Assurance:** Even before the establishment of IQAC, this institution had been well aware of quality sustenance and enhancement from the very beginning and was striving for the same through an Academic Excellence Cell. The college which started in the year 1964, by a team of US educated religious sisters, had the benchmarking in quality. Our intention to promote quality culture is in consonance with our stated mission.

- **Institutionalizing Quality Assurance Process:** IQAC was formally established in our institution in 2004, as an agency for quality sustenance and enhancement. IQAC directs and monitors all developmental activities in the institution regarding teaching and learning, starting of new courses, research and development, conducting seminars and workshops, capacity building sessions for empowering faculty, communication networking among departments, quality assessment and rewards through systematic feedback, appraisal system etc.

- The Governing Council of the institution has always **approved and implemented the quality enhancement recommendations IQAC has put forward** for its consideration. IQAC suggestions like construction of Seminar Complex, HT installation, substitution of electricity with solar

energy, installation of Bio-gas plant, Introduction of Digital Teaching and Learning Technology, CCTV network in the library and commissioning of INFLIBNET are instances the Management sanctioned without any objection.

- **The Present Composition of our IQAC is as follows:** IQAC consists of the following 21 members.
  - ➢ Chairperson: Head of the Institution
  - ➢ Administrative staff- 02
  - ➢ Faculty-06 (One of them will be IQAC Co-ordinator)
  - ➢ Librarian Grade I of the college
  - ➢ Management Representatives- 02
  - ➢ Student representatives nominated by the Head of the Institution-02
  - ➢ Alumni representatives-02
  - ➢ Members external to the institution- 1. Chairperson of the local self government 2. MD of local industry 3. Other Stakeholder and Community representatives-03
- **The External Members**

The external members in the IQAC, MLA Adv. Thomas Unniyadan, Sri M.C. Paul, MD of Solvent extraction Ltd, Mr. K P John and M P Jackson, former Municipal Chairpersons, Mr. E P Janardhanan, member PTWA, Mrs. Mary Vithayathil, former faculty have rendered sincere and significant contributions, forwarded valuable suggestions and supported all developmental activities.

- **Student Participation in the Functioning of the IQAC:** To ensure free and effective say of the student community in the affairs of the institution, two student nominee representatives are included in the IQAC. The representation formally acknowledges for the first time their role as key stakeholders in the quality of education. Each class has an IQAC representative who attends periodic meetings held by IQAC and prepares the students for collaborating with the development proposals put forward by IQAC.
- **Role of Alumnae in the Functioning of the IQAC:** Alumnae also have evinced considerable interest in the functioning of the IQAC. They contribute to the effectiveness of the IQAC by their feedback on the way their campus experience helps them in their post-college life. The employer feedback collected on the performance of alumnae sheds light on the strengths and weaknesses of the education provided by our institution from the point of view of employability.
- **Communication of IQAC with Different Constituents of IQAC:** Every department has an IQAC contact person, who acts as a liaison between the IQAC and the departments. The on-line communication facility between IQAC and departments makes connectivity easy and fast. IQAC also conducts periodic meetings of the Heads of all Departments where information dissemination is done.

6.5.2 Institutional Integrated Framework for Internal Quality Assurance

The institution has an integrated framework for Quality Assurance of both academic and administrative activities. It is based on a Plan-Implement-Review-Improve (PIRI) model and consists of the following linked elements:

- A planning framework (All academic and administrative activities are planned for a Five Year Period -Strategic Plan; and an Operative Plan for the academic year)
- A budget model (Preparation of a proper budget that supports implementation of the college's strategic priorities)
- Benchmarking (The activities of the institution are compared with that of similar Arts and Science Women's colleges and norms fixed)
- Implementation of the Plan (Activities are implemented in both the academic and administrative wings according to the fixed plan, budget and benchmarking)
- Faculty and Administrative Division Reviews (Monthly reviews and review at the end of the academic year are made)
- Planning, evaluation and review of programmes, courses and teaching (Monthly and annual reviews)
- Stakeholder surveying (Made at the end of the academic year with the help of feedback questionnaires)
- Annual performance reviews of the college and preparation of AQAR (AQAR reveals the clear picture of the plans- implementation proportion and deviations if any)
- Preparation of SSR and National accreditation (By the end of five years, the cumulative review result is generated in the form of SSR, which clearly points out the results of academic and administrative performance)

6.5.3 Quality Assurance Procedures and Training to Staff

We realize the need to develop our staff in order to fulfill our priorities and our mission of qualitative accountability to the stakeholders. In a struggle to materialize what we have committed, discussions, talks and special sessions on the HEI quality requirements are held quite often in the college to make quality a live discussion point in whatever the staff undertakes. Seminars and workshops held on quality culture and quality imperatives are attended by all the staff and a select few are sponsored to attend similar events held in other institutions on related subjects. The majority of training is work based. We also provide thorough orientation and on-going department-wise training to staff. Annual training and orientation for all members of the staff is a regular feature. The sessions are also open to relevant quality assurance staff from other colleges with a special emphasis on those colleges scheduled to undergo the quality audit in the next academic year (Details of training are given in 6.3.2).

6.5.4 Academic Audit of the Institution

Academic audit involves comparing the academic performance of each department and institution against set targets. This is done on a daily, monthly and

annual basis. At the end of the academic year, IQAC visits every department and inspects all files and documents. A SWOT analysis of each department is also conducted. In interface meeting with the departments, IQAC representatives review each department and offer suggestions for improvement.

At the beginning of each semester, IQAC provides a format for syllabus completion, in which faculty members have to specify the topics to be covered each month. Department meetings are conducted to allot classes and subjects to each teacher and to review the completion of syllabus, The Head verifies whether the plan is implemented and then countersigns the format. In case of a vast syllabus, internal arrangement will be made for special classes. Conduct of seminars, projects, ICT enabled teaching, Internal Assessment etc., are also verified by the head. Work performed each hour is recorded in 'Daily Mirror' and a copy submitted to the IQAC.

6.5.5 Internal Quality Assurance Mechanisms vs. Requirements of External Quality Assurance Agencies

The college seriously prepares to reach the quality standards pre-set by the NAAC and our IQAC works fulltime planning, implementing, reviewing and improving the performance of the institution. Its yearly performance report submitted to the NAAC - AQAR - provides the institution the opportunity to take stock of its strengths, weaknesses, opportunities and threats every year, and to rectify shortfalls detected at the right time. The functioning of the college remains always geared to the threshold quality criteria set by the NAAC, and this ensures easy alignment at every step.

Outcomes:
➢ Improved Quality of teaching and learning
➢ Increased use of ICT in classrooms
➢ Increase in Projects, National/International Seminars, Paper Publications and Presentations
➢ Faculty Encouraged and trained for e-content development, use of virtual lab and other innovative methods of teaching and learning
➢ Establishment of Four Research Centres and increase in research and extension activities
➢ Augmentation of infrastructure which facilitate all the above functions

6.5.6 Institutional Mechanisms to Review the Teaching Learning Process

This institution has in place a Teaching Learning Process Review Mechanism undertaken by Teaching Learning Review Committee (TLRC).

Structure and Methodology of Operation:

TLRC consists of two Vice Principals and three senior faculty members (one each from Arts, Science and Commerce sections), IQAC Co-ordinator, an Expert from outside and a student representative from the department concerned. The review process is structured with focus on the requirements of the student and industry, research and extension. Feedback is collected by the TLRC formally through collection of feedback and informally through observing the teaching learning in

the class rooms. The result is communicated both to the Principal as well as the faculty concerned and this provides for continuous improvement. The system is heavily reliant on the performance indicators provided by the NAAC. Prospects for improvement in teaching and learning regarding each and every department, requirement for facility augmentation, additional manpower requirement etc., are well studied by the team. The observations of the review committee and suggestions for improvement and budget requirements are placed before the Governing Body at the end of the academic year.

Outcomes of review are as follows:

➢ Commencement of new courses and feasibility study: Two new courses at UG level and MSc (Cyber Security) started
➢ Bridge Courses: To fill the gap between Plus Two and UG, Bridge course conducted for First Year UG students
➢ Add- On Courses: To provide vocational component and to supplement the curriculum, three Add on courses and many certificate courses conducted
➢ ICT and e-content development: 60% of teaching is done using ICT
➢ Feedback: On the basis of feedback collected and processed, improvement made in mode and content of teaching
➢ Assessment: Choice based Semester System, Internal assessment etc., introduced in UG as per earlier suggestions and as directed by the University
➢ Training courses provided to faculty, based on feedbacks received from stakeholders

6.5.7 Communication of Quality Assurance Policies to stakeholders

The communication regarding the quality assurance policies is carried out through the Heads of Departments, IQAC contact persons and class teachers and IQAC class representatives. Meetings of stakeholders, discussions, talks, seminars, leaflets, alumnae newsletter, annual report, college magazine, handbook etc., are the other modes of communication. But the best and the most accessed medium is the college website. The college IQAC is also bringing out a monthly newsletter to enhance communication networks.

Other Relevant Information

St.Joseph's College had the rare opportunity of having a management with a unique vision. Even before the inception of the College in 1964, the then Superior General of the congregation, sent a team of religious sisters to be educated in various reputed Universities in USA in order to equip them to be the pioneers of this institution providing high quality education. The three storied college main building which can withstand the test of time is monumental of their foresight. Delegation of authority to Principal is almost 100%.

Criterion VII
Innovations and Best Practices

The institution in its practices has always been environment friendly and during the last five years, the campus has been highly sensitive towards issues like climate change and environmental degeneration. Its deep-seated concern for this sad state of affairs is manifested in the constructive contribution to the conservation efforts of the country through its substantial reliance on solar power, rain-water harvesting and carbon neutral policies. It is avowedly committed to promote an ambience of creativity and is obsessively concerned with quality achieved through innovation.

7.1 Environment Consciousness

St.Joseph's College is situated in the heart of Irinjalakuda, a bustling town in Kerala. A tranquil world in itself, our campus stands unique with its lush green expanse, paved pathways, colorful plants, gigantic trees, gentle breeze and a serene, soothing environment. Our strategic plans for development have always been driven by a love of nature and sustainability of important resources like energy and water as well as by adopting practices such as waste reduction, recycling and energy conservation.

7.1.1 Conduct of Green Audit by the Institution.

The institution is very conscious of its responsibilities to the environment and conducts a Green Audit of its campus and facilities. The institution maintains a checklist of the following in connection with Green Audit:
- Facility information such as number of users and functions
- Feedback mechanism from facility users
- Collection service record for waste materials
- Consumption of electricity and Solar energy in the campus
- Usage of the Rain Water Harvesting System
- Eco friendly practices
- Green Campaigns
- Integration of sustainability principles and practices into curriculum through awareness Programmes and Environmental Studies

7.1.2 Initiatives taken by the College to make the Campus Eco-Friendly:
   a) **Energy Conservation:**
      The College is fast switching over to the use of alternative energy resources to minimize electricity consumption.
      Solar lamps have been installed in the hostel and college campus. Fifty percentage energy consumed is generated from this.
Existing energy consuming tube lights and fans are replaced with energy saving tubes(250), CFL(345), and fans(91), Sodium Lamp(2), Air Cooler(2),Solar Light(13) and Metal Hileed(11). Energy consumption in the hostel is closely monitored by turning off power during day time.

b) **Use of Renewable Energy:** Two biogas plants are installed and biogas is used for cooking purposes in the hostel and staff quarters.

c) **Water Harvesting:** To minimize water shortage, an elaborate Rainwater Harvesting System has been set up. The water thus collected and conserved is put to maximum use and utilized for daily routine purposes (except for drinking).

d) **Check Dam Construction:**
- NSS volunteers have been active participants in a voluntary check dam construction.
- Under the auspices of the local Panchayath, the students have also participated in the reconstruction of the Canoli Canal covering the areas of Perinjanam, Mathilakam and Munupeedika and also the nearby Shanmugham Canal (2006-2007).

e) **Efforts for Carbon neutrality:**
- Care is taken to restrict vehicle entry into the campus and specific parking area is allotted for faculty and students.
- Awareness programmes are conducted on special days by various departments.

f) **Plantation/Greening Drives:**
- We started "Greening" initiatives beyond the boundaries of our campus as early as 2005, when we planted 2500 saplings on the Munackal beach, as part of greening drive initiated by the Department of Forests.
- Trees were planted by students along roadsides and on both sides of the road in front of the college.
- There is active participation in the Save Energy campaign and the 'Haritha Keralam' project of Kerala Goverment.
- The institution has a Nature Club that functions actively in making the campus green and a manuscript called 'Haritha' is released annually.
- The Department of English distributed 1500 saplings to students and the local community as part of the Green Earth Project (2011). The Botany Department distributed saplings to students' houses.
- Our campus is a totally de-plasticized zone. Use of Plastic bags, cups and plates are restricted in the campus and the NSS volunteers make it a point to pick and clean every bit of plastic waste from the campus.
- The Department of Social Work actively participates in green campaigns and has taken the initiative to teach students how to make paper bags and files.
- The Discipline Committee and its student leaders ensure that the class rooms and campus are kept clean and plastic free.
- Special drainages are provided to dispose of chemical waste from the labs.
- Priority is given to the use of organic manure on the campus.
- One of the healthy practices of the institution is **'Green Campus- Clean Campus'** initiative. The entire campus is divided into different zones and entrusted to various departments under the supervision of CSS

committee. Diagram showing the allotment of spaces under the programme is given below.

DEPARTMENTAL WORK ALOTMENT FOR THE YEAR 2010-11

St. Joseph's College Road
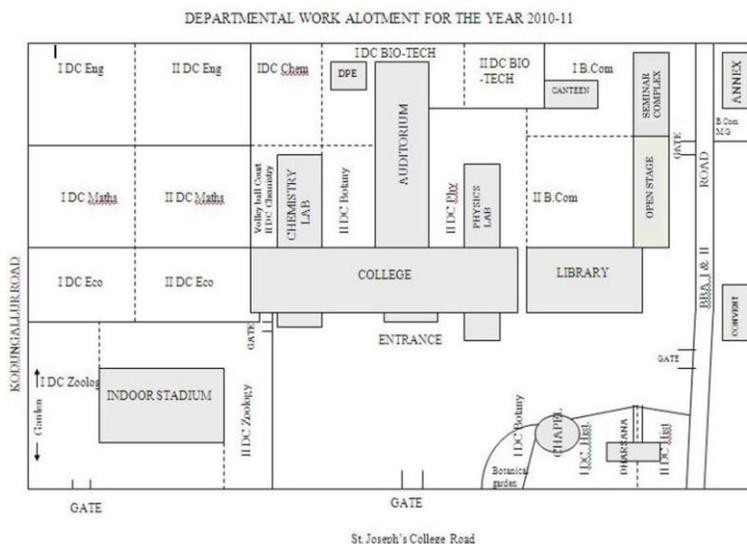
g) **Hazardous Waste Management and e-Waste Management**:
- This institution has a desirable acreage of land and this enables us to dispose the waste materials without much harm to the nearby people.
- e-waste is disposed through outside agencies.
- Students were conscientised on the necessity of effective waste management through invited talks and seminars organized by the departments of Zoology, Biotechnology and Botany.
- Various environment related activities, seminars, invited talks, and programmes were initiated by NSS as well as all the departments of the college.

7.2 Innovations

Though strained by the limited academic freedom of an affiliated institution, this college has introduced during the last four years a spectrum of transformative, innovative options, to respond to the multiple complex needs of the contemporary community of its stake holders:

7.2.1 Innovations that Created a Positive Impact on the Functioning of the College

- **Innovation in Curriculum Design:** Seminar and assignment component as mandatory requirement for every programme, Compulsory regular inbuilt component on Ethics, Value Education and Social Responsibility offered, Sixth hour introduced into the college time table to promote soft skill development in students

- **Learner Centered Teaching:** A blended mode of teaching introduced with a shift in the role of teachers from lecturers to facilitators

- **Shift from content to competency:** Every programme offered having an assignment component and a project module underscoring teamwork

- **Interdisciplinary Approach:** Interdisciplinary programmes including Add on courses like Communicative English, Gemology, Yoga and Health management and MSc in Cyber Security offered
- **Innovative Instructional Methods:** Experiential learning (learning by doing), inquiry and discovery, problem-based learning, collaborative and cooperative learning in groups encouraged
- **E-learning Applications:** ICT enabled class rooms, INFLIBNET N-List, virtual lab facilities etc., for facilitating e-learning
- **Innovative techniques in Assessment:** Surprise tests, online tests, open book test, case study, paper presentation, power point presentation etc. conducted for assessment -Poster and Collage, assignments, quiz, debate and group discussion employed in assessment
- **Inclusiveness and Diversity**: Equal Opportunity Centre, campus discussions, special sessions, film productions etc., promoting inclusiveness and diversity
- **Innovative to be Coherent and Integrated:** 'Talent Seeking' programme, Orientation Programmes, Bridge Courses, Family Life Guidance courses to help students integrate the disparate elements of their college experiences
- **Innovation in Infrastructural Planning:** A seminar complex with Smart A/C seminar halls, computer lab, digital classrooms, separate hostel building for researchers, HT installation and CCTV added to infrasturucture
- **Innovative 'Higher Focus Course':** A special course of 275 hours duration of a spectrum of training programmes – Research oriented sessions, Computer training, Personality development, Spoken English, Self defense (Judo/Karate), Yoga and Value oriented spirituality sessions, Driving and Tailoring
- **Innovative to be Socially Responsible:** CSS, NSS, NCC, CASP and all departments undertaking philanthropic activities (Outreach programmes, visits to Orphanages, Jails, Homes for the aged and destitute etc.)

Other innovations that impacted the functioning of the college

- Daily 'Principal's Council' meeting to take operational decisions and to chalk out a blue print of issues to be discussed in the Academic council of Department Heads
- Monthly faculty meetings redesigned as Evaluation and Planning Meetings for regular and systematic evaluation and planning for the month ahead
- IQAC's role made prominent by upgrading its functional status as the facilitator of all developmental initiatives in the institution
- 'VISTAS', an ISSN publication launched

Innovative Practices of Various Departments

In addition to the above, various innovative practices have been adopted by all the departments which are explained in the evaluative reports.

7.3 Best Practices:

Even though the college has quite a number of healthy practices, two of them, '**Green Campus – Clean Campus'** and '**Faculty @ Students' Homes'** deserve special mention. There is a growing need for educational institutions to become more accountable to the needs of the students, the society and the environment. Taking this responsibility into consideration, the institution has given special emphasis for these two Best Practices. These, in tandem with the Innovations mentioned above, have contributed, in a large measure, to the achievement of the institutional objectives as well as to the quality improvement of the activities of the college.

Best Practice I

1. **Title of the Practice:** '**Green Campus – Clean Campus'**
2. **Goal:**
   - To train students to put knowledge acquired in the class room to practical application (This practice aims to enable students to imbibe higher research culture and '**lab to land**' practice whereby they can apply what they have learned to practices that can benefit the society and environment.)
   - To train students to become protectors of Nature and to make a difference to the endangered Planet Earth
   - To promote awareness on environmental issues
   - To spread the message of greening and cleanliness

3. **The Context:**
   - It is a topic of hot debate in the modern world that the Earth is in desperate need for caretakers. Global Warming, Greenhouse gases, Ozone layer depletion, Ecosystem, Environmental Studies, Earth Day etc., are commonplace terms now.
   - Trees and plants help create the air we breathe and help keep earth at the right temperature for life. Trees can help prevent Global Warming.
   - Awareness programmes and seminars on the protection of the environment create in students a research orientation on environmental issues. This knowledge is put to practical application through the Green Campus - Clean Campus Practice.
   - The institution is highly conscious of its environmental responsibility. The Green Campus - Clean Campus Practice orients the student community about their responsibility to the environment and makes them active participants in greening drives.

4. **The Practice:**
   o A research culture mode is integrated into the practice of the curriculum through frequent invited talks, workshops and seminars. Experts from

Government organizations and the fields of Geology, Environmental Studies and Life Sciences are invited for lectures and interactions with the students. There are a number of projects undertaken by faculty and students on ecological concerns in addition to a number of publications.

- Faculty engaged in UGC Minor Projects:
  - 'A Study on the Faunal Diversity, Ecological Significance and Conservation Strategies of Sacred Groves of Thrissur District', Principal Investigator- Dr. Sr. Anis K V, Department of Zoology
  - 'Ecological Degeneration of Water Ways and Water Sources, Shanmugham Canal-A Case Study- Problem & Solution', Principal Investigator Dr. Sr. Rose Anto, Department of Hindi
- UG Projects undertaken by Life Science students give priority to environmental issues.
- Every effort is taken to keep the campus green and clean. The institution understands the need to preserve Earth.
- Trees have been planted both within the campus and outside. Plants and shrubs, of the flowering, vegetable and medicinal variety, are visible in the campus.
- Saplings have been distributed to the students and nearby houses, in collaboration with the Departments of Forests and Agriculture (Green Earth Project 2011 of the English department).
- Students are encouraged to be active members of the Nature Club.
- The various departments of the Institution have been allotted specific spaces on the campus to maintain greenness and cleanliness. (Diagram of the spaces allotted is attached).
- Care is taken to keep the campus, pollution and plastic free.
- There is restricted vehicle entry during working hours and a separate parking lot.
- There are dustbins in strategic places with a system of effective waste disposal.
- Students are encouraged to keep their classrooms and common spaces clean. There is a Cleaning Day for the campus spearheaded by the NSS and CSS units and a special prize instituted for the 'B**est Class Room'**.

5. **Evidence of Success:**
   - The evidence of the success of the practice is the green and clean campus itself.
   - The giant trees near Arcadia and the basket ball court, the manicured lawns and hedges, the flowers, vegetables, botanical and medicinal gardens, the pollution free campus and the trees planted on either side of the college road are all proud testimonials to how the ' green' mission envisaged by the Founders of the Institution continues to be preserved even today.

6. **Problems Encountered and Resources Required:**
   o Availability of time is the main constraint in the implementation of the practice.
   o The tight schedule of the semester system provides very little spare time. Students make use of weekends and special holidays.
   o There is also the need for more garden and cleaning equipment.
   o Additional spaces can also be allotted in the campus for greening activities.

7. **Notes:**
   • The Green Campus –Clean Campus Practice is a healthy practice that all institutions can adopt. It encourages in students a love of nature and makes them active protectors of the earth.
   • Specific spaces should be allotted for greening.
   • A feedback mechanism on the practice is mandatory to ensure positive results.

Best Practice II

1. **Title of the Practice: Faculty @ Students' Homes**
2. **Goal:**
   • To Effect holistic development of students
   • To Facilitate closer bonds between faculty, students and their families
   • To Prepare young women to be architects of ideal families
   • To Contribute to the building up of a good Society/Nation

3. **Context:**

   • St.Joseph's College, Irinjalakuda is a college for women managed by St.Joseph's Educational Society of the Congregation of the Holy Family. The charism of the Congregation is Family Apostolate.
   • The Vision and Mission statements of the Institution stress on the importance of creating ideal families through the empowerment of young women.
   • The practice 'Faculty @ Student's Homes' is based on the concept that ideal families will provide for a happy nation.
   • The various socio, economic and cultural contexts that the students belong to shape their academic life and progress. Many ailments that afflict society today, is the result of broken families. Family problems adversely affect the student's performance and scheme of life.
   • Many students are helpless victims of their vicious domestic atmosphere. A drunken father, a mentally deranged mother, an ailing parent, family problems, financial constraints and health problems can shatter the hopes and aspirations of the students. It

becomes impossible for them to concentrate on their studies in such an atmosphere.

- The family background of the student plays an important role in the academic performance of the student.
- House visits enable the teacher to gauge the students by understanding their home circles. The teacher can work miracles by changing the entire situation for the student by his/her intervention.
- This practice gives importance to the role of the teacher as mentor and counsellor, facilitates closer bonds between faculty, students and their families and positively affects the academic as well as the overall performance of the student.

4**. The Practice:**
- Teachers are encouraged to visit all their students at their homes at least once in the time span of their academic studies in the college (UG- 3 years, PG-2 years). About one-third of the houses are visited per year by the faculty.
- Besides this ongoing practice, the Principal, Vice Principals and IQAC coordinator visit the houses of almost all faculty and staff on the rolls.
- House visits enable the teacher to assess the student individually and provide necessary remedial action be it financial assistance or professional guidance.
- There are two trained counselors at the Darsana Counseling Centre to which the students and their family members are directed if it is found that they need professional assistance.
- Houses have been built for four students and two non-teaching staff by the NSS units and the institution.
- Free lunch coupons are provided to needy students based on information provided by the class teacher.
- Financial assistance is provided to meet the expenses for the medical treatment of student/parent, purchase of study books, tour programmes etc.

5**. Evidence of Success:**
- Feedback on this healthy practice is very positive both from the students and their parents.
- There is marked progress in the overall performance of the students visited at home. The students are motivated to perform better in their studies and also develop interpersonal skills.
- Parents feel at home with the teachers who have visited them in their home ground. They are able to communicate more freely on the problems related to their children.
- There is considerable reduction in the dropout and failure rates.
- Fathers who are drug addicts and alcoholics have been rehabilitated through professional counselling at Darsana, given membership in

'Alcoholic Anonymous' and treatment at De-Addiction Centres with which the college has tie ups.

- The present day academic syllabus under the semester system has created a lot of psychological stress in some students. Such students are identified and directed to the counseling centre.
- The strong bond that the Alumnae maintain with their alma mater and the mentors is a strong evidence of the success of the practice.

6**. Problems Encountered and Resources Required:**

- The tight schedule of the semester system leaves little time for house visits.
- Teachers have to make use of spare time and holidays to complete this mission.
- Conveyance to far off and remote places poses problems at times.
- There is also difficulty encountered in visiting the homes of the hostellers and children with both parents working.
- Travelling expenses is another issue, which is at present sponsored mainly by the management.

7. **Notes:**

- The Practice **Faculty @ Students' Homes** is a healthy practice that all institutions can adopt. It forges a closer relationship between the teacher and student. The teacher now steps beyond the boundaries of the classroom and staffroom and becomes part of the student's family.
    - Academic performance is improved as a result of closer ties between the student and the teacher.
    - A feedback mechanism on the practice, from students, parents and teachers, is mandatory to ensure positive results.

8. Contact details:

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Name of the Institution: St.Joseph's College
City: Irinjalakuda
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Accredited Status: B++
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POST-ACCREDITATION INITIATIVES

Quality sustenance and enhancement were the two major objectives of the Institution and the IQAC during the post accreditation period, 2007-2012. After creating an academic environment for promotion of quality and accountability, the IQAC has been evolving novel avenues to take the college nearer to its goals and objectives, focusing on the core values identified by NAAC. The institution has directed its activities in such a way as to contribute to national development, foster global competence and inculcate a strong value system. In its quest for excellence, the teaching learning system was modified promoting the use of ICT in classroom teaching, giving training to faculty in e-content development and augmenting the infra-structure to support the same. Strong initiatives were taken to establish a research culture in the institution, to promote interdisciplinary learning and to make the campus eco-friendly. Steps were taken to realize the social responsibility of the institution and to fulfill the same through collective efforts of the college community. All the functions were centered on value added learning processes leading to empowerment of young women enrolled in the institution.

New Programmes Started

Two UG programmes - BCA and BCom with Computer Applications were sanctioned as affiliated self financed programmes, taking into consideration the employability and demand factors. The departments of Chemistry, Commerce and English were raised to the status of approved research centres and they play an important role in fostering a research atmosphere in the institution along with the previously functioning research centre in Mathematics. During the academic year 2012-13, applications have been submitted to the University of Calicut for sanctioning of new programmes-UG courses in BSc Psychology and BCJ, and PG Courses in Hindi, Malayalam and Economics, taking into consideration the regional and national level demand and employability. PG Diploma in Cryptography was started as a UGC Innovative Programme in Emerging Areas Scheme; the course was sanctioned in the XI Plan with a grant of Rs. 55 lakhs. On request from stakeholders, this course was converted to a PG programme in Cyber Security.

As per the recommendation of the peer team, a Centre for Performing Arts was started to impart training to talented students in fine arts items. Students represent the institution in Regional/State/National programmes conducted by GOs/NGOs and have meritorious achievements in Zonal/University level competitions. Several members of our alumni are National level performers/artists.

The College, conscious of its responsibilities to the environment, conducts a Green Audit of its campus and facilities. One of the healthy practices of the

institution is 'Green Campus-Clean Campus'. Initiatives were taken by the college to make the campus eco-friendly, together with singular efforts for energy conservation, carbon neutrality, plantation/ greening drives, effective waste management including e-waste management and plastic eradication. Besides, various environment related activities, initiatives, seminars, projects and invited talks were organized by the departments.

Employability Enhancement Initiatives

To add employability and skill development components even to the conventional courses, the college offers 36 enrichment/vocational certificate courses. This includes three UGC supported Add-on courses of one year duration and 20 vocational certificate courses by various departments. An extra hour is added to the time schedule for the smooth conduct of these courses.

Industry-academia interface was promoted to increase the employability of students as well as to link theoretical knowledge with the real world situation. Exposure to industrial organizations through industrial visits, invited talks by business experts, interaction with successful entrepreneurs, exhibitions by women entrepreneurs, special sessions by Kerala State District Industrial Centre, training programmes etc., are arranged. Indian Industries Association representatives are consulted for industry involvement in curriculum design. Steps are also taken to have collaborative research with R&D sections of industries and to improve industry related consultancy, project, field work etc. Entrepreneurial Development Club (ED Club) sponsored by the Directorate of Industries, Thiruvananthapuram, conducts various programmes for Entrepreneur skill development. Students of Social Work were trained by experts of Kudumbasree Mission of Kerala State in Thrissur district.

The activities of HRD/Career Guidance Cell are intensified for the purpose of student support, training and progression. Placement drives were conducted in the campus and students were encouraged to participate in such programmes held by other organizations as well.

Regular coaching classes for job oriented competitive examinations such as CSIR/UGC-NET/JRF/SET/Civil Service Examinations, Bank Clerical and PO Examinations are conducted as shown in the table below.

HRD Training and Coaching Programmes

Sl. No	Examination	Number of Students		
		Trained	Appeared	Qualified
1.	UGC CSIR/NET	100	65	44
2.	UGC NET	69	57	36
3.	Civil Services	14	0	0
4.	State Services	202	166	130

5.	Banks/Central Government	101	73	50
6.	GATE	12	09	05
7.	Progression Tests: National Central Universities PG Admission Test 2012 (English)	03	03	03
8.	SET	89	44	25

The atmosphere of teaching, learning and research induces progression to higher studies. Majority of students of this college opt for teaching in higher educational institutions and schools, banks, insurance companies and IT field. 55% of UG students progress to PG programmes.

Hundred per cent students from departments like Journalism and Mass Communication and Social Work were directly absorbed by employers during the last four years. Our students are placed with TV Channels and software companies like Infosys, Wipro and SS Solution.

Equal Opportunity Centre with UGC funding functions in the campus to provide employability enhancement programmes for the underprivileged students.

The institution has received funds from industry/other beneficiary agencies for development of research facility. A few are cited below.

Funding Agency	Department	Purpose	Amount
DST	Mathematics and Chemistry	Research Infrastructure Development	28.5 lakhs
Wipro	Mathematics	Conduct of International Workshops	1.9 lakh
DST	Mathematics	Conduct of International Workshop	75, 000
Indian Trade Foundation	Commerce	Conduct of National Seminar	15,000
Lions Club Irinjalakuda	College	Bio Gas Plant	30,000
K.S.E Ltd.	College	For education purposes	1,00,000
Subramania Engineering College, Palani & Veenamol Transports	College	Creation of Docufiction, on the History of the College	1,00,000

Initiatives in Curriculum Design

The curricula of UGC supported innovative research programme PG Diploma in Cryptography and MSc in Cyber Security, Add-On and Enrichment/ Certificate Courses are framed and designed by our faculty. The college has contributed to the designing of the Value Education Curriculum of Calicut University by forwarding the syllabus and study materials used in the college, as a source of reference.

Members of our faculty, nominated by the University to its curriculum framing committees, have rendered significant service in making the curriculum industry relevant, suggesting incorporation of components appropriate for the purpose.

Value-orientation

Supplementing the University curriculum with value lessons, a course was introduced to be followed by every undergraduate student on our campus for three years of their study with a well defined curriculum, examination and proficiency prizes for adequate motivation. The Final Year students are provided Family Life Guidance programme every year.

Quality Enhancement Initiatives

- ➢ The major thrust of IQAC activities during the period was training and orientation to adapt teachers to the new ICT supported learner-centered interactive instruction. Twenty nine qualified persons were appointed as permanent faculty in various departments during the post accreditation period and quality training was imparted to them. Participation in Orientation courses and Refresher courses organized by Academic Staff College, was encouraged.
- ➢ Efforts were taken to improve quality in teaching and learning by providing state of the art facilities and equipment in class rooms and seminar halls like computers, smart boards, LCD projectors etc. Training and encouragement is given to faculty for use of ICT in curriculum delivery and e-content development. Virtual lab facility is also arranged by registering with other Universities and organizations.
- ➢ Continuous professional development schemes such as FIP for completion of MPhil, PhD studies were sanctioned. 11 had availed FIP for completion of PhD during this period. A total of 25 faculty undertook full time/part time PhD work and 13 were awarded degree. Presently 30 out of 64 permanent faculty are PhD holders, and 22 others are on the way to completing their PhD.
- ➢ IQAC has prepared 'Teacher's Mirror', a performance self appraisal form for the faculty to be submitted at the end of every academic year. This is considered for evaluation of each faculty for the 'Best Teacher' Award,

and 'Best Researcher' Award in Humanities and Science, instituted by Pavanatma Educational Society. 18 faculty received these awards during this period. Peer review of teaching is also arranged.

➢ Post Entrance Test (PET), a mechanism to assess the skill and knowledge of the students at the entrance/admission stage after an immersion module (bridge course), is conducted every year. SC/ST, OBC, minority and economically backward students are given remedial coaching after class hours. Specific programmes are arranged for advanced/slow learners by the Academic Excellence Committee.

➢ Responsibility of implementing, monitoring and reviewing the student centered teaching and learning plan is vested in the Academic Excellence and TLRC Committee with the IQAC support. Innovative Student centered learning/ teaching methods are adopted to develop skills like interactive learning, collaborative learning and independent learning.

➢ The college library is subscriber to INFLIBNET N-LIST which makes available 75,000 e-books and 3,000 e-journals in full text format to the faculty, researchers and students.

➢ The innovative teaching methods employed in this institution utilize ICT equipped class rooms and smart A/C seminar halls, and facilities like well-equipped Media Lab for e-content preparation, instructional software, language Lab and virtual Lab.

➢ Workshops, seminars, talks, poster exhibitions, street plays, films and multi-media campaigns are regularly held by the organizations like Women Development Cell, NCC, NSS, CSS, AICUF and all departments especially Social Work for mass sensitization on issues such as gender, inclusion and environment. To make the campus eco-friendly solar lamps, biogas plant and plantation programmes were conducted.

➢ Effective tutorial/mentoring of students is undertaken by the faculty.

➢ Faculty visit the houses of students under their mentorship, help them and provide facilities for improvement. Financially weak students are given help from the PTWA Fund or granted scholarship.

➢ The Quality of Teaching- Learning is monitored and evaluated through Internal Academic Audit by the IQAC and corroborated by the external assessment process of the University examinations.

➢ Formative and summative evaluation approaches are adopted, with monitoring and communication of progress of students as the most measurable feedback for the teachers on the effectiveness of the teaching-learning–evaluation process in practice in the institution.

➢ A Higher Focus Course (HFC) is designed, to provide specialized training in Research aptitude, Communication and Computing skills, Social and

ethical values of high standards, Team-work, Self-motivation and Commitment and dedication to achieving life goals.

Research, Consultancy and Extension

➢ Improvement of quality of research was focused on, during the post accreditation period. In this initiative, the IQAC collaborated with all the departments in organizing discipline specific and interdisciplinary seminars of various dimensions, mobilizing resources and expertise for the purpose.

➢ 23 research oriented workshops/seminars were organised for the faculty, PG and research students of various departments. Eighteen National/International workshops/seminars were conducted for interaction of faculty, students and research scholars with experts/industry persons, resulting in research/society/community oriented projects.

➢ The Research Centre of Mathematics produced two PhDs. One scholar is awaiting open defence of PhD. The centre has two research guides and nine research scholars, with one more faculty awaiting guideship. The centre for Commerce has started with two research guides and ten research scholars, who are in the registration process. Chemistry has two guides and three research scholars. The centre for research in English is in the initial stage. Five faculty have research guideship in other Universities with eight research scholars.

➢ Consultancy Assistance is given to the faculty by GRACE, the fully functional R&D centre of the college, for applying for Major and Minor Projects. Thirty four funded minor projects were undertaken by the faculty during the period, of which 22 are successfully completed.

➢ A total of 120 paper presentations were made in National/International Workshops/Seminars/Conferences supported by professional agencies.

➢ There were 160 research publications in refereed journals of which 97 appeared in International database such as Scopus, International Social Sciences Directory, EBSCO host, ZbMath, Pubmed, Science Direct, AMS and ACM Digital Library.

➢ A total of 235 paper publications in National/International journals, eight book publications and 12 proceedings of national/ international seminars were made during this period.

➢ Nine faculty have life membership in international organizations.

- ➢ Three faculty are reviewers of International databases, American Mathematical Society, Zentrablatt Math, Germany, Pub Med.
- ➢ The annual interdisciplinary research journal 'RAYS' comprising the research articles by the faculty of our institution as well as other Higher Education Institutions in multidisciplinary academic field, has been presently raised to International status with ISSN No. 2319-5770 under the name 'VISTAS', in the academic year 2011-12.
- ➢ Faculty members are involved in consultancy and extension activities. Some are offering free service, while the funds received by others are contributed to the department. Income generated by faculty as resource persons, subject experts, project evaluators, question paper setters, examiners of other universities/ institutions etc., has been utilised for community oriented extension programmes as well as for supporting economically backward and disabled students and their families.

As per the peer team recommendations/ suggestions that the institution may tap resources from various funding agencies for minor, major projects, the following initiatives were undertaken:

- ▪ 34 UGC funded minor projects have been undertaken by faculty during this period of which 22 were successfully completed. Two UGC funded major projects were short listed and interface meeting completed. During this period 114 International/National/State/Regional seminars were conducted by various departments.
- ▪ The Institution with the formal sanction of HRD conducted two International events organized by department of Mathematics-International Seminar on Recent Trends in Topology (March 11-13, 2009) and International Workshop on Cyber Security (December 6-10, 2011)-with financial support from the Department of Science and Technology (DST), Wipro, National Board for Higher Mathematics (NBHM), Department of Atomic Energy, International Mathematical Union (IMU), Germany and Academic support from Kerala Mathematical Association.
- ▪ The Department of History has applied for funds to ICHR for organizing National workshop/seminar on Gender and Human Rights-Violence against Women to be conducted during 24-25 September 2013.
- ▪ Darsana Counselling centre acts as a consultancy centre of the college. An amount of Rs 1, 92,000 was received from Central Welfare Board, Thiruvananthapuram for its activities.

- For organizing awareness generation project, a grant of Rs 20,000 was also sanctioned. Two 10 day camps were conducted at Chalakudy and Irinjalakuda during December 2008 and August 2011.

Alumnae

- As per the peer team recommendations, the institution gave emphasis on strengthening the participation of Alumnae in the all-round functioning of the college. January 26th, declared as Alumnae Day, gather Alumnae with their family from far and wide. A formal meeting is convened, Alumnae newsletter is distributed, and willingness to contribute towards specific projects for the benefit of student community of the college is sought.
- Being on the threshold of its Golden Jubilee, the college convened a gathering of various batches of Alumnae during the period and more than 1,000 alumnae attended the same. A common meeting of Alumnae representatives   and the concerned committee of faculty was held in the college, where it was proposed to conduct a cultural fest and sports meet of alumnae, to generate funds for dialysis of a patient every month, for educating poor students and for strengthening campus recruitment.
- During this period, the Alumnae has made contributions for installing LED display board, LCD projector and water purifier. Contributions for Student Welfare, National Seminar, Certificate course, Higher studies, Endowment, Scholarship, Quiz -prizes, Purchase of Books, Student aid, Marriage Fund etc amounted to Rs 3,71,000. It has also instituted an annual award for the Best Alumna for ex-students who excel in various walks of life.
- The College website provides separate domain for Alumnae for personal mail and access for each student. Steps are being taken to start alumnae chapters in gulf countries where large number of alumnae are employed.
- The contributions of 59 alumnae in the faculty are commendable in maintaining the cultural heritage of the institution.

Concern for Quality Culture

The idea of institutional quality culture lies closely intertwined with our orientation towards the needs of all its stakeholders. To make this effective the institution has introduced innovations such as learner centered research oriented inclusive and diverse teaching methodology, interdisciplinary approach, e-learning applications and new techniques of learning assessment. **'**Home for the Homeless', 'Green Campus – Clean Campus' and **'**Faculty @ Students' Homes' are some of the best practices adopted. The institutional culture is fortunately conducive to discuss, assimilate and internalize new ideas and strategies, and there are in place effective mechanisms to implement them. Teamwork and cross-functional co-operation form the key of the work culture of the institution.

Infrastructure Augmentation

During the post accreditation period, a Seminar Complex with smart A/C Seminar Halls, research rooms, computer labs and class rooms was constructed spending Rs. 1.5 crore to facilitate knowledge sharing and interactive learning. A new hostel building was constructed mainly for research and PG students spending Rs. 80 lakhs. To provide uninterrupted power supply for research activities HT installation was done spending Rs. 25 lakhs. Laboratory facilities in all departments were enhanced purchasing various equipment like spectrophotometers, autoclaves, Gas Chromatograph and FTIR. 150 computers, 18 LCD projectors, 5 smart boards, 21 printers etc., were purchased and additions made to the computer lab. Computers in the campus are connected by LAN with internet and Wi-Fi facility in special locations. Virtual lab facility is offered by registering with other Universities/institutions. INFLIBNET N-LIST facility is arranged in the library for e-learning. Installation of 15 CCTV cameras especially in the library helps disciplined use of the library resources. Various short films and albums were prepared by students and faculty including a Docufiction on the college, 'Insider – the Heartbeats of St.Joseph's'.

Social Responsibility

The institution, fully aware of its social responsibility has undertaken a lot of philanthropic activities through its various wings like NSS, NCC, CSS, CASP, AICUF, Women Development Centre and Darsana Counselling centre. It is a matter of contentment that the NSS could raise funds for the construction of three houses during the period. The activities of these wings have been recognized by several awards. NSS received award for maximum quantum of Blood Donation. The Best Women Cell award was received by WDC. The institution received Best Service Award from the Indian Blind Association. Janamaithri Policing Service Award was received by the Principal, one faculty and a student. NCC cadets were selected for national level camps, Republic Day Parade and for Youth Exchange Programme.

A Trust is instituted in the name of the Founder Principal, 'Rev. Sr. Mary Franco Memorial Educational and Charitable Trust' for various kinds of humanitarian activites.

IQAC Initiatives

IQAC of this institution has been able to make significant strides towards the professed objectives of NAAC during the period under review. It has devotedly carried out the following NAAC stipulated general functions during the period:

- Development of Bench marks for quality in academic and administrative activities
- Dissemination of information on the various quality parameters of higher education
- Organization of workshops and seminars related to quality and promotion of quality circles
- Documentation of the various programmes/activities leading to quality improvement
- Preparation of Annual Quality Assurance Report (AQAR) to be submitted to NAAC

Joining hands with the management, IQAC has given encouragement to the faculty to achieve high qualifications and attend high quality professional development activities. It has also provided support for continual improvement through research, consultancy and extension, continued to embed e-learning within the curriculum, championed the promotion of equal opportunities, diversity and inclusion, deviced a variety of assessment methods to ensure that learners have maximum opportunity to succeed and directed the faculty to undergo annual review and self assessment.

The institution has made sincere efforts on all fronts to promote quality and provide value oriented empowering education. As the above cited post accreditation initiatives underline, every attempt has been made to steer the institution towards the professed vision and mission, by incorporating the NAAC peer team recommendations, by reinforcing and augmenting the already existing best practices and by adopting innovative practices aimed at quality enhancement.

EVALUATIVE REPORTS
OF THE
DEPARTMENTS

Evaluative Report of Department of Biotechnology

1. Name of the Department	Biotechnology			
2.Year of Establishment	1999			
3.Names of Programmes/Courses Offered(UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	BSc Biotechnology		
	PG	MSc General Biotechnology		
4. Names of Interdisciplinary courses and departments involved	Nil			
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG			
6. Participation of the department in the courses offered by other departments	Certificate course offered by Economics department, Open courses offered from Departments of Zoology, Botany, Physical education and English			
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil			
8. Details of courses/programmes discontinued (if any) with reasons	Nil			
9. Number of teaching posts sanctioned and filled			Sanctioned	Filled
		Professors	Nil	-
		Associate Professors	Nil	-
		Asst.Professors	4	4
		Adhoc	3	3

10. Faculty Profile

Name	Qualification	Designation	Specialization
Dr.Viji Mary Varghese	MSc, PhD	Assistant Professor & HOD	Tissue engineering
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1 year and 6 months	-	
Dr Kavitha O	MSc, PhD	Assistant Professor	Biochemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	4	-	
Mr. Naijil George	MSc	Assistant Professor	Neuro Biology
	No of years of Experience	No. of PhD Students guided for the last 4 years	
	1 year and 2 months	-	
Dr. Sr. Viji M O	MSc, MPhil, PhD	Assistant Professor	Phytochemistry
	No of years of Experience	No. of PhD Students guided for the last 4 years	

	4		-		
Ms. Neeba Wilson		MSc	Ad-hoc Faculty		-
	No of years of Experience		No. of PhD Students guided for the last 4 years		
	1 year and 5 months		-		
Ms. Sreekala C		MSc	Ad-hoc Faculty		-
	No of years of Experience		No. of PhD Students guided for the last 4 years		
	2 months		-		
Ms. Anaswara Premkumar		MSc	Ad-hoc Faculty		-
	No of years of Experience		No. of PhD Students guided for the last 4 years		
	2		-		

11. List of senior visiting faculty	Mrs. Premy Sunny (Biostatistics)

12.Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (in %)

	2007-08	2008-09	2009-10	2010-11	2011-12
	100 for both UG & PG	100 for both UG & PG	100 for both UG & PG	100 for both UG & PG	25 for UG 100 for PG

13. Student Teacher Ratio (programme wise)	UG	PG
	13:1	4:1

14. Number of academic support staff (technical) and administrative staff	1	
15.Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG	PhD- 3 (one with MPhil as well) PG-4	
16.Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil	

17.Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	UGC	Nil
	DST-FIST	Nil

18.Research Centre/Facility recognized by the University	Nil

19.Publications :
   a) **Publication per faculty**
   b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
   c) **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
   d) **Monographs**

e) **Chapter in Books**
f) **Books Edited**
g) **Books with ISBN/ISSN numbers with details of publishers**
h) **Citation Index**
i) **SNIP**
j) **SJR**
k) **Impact factor**
l) **h-index**

Faculty	A	b1	b2	c	d	e	f	g	h	i	j	k	l
Dr.Viji Mary Varghese	5		2	2								4.12	145
Dr.Kavitha.O	1		1	1								2.87	105
Mr.Naijil George	17		13	13		1						32.47	1175
Dr. Sr.Viji.M.O	14	3	3	3				2				2.0	50
Ms.Divya K Vijayan	1	1											
Ms Aneesha Devassy	1												
Ms.Shiji Ibrahim	1												
Ms.Sujitha M	1												
Ms. Dafini Mendez	1	1											

20. Areas of Consultancy and Income Generated

- Water quality analysis
- Spectrophotometer analysis
- Microbial and biochemical techniques
- Sale of microbial cultures
- Sale of Biofertilizers and Mushroom

Income Generated : Rs. 16,650/-

21.Faculty as members in
  a)National committees b)International Committees c)Editorial Boards..

National committees	Mr. Naijil George - Joint secretary of Society for Biotechnologists(India) Dr. Sr. Viji M O - Life member of Indian Science Congress
International Committees	Dr. Sr.Viji.M O - Peer reviewer of international journal of Science Domain
Editorial Boards	Nil

22.Student projects **a)Percentage of students who have done in-house projects including**	100% of UG students in 2011-12

inter departmental/programme b)Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	100% of PG students

23.Awards/ Recognitions received by faculty and students

- Dr.Viji Mary Varghese - Alumna of Commonwealth Scholars
- Mr. Naijil George -Best panelist award, 2011 and Best workshop participant award
- 2011 in Neurocon, Calcutta
- Lekshmi P Mukundan - University I rank (2011-UG)
- Soumya M V- University III rank (2007- UG)
- Sreekala C - University III rank (2010-PG)
- Divya Denny, Seema Abraham- University I & II rank(2009 –PG)
- Manju C Abraham –University II rank (2008 – PG)
- Dhanya C Mohan, Bindiya Raveendran, P. Heera – University I, II and III rank (PG 2007)

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Dr. Rajan Joseph	Director of Kerala State Institute of Virology and Infectious Diseases
Dr. N. Gopalakrishnan	Senior scientific officer at RRL and Director, National Institute of Scientific Research
Mr. Benny George	Administrator of Crome Clinical Research, Cochin
Dr. Asha	Medical college, Thiruvanathapuram
Dr. Vinod Mathew & Mrs. Venetia D'Rose	L.I.F.E. Institute, Thiruvanathapuram
Mr.Kiran Kumar	Faculty, Research World, Ernakulam
Dr. Manitha B Nair & Dr. Sudhakar Muthyala	Amrita institute of medical sciences and research

25.Seminars/ Conferences/Workshops organized & the source of funding

	Event & Date	Funding Agency
National	Workshop on Bioinformatics (17-19 Feb 2009)	Department

26.Student profile programme/course wise

Year	Applications received		Selected		Enrolled		Pass percentage	
	UG	PG	UG	PG	UG	PG	UG	PG
2007-08	317	Applications for merit seats are received in the	25	12	25	12	100%	100
2008-09	300		16	11	16	11	100%	100
2009-10	366		30	7	30	7	100%	100

2010-11	270	University	22	8	21+1*	8	100%	100
2011-12	351		25	11	25	11	100%	100

*Lakshwadeep

27.Diversity of Students (%)	Students from the State	Students from other States	Students from other countries
2008-2009	100	0	**-**
2009-2010	100	0	
2010-2011	96.67	3.33	
2011-2012	97.22	2.78	

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. :

2008		2009		2010		2011	
JRF	GATE	JRF	GATE	JRF	GATE	JRF	GATE
3	1				1	-	-

29.Student progression

Student Progression	Against % enrolled				
	2007-08	2008-09	2009-10	2010-11	2011-12
UG to PG	81	92.85	86.36	81.25	76.67
PG to MPhil	8.3	-	-	-	-
PG to PhD	8.3	-	-	-	-
PhD to Post Doctoral	-	-	-	-	-
Employed • Campus selection • Other than campus	25% from PG, 13% from UG	16.6% from PG	45% from PG	28% from PG	12.5% from PG
Entrepreneurship/Self-employment	-	-	-	-	-

30.Details of Infrastructural facilities

a) Library : Full fledged department library and Biotechnology segment of Central Library with books, journals, e-data base and digital course ware
b) Internet facilities for Staff & Students
c) Class rooms with ICT facility : available
d) Laboratories : separate lab space for UG and for PG

31.Number of students receiving financial assistance from college, university,

government or other agencies:			
Period	**College**	**University**	**Government or other agencies**
2007-08	3	0	9
2008-09	3	0	10
2009-10	4	0	12
2010-11	4	0	18
2011-12	4	0	23

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

Special lectures – 1, Workshop – 1, Invited talk - 6

33.Teaching methods adopted to improve student learning:

- ICT oriented classes, OHP
- Each one teach one
- Remedial coaching
- Group discussion
- Industrial visits
- Assignment and seminars
- Virtual lab
- Wall magazine

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

1. Students are taken once in a year for outreach programme
2. Active participation in extension activities like
- Training programme on general lab techniques and plant tissue culture to students of various schools
- Orientation classes for plus two teachers
- Awareness programme and talk to control heart diseases
- Mushroom cultivation, vermicompost preparation
- Water Quality Analysis of local residents
- Survey of cardiovascular diseases
- Collaboration with Botany Department for cultivating plantains

35.SWOC analysis of the department and Future plans

Strengths	- Sufficient lab space and research equipments - Experienced and qualified faculty - Availability of a large number of books in both departmental as well as main library - Teaching method using ICT
Weakness	- Lab facilities need upgrading for advanced project works - Alumnae network is not strong

	• No permanent faculty till 2011 and M Sc still self financing • Presently no funded projects
Opportunities	• Can avail funded projects for lab infrastructure development • Can strengthen alumnae network
Challenges	• Less job opportunities in Kerala • Conventional family set up does not allow enter into jobs with tight time schedule.

Future Plans
• Plan for further development of e-library and virtual laboratory to facilitate upgraded ICT oriented teaching and learning • Advanced research lab funded by national agency • Lecture workshop with the help of Indian Academy of Sciences and International seminars • Availing major and minor projects • To sign MoU with National/ International Universities

Evaluative Report of Department of Botany

1. Name of the Department	Botany		
2. Year of Establishment	1980		
3. Names of Programmes/Courses Offered(UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	BSc Core Programme in Botany	
4. Names of Interdisciplinary courses and departments involved	Complementary Botany for Zoology students, open course in Horticulture & Nursery Management and Certificate course in E-Commerce and G-operator (MS Office) with technical collaboration with G-Tech Computer education		
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6. Participation of the department in the courses offered by other departments	Botany core programme students selected open course stream run by Dept. of Physics, Zoology, Chemistry and Biotechnology		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	NA		
8. Details of courses/programmes discontinued (if any) with reasons	NA		

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	-	-
	Associate Professors	4	4
	Asst.Professors	-	-

10. Faculty Profile

Name	Qualification	Designation	Specialization
Dr. Beena Anto K.	MSc, MPhil, PhD	Associate Professor & HOD	Plant Physiology and Biochemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	30	Nil	
Dr. Egy T. Paul	MSc, PhD	Associate Professor	Phytochemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	30	Nil	
Meena Thomas Irimpan	MSc, MPhil (PhD Thesis submitted)	Phytochemistry	

	No years of Experience	No. of PhD Students guided for the last 4 years	
	18	Nil	
Roselin Alex	MSc-Botany,MSc-Biotechnology(PhD Thesis submitted)		Environmental biotechnology
	No years of Experience	No. of PhD Students guided for the last 4 years	
	17	Nil	

11. List of senior visiting faculty	Prof.Sr. Mariamma N.K and Prof. Ms. Philomina Mathew

12.Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (in %)

	2007-08	**2008-09**	**2009-10**	**2010-11**	**2011-12**
	Nil	25%	25%	50%	50%

13. Student Teacher Ratio (programme wise)	UG	PG
	9:1	

14. Number of academic support staff (technical) and administrative staff	One

15.Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PhD 2(1 with MPhil) MPhil 1 PG 1

16.Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	One, National, UGC funded, 1.4 lakhs

17.Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	UGC	Rs. 140000/-
	DST-FIST	

18. Research Centre/Facility recognized by the University	Nil

19.Publications :
- a) **Publication per faculty**
- b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
- c) *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)*
- d) **Monographs**
- e) **Chapter in Books**
- f) **Books Edited**
- g) **Books with ISBN/ISSN numbers with details of publishers**
- h) **Citation Index**

i) SNIP j) SJR k) Impact factor l) h-index												
Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k
Dr. Beena Anto	16	5	7	-	-	-	-	-	-	-	-	2.1, 1.64, 1.5
Dr. Egy T Paul:	2	2										
Ms. Meena Thomas Irimpan	6	4	2									2.1, .3

20. Areas of Consultancy and Income Generated

• Consultancy for doing M.Sc project • Preparation of Medicated herbal soap • Ramacham scrub, mushroom cultivation and its preparation as curry • Resource person to give coaching classes for higher secondary school teachers and to give talk in inaugural ceremony of Science Exhibition in Nearby Plus Two School • Identification of Plants and medicinal herbs for local people	**Income Generated**- Free of cost

21.Faculty as members in
  a)National committees b)International Committees c)Editorial Boards

National committees	Dr. Beena Anto K - Member of Gregor Mendel Foundation, Department of Botany, University of Calicut, Kerala, P.S.C Question Paper Setter
International Committees	-
Editorial Boards	Reviewer of the website http://www.academicjournals.com Editor- proceedings of National Seminar conducted in dept.of Botany Ms. Roselin Alex – Reviewer-in the international journal- BIODEGRADATION.

22.Student projects a)Percentage of students who have done in-house projects including inter departmental/programme	100%
b)Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	

23.Awards/ Recognitions received by faculty and students.

College Union Chairperson & Student of the Year - Renjini Achuthan

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
G.Gopakumar	Asst. Professor, NIT, Calicut

Dr.Valsamma	Asst. Professor, Head of the Department, National Centre for Aquatic Animal Health, CUSAT
Professor Bhushan Patwardhan	Director, Institute of Ayurveda and Integrative Medicine & Prof. in Symbiosis International University, Pune
Dr. Joy Varghese T.	Chief Executive Officer, CARE KERALAM.
Dr. Sheela Karalam	Special Officer, R&D, Oushadi, Thrissur
Dr. Sarala Samuel	Senior Manager, R&D, Kerala Ayurveda Pharmacy Ltd.
Prof.Dr.C.I.Jolly	Research Advisor, Care Keralam, Amala Ayurvedic Hospital & Research Centre, TCR
Prof.Dr. Shivamurthy G.R.	Former Chairman of Botany Department, Mysore University
Dr.C.C.Harilal	Assistant Professor, Divison of Environmental Sciences, Department of Botany,University of Calicut. Editor, ECO-CHRONICLE
Dr.P.Lalitha	Assistant Professor, Department of Chemistry, Avinashilingam University for Women, Coimbatore
Dr.Surabhi K.S.	Project Assistant & Extension Inspector, Panmkaram, Wayanadu
Dr.Manoj BAMS	Vaidyaratnam Oushadhasala, Mannuthy.TCR

25.Seminars/ Conferences/Workshops organized & the source of funding

	Event & Date	Funding Agency
National	National seminar on Herbs and Herbal Medicine, 29- 30 Sep., 2010	UGC
	National seminar on Biodiversity and conservation of Nature, 23-24 Aug., 2011	UGC

26.Student profile programme/course wise

Year	Applications received		Selected		Enrolled		Pass percentage	
	UG(BSc Botany)	PG	UG(BSc Botany)	PG	UG(BSc Botany)	PG	UG(BSc Botany)	PG
2007-08	310	Nil	34	Nil	34	Nil	89.9%	
2008-09	305		34		34		85.5%	
2009-10	300		36		36		93.3%	
2010-11	342		35		35		83%	
2011-12	492		36		36		85.5%	

27Diversity of Students	Students from the State	Students from other States	Students from other countries
	36	Nil	Nil -

28.How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		2009		2010		2011	
JRF	SET	JRF	SET	JRF	SET	JRF	SET
	3		5		5		6

29.Student progression

Student Progression	Against % enrolled				
	2007-08	2008-09	2009-10	2010-11	2011-12
UG to PG	25	32	38	45	50

30.Details of Infrastructural facilities

Reference Books in all branches of Botany, Internet facility, Laboratory with sophisticated instruments and equipments, Chemicals which need for practical purposes, Computers, OHP, LCD, Printers, Scanner, Classrooms etc.

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	9		Jubilee State scholarships
2008-09	8 (Rank holders-Endowments)		Jubilee State scholarships-1(10,000/-)
2009-10	8 (Rank holders-Endowments)		Free ships, free books and stationary, fee concession etc.
2010-11	8 (Rank holders-Endowments)		Free career coaching, (applicable in all these years)
2011-12	8 (Rank holders-Endowments)		

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

33.Teaching methods adopted to improve student learning:

Remedial Caoching, Debate, Group discussion, PowerPoint presentation, Quiz etc., are conducted to reduce the stress on learner. The methodology is supported by ICT devices and gadgets.

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

1. Dr. Beena Anto K., a resource Person for Higher secondary school teachers in Cluster meeting
2. Trained the local unemployed women in profitable cultivation and identification of locally available medicinal plants

35.SWOC analysis of the department and Future plans

Strengths	• Out of 4 faculty members in the department 2 are PhD holders and 2 have submitted their theses. • Expertise of faculty in different areas of specialization • 100 medicinal plants are newly introduced into the herbal garden which

	was established in 2003.
	• A well maintained Herbarium cabinet and permanent slide cabinet is owned by the dept. • Botanical museum was renovated and presently a total of 500 specimens are preserved in it. • To provide specimens essential for practical work of students a beautiful Botanical garden is well maintained. A separate fern house xerophytes garden is also present in the garden with large biodiversity collection of plants. • Linkages with nearby research stations and universities
Weakness	Books on advanced topics are not available in the departmental library
Opportunities	• Training in Organic Farming • Consultancy for doing M.Sc.Projects • Medicinal plant identification and its uses • Linkage to nearby research stations and professional bodies
Challenges	• Low calibre of students at the entry level • Financially poor students
Future Plans	
	1. Start PG programme in Botany (Government Order awaited) 2. Apply for major projects

Evaluative Report of Department of Business Administration

1. Name of the Department	**Business Administration**		
2.Year of Establishment	2005		
3. Names of Programmes/Courses Offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	• Bachelor of Business Administration • Bachelor of Commerce with Computer Application	
4. Names of Interdisciplinary courses and Departments involved	• Accounting Computer in Tally • Tally and MS Office • Practical Accounting and Tax practice		
5. Annual/ Semester/choice based credit system(Programme wise)	Choice Based Credit & Semester System (CCSS) for UG.		
6. Participation of the department in the courses offered by other departments	Participation of III DC students in Open Courses conducted by the Departments of History, English, Mathematics and Physics		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8. Details of courses/programmes discontinued (if any) with reasons	Nil		

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	Nil	Nil
	Associate Professors	1	1
	Asst. Professors	Nil	Nil
	Adhoc faculty	6	6

10. Faculty Profile

Name	Qualification	Designation	Specialization
Mr.Thomas K I	M.com, M Phil	Associate Professor & HOD	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	33	Nil	
Ms. Vijaya E.S.	M com	Ad hoc faculty	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	6	Nil	
Ms. Teena Thomas	M com, M Phil B.Ed	Ad hoc faculty	Marketing
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	6	Nil	
Ms. Michelle Vivera	M com, MBA	Ad hoc faculty	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	6	Nil	
Ms. Leema Jose	M com, MBA	Ad hoc faculty	Finance

No. of Years of Experience		No. of PhD Students guided for the last 4 years	
5		Nil	
Ms. Remya Varghese	M Com, NET	Ad hoc faculty	Finance
No. of Years of Experience		No. of PhD Students guided for the last 4 years	
1 ½ yrs		Nil	
Ms. Santhi Menon P	MA English	Ad hoc faculty	European Fiction
No. of Years of Experience		No. of PhD Students guided for the last 4 years	
1		Nil	

11. List of senior visiting faculty	Mr. Jacob .G. Mambilly Retired Head,Dept of Commerce, St Joseph's College Irinjalakuda

12.Percentage of Lectures Delivered and Practical classes handled (programme wise) by temporary faculty: (in %)

Year	2007-08	2008-09	2009-10	2010-11	2011-12
%	100%	100%	100%	100%	100%

13. Student Teacher Ratio (programme wise)	UG
• **Bachelor of Business Administration.** • **Bachelor of Commerce with Computer Application**	23:1 16:1
14. Number of academic support staff (technical) and administrative staff	Nil
15.Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	MPhil – 2 PG – 5
16.Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil

17.Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	UGC	NIL
	DST-FIST	NIL

18. Research Centre/Facility recognized by the University	Dept of Business Administration is a part of Dept of Commerce which is a Research Centre of the University of Calicut (Approved as Research Centre in Nov 2012)

19.Publications :
- a) Publication per faculty
- b) Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students
- c) Number of publications listed in International Database (For Eg: Web of Science, Scopus, And Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- d) Monographs

e) Chapter in Books
f) Books Edited
g) Books with ISBN/ISSN numbers with details of publishers
h) Citation Index
i) SNIP
j) SJR
k) Impact factor
l) h-index

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l
Ms.Teena Thomas	3	2	-	-	-	-	-	-	-	-	-		-
Ms.Leema.Jose	6	-	6	-	-	-	-	-	-	-	-	6	-
Ms.Remya Varghese	4	-	3	-	-	-	-	-	-	-	-	4	-

20. Areas of Consultancy and Income Generated

Nil

21.Faculty as members in
a) National committees b) International Committees c) Editorial Boards.

National committees	Nil
International Committees	Nil
Editorial Boards	Nil

22. Student projects **a) Percentage of students who have done in-house projects including inter departmental/programme**	2007-08 -Nil 2008-09 -Nil 2009-2010 -Nil 2010-2011 -Nil 2011-2012 -74%
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	2007-08 - 100% 2008-09 -100% 2009-2010 -100% 2010-2011 -100% 2011-2012 -26%

23.Awards/ Recognitions received by faculty and student

- Ms Jain Paul , Student of the Year(2011-2012)
- Ms Neenu Maria , Folk dance , Non Academic II prize, Inter zone

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Dr. Ravindranath C	Pro Vice Chancellor,Calicut University
Dr. M D Inasu	Vice Chancellor, Cochin University
Prof. Thomas Panko	Assistant Prof. University Of Southern Mississipi,USA
Prof.Tony Henthrone	Assistant Prof.University Of Nevada,USA
Prof.Babu P George	Assistant Prof.,Member Senate University of Southern

	Mississipi,USA
Prof. Alwin J Williams	Assistant Prof.,University of South Allabama ,USA
Dr K G Jose	Director, Rajagiri Business School, Kalamassery
Prof Daniel John	Vidhya Bharathi Institute of Management and Technology
Dr Vijaya Kumar	HOD, Depart of Economics, Sree Krishna College Guruvayoor
Mr. C V Balachandran	ICWAI Chapter
Dr V M Xaviour	Additional Coordinator, School of Management Study, John Mathai Centre
Mr. Gopal	Logic School of Management,Cochin
Mrs. Meera Rajeevan	Senior President, Shobha Group Thrissur
Mr. Viswanathan Nair	System Manager, Kerala Agricultural University, Thrissur

25.Seminars/ Conferences/Workshops organized & the source of funding**:**

	Event & Date	**Funding Agency**
National	Seminar on Impact of e-commerce in rural areas 21-22 Dec 2011	Dept of Commerce and Management studies
International	Seminar on global financial crisis, 31 Jul 2007	Dept of Commerce and Management studies
	Seminar on new trends in business education. 18-19 May 2009	Dept of Commerce and Management studies
	Seminar on new age marketing strategies in banking and tourism sectors 14-15 May 2008	Dept of Commerce and Management studies

26.Student profile programme/course wise

Year	Applications received	Selected	Enrolled	Pass percentage
BBA	UG	UG	UG	UG
2007-08	143	30	30	80%
2008-09	109	34	34	96%
2009-10	140	40	40	95%
2010-11	137	36	36	97%
2011-12	99	33	33	97.4%
2012-13	109	30	30	Nil
BCom with Computer Application				
2012-13	32	32	32	
27.Diversity of Students BBA	Students from the State	Students from other States	Students from other countries	

07-08	100%	Nil	-
08-09	100%	Nil	-
09-10	97%	3%	-
10-11	100%	Nil	-
11-12	100%	Nil	-
12-13	100%	Nil	-
BCom with Computer Application			
2012-13	100%	Nil	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		2009		2010		2011	
JRF	SET	GATE/JRF	SET	JRF	SET	JRF	SET
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

29.Student progression

Student Progression	Against % enrolled					
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
UG to PG	95%	95%	95%	95%	98%	95%
PG to MPhil	Nil	Nil	Nil	Nil	Nil	Nil
PG to PhD	Nil	Nil	Nil	Nil	Nil	Nil
PhD to Post Doctoral	Nil	Nil	Nil	Nil	Nil	Nil
Employed • **Campus selection** • **Other than campus**	Nil 1	Nil Nil	Nil Nil	Nil Nil	Nil Nil	Nil Nil
Entrepreneurship/Self-employment	Nil	Nil	Nil	Nil	Nil	Nil

30.Details of Infrastructural facilities

- Desktop Computer-1
- Laptop -1
- Internet Facility
- Intercom Connection
- Shelves-4
- LCD-1
- Printer-1
- Library Books-329

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	Nil	Nil	Nil
2008-09	1	Nil	Nil
2009-10	2	Nil	Nil
2010-11	2	Nil	Nil
2011-12	2	Nil	Nil

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

- International Seminars: 3 (2008, 2009, and 2010), External experts: 7
- National Seminars: one (2011), External experts: 3
- Invited talks:14 (2007-2011), External experts-14

33.Teaching methods adopted to improve student learning:

1.Inside Class Room:- Power Point Presentation, Lecture, Case study, ICT oriented Classes, Brain Storming sessions

2.Outside Class Room:-Trade fair, Management Fest, Industry Visit, Workshop, Seminars, Assignment, Projects

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

Visit to the homes for the Destitute

35.SWOC analysis of the department and Future plans

Strengths	- Students of good Calibre - Dept Library-Well-equipped - Business Lab - Qualified faculty - House Visit - National or International seminar every year
Weakness	- Unavailability of Foreign books - Less contact with Consultants - Student Drop Outs - No regular Staff
Opportunities	- Professional and Value oriented courses - Regularization of courses
Challenges	Stress for Students

Future Plans

- Online Quiz Competition
- More Industrial Visits
- Personality Development Classess
- Organizing Management Fest

Evaluative Report of Department of Chemistry

1. Name of the Department	Chemistry		
2. Year of Establishment	1964		
3. Names of Programmes/Courses Offered(UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	BSc Chemistry	
	PG	MSc Chemistry	
	Research	PhD	
4. Names of Interdisciplinary courses and departments involved	Complementary Papers for BSc Botany, BSc Biotechnology and BSc Zoology		
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6. Participation of the department in the courses offered by other departments	Economics, Physical Education, Commerce, History, Zoology, English, Physics, Hindi, Malayalam, Mathematics		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8. Details of courses/programmes discontinued (if any) with reasons	Nil		

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	-	-
	Associate Professors	8	8
	Asst. Professors	2	2

10. Faculty Profile

Name	Qualification	Designation	Specialization
Ms. Lissy Thalakottur	MSc, MPhil	Associate Professor & HOD	Inorganic Chemistry
No. of Years of Experience		No. of PhD Students guided for the last 4 years	
32		Nil	
Dr. Rosabella K. Puthur	MSc, PhD	Associate Professor	Physical Chemistry
No. of Years of Experience		No. of PhD Students guided for the last 4 years	
31		Nil	
Ms. Mary Augustine	MSc, MPhil	Associate Professor	Organic Chemistry
No. of Years of Experience		No. of PhD Students guided for the last 4 years	
31		Nil	
Dr. Pearly Sebastian Chittilappilly	MSc, MPhil PhD	Associate Professor	Inorganic Chemistry
No. of Years of Experience		No. of PhD Students guided for the last 4 years	
29		3	

Ms. Jessy Emmanuel	MSc, BEd, MPhil, PhD	Associate Professor		Inorganic Chemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	21	Nil		
Ms. Annie C F	MSc, BEd, MPhil	Associate Professor		Inorganic Chemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	19	Nil		
Dr. Deena Antony C	MSc, BEd, PhD	Associate Professor		Inorganic Chemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	16	Nil		
Dr. Binsy Varghese V	MSc, MPhil BEd, PhD	Associate Professor		Inorganic Chemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	16	Nil		
Dr. Sr. Lilly K.O	MSc, BEd, PhD	Assistant Professor		Inorganic Chemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	15	Nil		
Sr. Mini Thomas	MSc	Assistant Professor		Physical Chemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	6 months	Nil		

11. List of senior visiting faculty _

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (in %)

	2007-08	2008-09	2009-10	2010-11	2011-12
UG	10	10	30	30	20
PG	10	10	20	20	10

13. Student Teacher Ratio (programme wise)	UG	PG
	14:1	2:1

14. Number of academic support staff (technical) and administrative staff	3

15. Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PhD-6 (3 with MPhil also) MPhil-3 PG-1

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received		Number	Grant Received
	National	2	2,37,500

17. Departmental projects funded by DST-	Funding Agency	Amount Sanctioned

FIST; DBT, ICSSR, etc. and grants received	UGC (PG grant & add-on course)	17.5 Lakhs
	DST-FIST	28.5 Lakhs

18. Research Centre/Facility recognized by the University	Research Centre approved by University of Calicut as per order no. CDC/B1/121/09-RRC dated 06-11-2009		
Research Supervisor	Conferred	Submitted	Ongoing
Dr. Pearly Sebastian Chittilappilly	Nil	Nil	3
Dr. Sr. Lilly K.O	_	_	_

19.Publications :
- a) **Publication per faculty**
- b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
- c) *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)*
- d) **Monographs**
- e) **Chapter in Books**
- f) **Books Edited**
- g) **Books with ISBN/ISSN numbers with details of publishers**
- h) **Citation Index**
- i) **SNIP**
- j) **SJR**
- k) **Impact factor**
- l) **h-index**

Faculty	a	b1	b2	c	E	f	g	h	i	j	k	L
Dr. Pearly Sebastian Chittilappilly	7	3	4	-	-	-	-	-	-	-	4.73	-
Ms. Jessy Emmanuel	1	-	1	-	-	-	-	-	-	-	.4	-
Ms. Annie C.F	2	-	2	-	-	-	-	-	-	-	.4	-
Dr. Deena Antony C	1	1	-	-	-	-	-	-	-	-	-	-
Dr. Binsy Varghese V	1	1	-	-	-	-	-	-	-	-	-	-
Dr. Sr. Lilly K.O	3	2	1	-	-	-	-	-	-	-	-	-

20. Areas of Consultancy and Income Generated

MSc Projects of students from other colleges. Chem-Show for students of High school students.	Rs. 10, 000
	Rs. 4, 000

21.Faculty as members in
   a) National committees b) International Committees c) Editorial Boards

National committees	Presiding Officer of Kerala Panchayat Election	
International Committees	„	
Editorial Boards	Dr. Pearly Sebastian Chittilappilly (Vistas)	
22. Student projects **a) Percentage of students who have done in-house projects including inter departmental/programme**	85%	
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	15%	

23.Awards/ Recognitions received by faculty and students

- Dr. Pearly Sebasian Chitilappilly - Researcher of the Year Award (Science) Pavanatma Educational Society (2009)
- Dr. Rosabella K. Puthur - appreciation and Honorarium from Indian Academy of Sciences Bangalore for organising Science Academies' lecture-workshop in our institution
- Benne Wilson-Best AICUF member (2012), Third Prize Beacon National Level Personality Contest (2011)
- Science Academies' Summer Project Fellowship - Resmy Thomas (2007), Nisha Nandakumar (2008), Divya C (2011)
- University Rank /Full A$^+$ Holders -Resmy Thomas (BSc III Rank (2007), Della Therese Davis (BSc I Rank (2009), Sana Abdul Khader, Amrutha Davis, Apsa Francis – Full A$^+$ (2012)

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Prof. K.L. Sebastian	Professor, IISc, Bangalore
Prof. A.G. Samuelson	Professor, IISc, Bangalore
Prof. G.Mugesh	Professor, IISc, Bangalore
Prof. Satish A Patil	Professor, IISc, Bangalore
Prof. P.S. Mukherjee	Professor, IISc, Bangalore
Dr. Suresh Das	Director, NIIST Trivandram
Dr. D.Ramaiah	Scientist, NIIST Trivandram
Dr. Kana M. Sureshan	Professor, IISER, Trivandram
Prof. P.A. Joy	Scientist, NCL, Pune
Dr. K. Vijay Mohan	Scientist, CECRI, Chennai
Dr. Prasad Edamana	Professor, IIT Madras
Dr. G. Sekar	Professor, IIT Madras
Prof. M. P. Kannan	Calicut University

25.Seminars/ Conferences/Workshops organized & the source of funding

	Event & Date	Funding Agency

National	Modern Trends in Chemistry, 24-25 Feb 2010 Modern Trends in Chemistry, 6-7 March 2012 Currents Trends in Chemistry,3-4 March 2011	Science Academies' Education programme UGC

26.Student profile programme/course wise

Year	Applications received		Selected		Enrolled		Pass percentage	
	UG	PG	UG	PG	UG	PG	UG	PG
2007-08	524	98	48	12	41	12	95.12	100
2008-09	596	96	48	12	42	11	100	81.81
2009-10	504	126	48	12	34	10	88.23	90
2010-11	596	131	48	12	38	12	92.1	100
2011-12	833	78	48	12	33	11	96.96	100

27.Diversity of Students

27.Diversity of Students	**Students from the State**	**Students from other States**	**Students from other countries**
	97%	3% (Lakshadweep)	-

28.How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		**2009**		**2010**		**2011**	
JRF	NET	JRF	NET	JRF	NET	JRF	NET
2	2	2	1	4	2	8	2

29.Student progression

Student Progression	Against % enrolled				
	2007-08	**2008-09**	**2009-10**	**2010-11**	**2011-12**
UG to PG	67	65	62	70	44
PG to MPhil	9	17	-	10	
PG to PhD	37	-	-	27	-
PhD to Post Doctoral			1		
Employed • **Campus selection** • **Other than campus**	- 10	- 2	- 11	1 2	- 3
Entrepreneurship/Self-employment	**61**	**70**	**55**	**20**	**15**

30.Details of Infrastructural facilities

- Lecture Halls with ICT facility:2
- Computer systems with printers and accessories:8
- Internet connectivity: available

- Departmental Library:books – 3550, Journals -32
- E-data Base: e-books : 26
- Digital courseware: Physical Chemistry, Inorganic Chemistry, Organic Chemistry
- Research, PG, UG, core & complementary Labs:6
- Gemology Lab:1

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	9	2	2
2008-09	9	-	4
2009-10	9	-	5
2010-11	10	-	11

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

- 3 National Seminars (2010, 2011, 2012), 13 external experts
- 3 Invited Talks during 2007-2012, 3 external experts
- 5 Chem-Week Celebrations during 2007-2012

33.Teaching methods adopted to improve student learning:

- Learner centered IT oriented teaching methodology with stress on assignments
- Self learning and appropriate testing systems
- Virtual labs
- Interactive smart board used in classes
- Presentation by faculty &students, mobile Labs to other institutions
- Outreach programme, seminars, Assignments &Projects
- Practical sessions, Remedial coaching
- Workshops, debates, walk-in-quiz, wall magazine

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

- Visit to home for the destitute
- CISCOM (Chemistry in service for common man) certificate course
- Workshops arranged for High school and Higher Secondary students
- Compulsory Social service scheme, NCC

35.SWOC analysis of the department and Future plans

Strengths	- University recognized Research centre with two research supervisors - DST-FIST Sponsored Department. - UGC Sponsored Add-on course - Completed six minor projects - Conducted three national seminars - Good team spirit among faculty

	• Excellent maintenance of Library, Lab & instrument facility • 27 students qualified NET-JRF/GATE • Good number of PhD holders in the Department
Weakness	• Extension and consultancy services are not up to the level • Alumna to be further strengthened • Reading habit and utilization of library to be enhanced • Research facilities to be improved further
Opportunities	• Faculty can extend their services to PG projects of other colleges • Production and promotion of CISCOM products can be extended
Challenges	• Lack of funds • Time constraint due to the tight schedule of CCSS syllabus
Future Plans	
	• Five more PhD supervisors • Three major & Ten minor projects • Innovative course "Molecular Modelling & Drug Designing" • Add on course on Soil Analysis • Soil Analysis Unit • Twenty PhD students in the department • Five International paper publications per year • One International/National Seminar per year

Evaluative Report of Department of Commerce and Management Studies

1. Name of the Department	Commerce and Management Studies		
2.Year of Establishment	1977		
3. Names of Programmes /Courses Offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	BCom	
	PG	MCom	
	PhD		
4. Names of Interdisciplinary courses and departments involved	Tally ERP 9, Accounting for Tax Practitioners		
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6. Participation of the department in the courses offered by other departments	Students of our department have attended open courses offered by various departments namely Economics, History and Mathematics.		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	NIL		
8. Details of courses/programmes discontinued (if any) with reasons	NIL		
9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	NIL	-
	Associate Professors	3	3
	Asst. Professors	5	4

10. Faculty Profile

Name	Qualification	Designation	Specialization
Dr.Philo Francis	PhD, MPhil, MCom	Associate Professor & HOD	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	30	4	
Dr. Jancy Davy	PhD, MPhil, MCom	Associate Professor	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	29 years 9 months	NIL	
Dr. Rosa K.D.	PhD, MCom, MA, PGDCA	Associate Professor	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	27	NIL	

Adv. Alphy Joseph K	BSc, LLB	Part-Time Law Lecturer	Law
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	33	NIL	
Sr. Ligy V.K	MCom, MPhil	Assistant Professor	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	3years 3months	NIL	
Elizabeth Paul C	MCom, BEd, DOA	Assistant Professor	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1year 3 months	NIL	
Remya S	MCom	Assistant Professor	Marketing
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1year 3 months	NIL	
Soumya Stephen A	MCom	Assistant Professor	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1year 3 months	NIL	
Dhanya M Babu	MCom, BEd	Ad-hoc	Finance
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	2years 5 months	NIL	

11. List of senior visiting faculty	Jacob G Mampilly (Rtd. Head, Dept. of Commerce, St.Joseph's College)

12. Percentage of lectures delivered (programme wise) by temporary faculty: (in %)

	2007-08	2008-09	2009-10	2010-11	2011-12
	56.64	56.64	36.09	62.9	11.76

13. Student Teacher Ratio (programme wise)	UG	PG
	45:1	6:1
14. Number of academic support staff (technical) and administrative staff	NIL	
15. Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PhD-3 (2 with MPhil as well), MPhil-1, PG.- 4	
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	National - 1 (Rs. 25000)	

17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	UGC(Minor Project)	Rs 25000

	PG Grant	Rs 4,50,000
18.Research Centre/ Facility recognized by the University	Approved as Research Centre in November 2012	

19.Publications :
- a) **Publication per faculty:**
- b) **Number of papers published in peer reviewed journals (b1.national/ b2.international) by faculty and students**
- c) *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)*
- d) **Monographs**
- e) **Chapter in Books**
- f) **Books Edited**
- g) **Books with ISBN/ISSN numbers with details of publishers**
- h) **Citation Index**
- i) **SNIP**
- j) **SJR**
- k) **Impact factor**
- l) **h-index**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l
Dr. Philo Francis	12	3	7	-	-	-	-	-	-	-	-	2	-
Dr. Jancy Davy	7	-	2	-	-	-	-	-	-	-	-	-	-
Dr. Rosa K.D	11	-	5	-	-	-	-	1	-	-	-	2	-
Adv. Alphy Joseph K	-	-	-	-	-	-	-	-	-	-	-	-	-
Sr. Ligy V.K	2	-	-	-	-	-	-	-	-	-	-	-	-
Elizabeth Paul C	7	-	6	-	-	-	-	-	-	-	-	2	-
Remya S	10	-	8	-	-	-	-	-	-	-	-	2	-
Soumya Stephen A	6	-	4	-	-	-	-	-	-	-	-	2	-

20. Areas of Consultancy and Income Generated

Honorary services like Income Tax Consultancy for filing of returns, Dr. Rosa K.D. as Chairman of IT Exhibition, Member of Advisory Board of www. Irinjalakuda.com, Family Counsellor of Pavanathma Province, Convenor of mass media, Holy Family Generelate, Mannuthy, Member – Justice Forum, Irinjalakuda Diocese, Consultancy in Foundation and Administration of SPIPS, Indore, MP, ISBN book 'Empowerment of Women, Impact of Employment', Abhijeet Publications, Delhi

Adv. Alphi Joseph K – Notary Public, Legal Advisor to Bank of Baroda, Federal Bank, SBI, SIB, UBI and Appolo Tyres Ltd., Director Board member – Dharmaposhana Co. and Sevana Kuries Pvt. Ltd.

21.Faculty as members in
a) National committees
　　　　Presiding officer in Kerala State Panchayath Election- 2

b) International Committees- NIL **c) Editorial Boards.-**NIL		

22. Student projects **a) Percentage of students who have done in-house projects including inter departmental/programme**	20%
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	80%

23.Awards/ Recognitions received by faculty and students

- Best Researcher Award: Dr.Philo Francis (2008) and Dr. Sr. Rosa K.D (2009) instituted by Pavanathma Educational Society
- Best Teacher Award 2008: Dr.Philo Francis instituted by Pavanathma Educational Society
- Star of India; Divya K.M. Instituted by Govt. of India for outstanding sports persons.
- International Volley Ball Player: Deepika Babu Raj (2009) & Thulasi P.C (2010)
- All India Inter University Volley Ball Player-Sruthy K M (2012) & Neethu Haridas (2010)
- Inter Collegiate Volley Ball Championship Calicut University 2012-Neethu Haridas & Anju Gopal
- Senior state Championship 2012- Neethu Haridas & Anju Gopal

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Prof Thomas Panko	Asst. Prof. Uty of Southern Mississippi, USA
Prof Tony Henthrone	Asst Prof. Uty. Of Nevada, USA
Prof Babu P George	Asst. Prof. Member Senate Uty of Southern Mississippi, USA
Mr. Alwin J Williams	Asst. Prof. Uty of South Alabama, USA.
Dr. Francis Gyanasekhar-	Associate professor and Head St.Joseph's College Trichi
Dr K G Jose	Director Rajagiri business School Kalamassery
Mr. Raveendranath C	Pro-Vice Chancellor, Calicut university
Dr. N D Inasu	Vice Chancellor, Cochin University
Mr. Viswanadhan Nair	System Manager Kerala Agricultural University Thrissur

25.Seminars/ Conferences/Workshops organized & the source of funding

	Event & Date	Funding Agency
National	Seminar on Impact of E-commerce in Rural Areas. 21-22 Dec 2011	Dept of Commerce & Management Studies
International	Seminar on Global Financial Crisis. 31 Jul 2007	Dept of Commerce & Management Studies
	Seminar on New Trends in Business Education.18-19 May 2009	Dept of Commerce & Management Studies

	Seminar on New Age Marketing Strategies in Banking and Tourism Sectors.14-15 May 2008						Dept of Commerce & Management Studies	

26.Student profile programme/course wise

Year	Applications received		Selected		Enrolled		Pass percentage	
	PG	UG	PG	UG	PG	UG	PG	UG
2007-08	144	869	12	60	12	57	89.74	89
2008-09	76	769	20	60	20	59	70	88.13
2009-10	87	1036	16	60	16	51	93.75	90.19
2010-11	124	2538	17	60	17	58	94.12	94.83
2011-12	Single Window	2531	16	60	16	56	63.15	91.07

27. Diversity of Students	% of Students from the State			% of Students from other States		% of Students from other countries	
		UG	PG	UG	PG	UG	PG
2007-08		100	100	NIL	NIL	NIL	NIL
2008-09 *Lakshadweep		100	99.95	NIL	0.05*	NIL	NIL
2009-10		96.7	100	3.3	Nil	NIL	NIL
2010-11		100	100	NIL	NIL	NIL	NIL
2011-12		100	100	NIL	NIL	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		**2009**		**2010**		**2011**	
JRF	NET	JRF	NET	JRF	NET	JRF	NET
0	1	0	1	1	0	1	1

29.Student progression

Student Progression	Against % enrolled				
	2007-08	2008-09	2009-10	2010-11	2011-12
UG to PG	65	67	63	68	61
PG to MPhil	NIL	NIL	NIL	NIL	NIL
PG to PhD	NIL	NIL	NIL	1	NIL
PhD to Post Doctoral	Nil	Nil	Nil	Nil	NIL
Employed • Campus selection • Other than campus	NIL 10	NIL 12	NIL 12	NIL 11	3 5

Entrepreneurship/Self-employment	NIL	NIL	NIL	NIL	NIL

30.Details of Infrastructural facilities

- ➢ Computer systems with printers and accessories: 2
- ➢ Laptops: 2, LCD Projector: 2
- ➢ Internet connectivity: Available
- ➢ Departmental Library: Books-150, Journals: 15, Business Lab
- ➢ Class room with ICT Facility:2

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	2	NIL	8
2008-09	2	NIL	11
2009-10	4	NIL	9
2010-11	2	NIL	29

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

- ➢ International Seminars: 3 (2008, 2009 and 2010), External experts: 7
- ➢ National Seminars: one (2011), External experts: 3
- ➢ Invited talks:13 (2007-2011), External experts-13

33.Teaching methods adopted to improve student learning:

Power Point Presentation, Brain Storming, Debates, ICT oriented Classes

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

- ➢ **Celebrated Onam** by conducting feast to the abandoned and interacted with them. Visited, entertained and interacted with the destitute
- ➢ **Dr Philo Francis**: The subject expert in Commerce of Calicut University, Research guide in MG University & Calicut University, Question paper setter - Kerala University, Mahatma Gandhi University, Kerala Agricultural University and Pondicherry University - Member of PG Viva board, MSC Corporation and Banking Kerala Agricultural University, guided MBA students of Pondicherry University& member in the Examination Board of the Association of Company Secretaries, India., Panel Discussion -AIR on Globalisation
- ➢ **Dr. Jancy Davy:** Guided MBA students of Calicut and question paper setter of Mahatma Gandhi University
- ➢ **Dr. Rosa K D** : Subject expert in Commerce of Calicut University, Research guide in MG University & Calicut University, Paper setter - MSC corporation and Banking Kerala Agricultural University, has given consultancy and English Language Assistance for PhD, MA, MPhil, MCom and MBA Courses, Talk on All India radio on Women Empowerment, Panel Discussion -AIR on Globalisation

35.SWOC analysis of the department and Future plans

Strengths	➢ Students of good caliber ➢ Dept library, Business lab

	- Qualified faculty - House visits, tutorial - Use of ICT - Paper presentations & Publications -55 - Research Centre status and two Research Guides - National or International Seminar every year and publication of its proceedings, Issue of research journal named 'Companion' - Eminent personalities visited the department - Conducted an online essay competition on the topic 'Direct Tax and National Development' in commemoration of the 150th year of Income Tax Act 1861 - State Level Management Game – the only Arts and Science College to conduct this kind in Kerala
Weakness	- Unavailability of foreign books - Less contact for consultancy - Less extracurricular activities
Opportunities	- Professional and value oriented courses - External opportunities - Post doctoral projects
Challenges	Setting up of full-fledged research centre

Future Plans

The department dreams of conducting the following activities in the coming years –
- Online quiz competition
- An ISSN Journal from the Department
- Personality development classes
- More outreach programmes
- Research centre- a full-fledged centre of excellence

Evaluative Report of Department of Economics

1. Name of the Department	Economics
2.Year of Establishment	1964
3.Names of Programmes/Courses Offered(UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG –BA Economics
	BA Core Programme in Economics. Certificate Course. G-Operator(MS –Office), e-Commerce with technical support of G-Tec, (Govt .approved Computer Training vendor)
4. Names of Interdisciplinary courses and departments involved	Open Course- Banking offered to Commerce, BBA, Maths, Physics, Chemistry, Botany, History and English
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG
6. Participation of the department in the courses offered by other departments	Open Course, Our students participating in the open courses offered by the departments of English, Botany, Commerce, BBA, Maths and History
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	Computer Course G-Operator (MS Office), e-Commerce with technical support of G-Tec, (Govt. approved Computer Training Vendor)
8. Details of courses/programmes discontinued (if any) with reasons	Nil

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	-	-
	Associate Professor	01	01
	Assistant Professors	02	02
	Adhoc Faculty	01	01

10. Faculty Profile

Name	Qualification	Designation	Specialization
Dr.Valsa John C	MA,Mphil,PhD	Associate Professor &HOD	Industrial Economics
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	29		
Mrs Baby V.O	MA,MPhil,BEd	Assistant Professor	Industrial Economics
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	11		
Sari T C	MA	Adhoc faculty	
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1	-	
Beena C V	MA	Assistant Professor	

	No. of Years of Experience	No. of PhD Students guided for the last 4 years			
	3	-			

11. List of senior visiting faculty	Nil				

12.Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Adhoc faculty	2007-08	2008-09	2009-10	2010-11	2011-12
Economics	22%	22%	22%	22%	22%
Sociology	100%	100%	100%	100%	100%

13. Student Teacher Ratio (programme wise)	UG	PG
	45:1	NA

14. Number of academic support staff (technical) and administrative staff	NIL

15.Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PhD-1&PhD submitted-1(with 2 MPhil) PG-2

16.Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	NIL

17.Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	UGC	Rs.50000/-
	DST-FIST	--------

18. Research Centre/Facility recognized by the University	NA

19.Publications :

- a) **Publication per faculty**
- b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
- c) *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)*
- d) **Monographs**
- e) **Chapter in Books**
- f) **Books Edited**
- g) **Books with ISBN/ISSN numbers with details of publishers**
- h) **Citation Index**
- i) **SNIP**
- j) **SJR**
- k) **Impact factor**
- l) **h-index**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l

Dr Valsa John C	14	8
Ms. Baby V O	1	--
Ms .Sari T C	1	--
Ms. Hima P C	--	---

20. Areas of Consultancy and Income Generated:

- Prathyasa, a crisis intervention centre, Irinjalakuda Diocese
- Question paper setting for Agricultural University, Mannuthy
- Assistance to PG Projects
- Family Renewal programme
- Entrepreneurs through ED club
- Subject expert of Calicut University

21.Faculty as members in
   a)National committees b)International Committees c)Editorial Boards.

National committees	Econometric society, FET(Member)
International Committees	Member of BEFRIENDER
Editorial Boards	VISTAS

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**	2008-09 100 % 2009-10 100 % 2010-11 100 % 2011-12 100 % NIL

23.Awards/ Recognitions received by faculty and students:

- International & National champions in volleyball (2012) -Anju Balakrishnan & Drisya K
- Participant in Republic parade in Delhi (2009-10), Star of Excellence (2010), Student of the Year- Dhanya Babu C (2011)
- Star of India Award (2009-10)- Sanjana P
- Kalalayaratna Award (2010-11) -Dhanya Babu
- First in Inter collegiate Volleyball (2011-12)- Anitta James
- First in Intercollegiate Ball Badminton (2011-12)- Jini Narayanan
- First in Intercollegiate general quiz (2011), Malayalam Literary quiz- Lojana (2011), Aneesha K A
- Best NSS Volunteer (2010)-Vandana Nandhanan

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Dr. Ranga Reddy	Professor, Sri Venkadeswara University, Thirupathy
Dr. R Kumran	Associate professor, Rural Insstitute Gandhigram Dindigal
Dr. Unnikrishnan K	Consultant, KITCO placement park, division, IDBI& GOI

V S Sukumaran	Associate Senior faculty,EDI, Ahmedabad
Dr. Sindhu M	Research Assistant, Madras School of Economic Thought
Dr. Sunil Kumar K K	Director, Centre for Social Studies, Thrissur
Mrs. Parveen Hafeez	M.D Sun Rise Group, Chairperson, Kerala Chamber of Commerce and Industry
Dr. Mani K P	Professor, Agricultural University, Mannuthy
Dr. V.KVijayakumar	Investment Strategist Geogit BNP Paribas
Dr. Claramma K	Associate Professor, St. Teresas College, Ernakulam
Dr.Lakshmy Devi K.R	Professor & Head, Department of Economics, University of Calicut

25.Seminars/ Conferences/Workshops organized & the source of funding

	Event & Date	Funding Agency
National	National seminar on Special Economic Zone-5-6th MAR 2009	UGC
	• National seminar on Women Empowerment Through Entrepreneurship-19-20,January 2011 • Three Day Workshop on Entrepreneurship Awareness 3-5, Dec 2012 • 18 Regional seminars (2008-12)	Alumnae EDII, Ahemedabad & NSTEDB
International	-	

26.Student profile programme/course wise

Year	Applications received		Selected		Enrolled		Pass percentage	
	UG	PG	UG	PG	UG	PG	UG	PG
2007-08	1127	NA	59+1*		56		100	
2008-09	890	NA	61		60		100	
2009-10	1175	NA	61		55		100	
2010-11	885	NA	60				---	
2011-12	1126	NA	60	-	60		---	

27.Diversity of Students	Students from the State	Students from other States	Students from other countries
	2007-08 59+1* 2008-09 61 2009-10 61 2010-11 60 2011-12 60 *Lakshadweep	1.66%	NIL

28. How many students have cleared national and state competitive examinations such as

NET, SLET, GATE, Civil services, Defense services, etc.							
2008		**2009**		**2010**		**2011**	
JRF	NET	JRF	NET	JRF	NET	JRF	NET
--	1	--	2	2	--	4	1

29.Student progression

Student Progression	Against % enrolled				
	2007-08	**2008-09**	**2009-10**	**2010-11**	**2011-12**
UG to PG	48	46	49.5	49	50
PG to MPhil	8	7	10	9	10
PG to PhD	3.50	3.50	3.75	4	4
PhD to Post Doctoral	--	--	--	--	--
Employed • **Campus selection** • **Other than campus**	47	50	46	48	54
Entrepreneurship/Self-employment	0.5	1.0	2.0	2.0	2.0

30.Details of Infrastructural facilities

Department Library: 190 books & 2 Journals, Internet facility, OHP, Class with ICT facility:1

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	8	8	40
2008-09	8	10	42
2009-10	8	12	38
2010-11	8	10	41

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts:

- National seminars
- Regional seminars
- Talks in relation to various national and international days celebrations
- Workshop
- Students discussions, debates and seminars
- Quiz and Essay competitions,ECON Exhibition
- Industrial visits, Self employment certificate courses
- Remedial coaching , Peer group teaching, outreach programmes

33.Teaching methods adopted to improve student learning:

- Debate, Discussions,Seminars

- Powerpoint presentations
- Assignments
- Internet
- Eco friendly teaching
- Each one teach one
- Poster making and Wall magazine, surveys, projects, remedial coaching

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

- Neighbourhood network activities like distribution of Rice, Food packets, Seed and Anti poverty kit
- Self employment Programmes for BPL families
- State level essay competition
- Quiz competition (Inter collegiate &Interschool)
- Exhibition
- Surveys, Projects
- Poster making
- Visit to home for destitute
- Industrial visits
- Counselling to prevent suicide
- Counselling to alcoholics and drug addicts
- Presiding officer - Panchayat election (2010)

35.SWOC analysis of the department and Future plans

Strengths	- Academic excellence - Rank with excellent result. - Hardworking and persevering qualified teachers with PhD - Industrial visit - Positive response of students to faculty guidance - Cordial relationship of faculty with students and their parents through house visit - Keen awareness of social responsibility among the faculty and students - Annual Econ meet (Strong alumnae) - ED club activities for women empowerment - Generous financial contribution to the needy students and society
Weakness	- Lack of PG course - Insufficient computer facility - Shortage of fund - Shortage of permanent teachers
Opportunities	- PG courses - Computer lab - Conscientising parents of students to achieve a degree in their life - Approaching funding agencies like ICSSR and UGC - Apply for Add-On courses and projects from UGC - Appointment of permanent faculty

Challenges	- Insufficient computer Lab - Time limitation due to for syllabus completion - Difficulty of starting new programmes due to lack of funds

Future Plans:

- PG course
- Research department
- International and National seminars
- Add on course on entrepreneurship skill development
- Major projects

Evaluative Report of Department of English

1. Name of the Department	English	
2.Year of Establishment	1964	
3.Names of Programmes/Courses Offered(UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	BA English Language and Literature
	PG	MA English Language and literature
4. Names of Interdisciplinary courses and departments involved	Subsidiary courses for BA English together with the Department of History and the Department of Sociology. Common English language Course for all UG programmes. Open Course in Creative Writing offered by the Department	
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG	
6. Participation of the department in the courses offered by other departments	Students of the Department participate in the Open Courses offered by the other Departments	
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil	
8. Details of courses/programmes discontinued (if any) with reasons	Nil	

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	-	-
	Associate Professors	4	4
	Asst.Professors	8	7

10. Faculty Profile

Name	Qualification	Designation	Specialization
Dr. Rani Paul Ukkan	MA, MPhil, PhD	Associate Professor	English, Critical Theory and Fiction
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	31	-	
Dr.Sarala Joyce Christopher	MA, MPhil, PhD	Associate Professor	Indian Writing in English
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	29	-	
Dr. Shali Anthappan	MA, PhD	Associate Professor	Children's Literature
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	23	-	

Dr. Asha Thomas	MA, PhD	Associate Professor	American Poetry and Children's Literature
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	19	-	
Ms.Sujitha V.S.	MA, MPhil, Doing Part-time PhD	Assistant Professor	Film Studies
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1 year and 6 months	-	
Dr. Sajo Jose	MA ,MPhil PhD English MA –Philosophy	Assistant Professor	Contemporary British Theatre
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1 year and 6 months	-	
Ms.Sonima K.K.	MA, BEd	Assistant Professor	Dalit Literature and cultural studies
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1 year and 6 months	-	
Ms. Archana V.	MA, Doing Part time PhD	Assistant Professor	Japanese Canadian Writing
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	5 months	-	
Ms.Sheena P.C.	MA, BEd	Assistant Professor	
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	5 months	-	
Ms.Geetha Jacob	MA, BEd	Assistant Professor	
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	5 months	-	
Ms.Anju Susan George	MA	Assistant Professor	Feminist Literary Theory
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	3 months	-	
Ms. Elizabeth Blessy Mohan	MA, BEd	Adhoc Faculty	
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	2 years	-	
11. List of senior visiting faculty	1.Dr. Radha P.S , Former HOD, Dept. of English, St.Joseph's College, Irinjalakuda 2. Mrs. Mary Vithayathil, Former HOD, Dept. of English, St.Joseph's College, Irinjalakuda 3. Dr. Vimala K. Menon, Former Faculty, Dept.of		

	English, St.Joseph's College, Irinjalakuda

12.Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (in %)

	2007-08	2008-09	2009-10	2010-11	2011-12
	55%	64%	64%	36%	9%

13. Student Teacher Ratio (programme wise)	UG		PG
	10:1		3.3:1

14. Number of academic support staff (technical) and administrative staff	Nil

15.Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PhD- 5 (3 with MPhil as well) MPhil- 1 PG- 6

16.Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	National---1 Grant Received: Rs 1,43,000

17.Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	University of Calicut (Reg. Seminar)	Rs15000
	UGC(Add-On)	Rs 9,70,000
	PG Grant	Rs. 4,60790

18. Research Centre/Facility recognized by the University	Recognized by the University of Calicut as Research Department

19.Publications :
- a) **Publication per faculty**
- b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
- c) **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- d) **Monographs**
- e) **Chapter in Books**
- f) **Books Edited**
- g) **Books with ISBN/ISSN numbers with details of publishers**
- h) **Citation Index**
- i) **SNIP**
- j) **SJR**
- k) **Impact factor**
- l) **h-index**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	
Dr. Rani Paul Ukkan	5	4	1	-	-	-	-	-	-	-	-	-	-
Dr.Sarala Joyce	2	2	-	-	-	-	-	-	-	-	-	-	-

Christopher												
Dr. Asha Thomas	6	5	1	-	-	-	-	-	-	-	-	-	-
Ms. Sujitha V.S	1	1	-	-	-	-	-	-	-	-	-	-	-
Ms Sonima K.K	2	1	1	1	-	-	-	-	-	-	-	-	-
Ms. Archana V	3	2	1	-	-	-	-	-	-	-	-	-	-
Ms. Anju Susan George	3	2	1	-	-	-	-	-	-	-	-	-	-

20. Areas of Consultancy and Income Generated

- Dr. Rani Paul Ukkan has given annual lectures on 'English in Scientific Research Writing' for the PG and PhD Scholars of the College of Veterinary and Animal Sciences, Kerala Agricultural University from 2007 to 2011. Services rendered on a non remunerative basis
- The department offers English language assistance, editorial assistance and proof reading services.

21.Faculty as members in
   a)National committees b)International Committees c)Editorial Boards.

National committees	Four faculty members served as presiding officers in Panchayath, Legislative and Parliament elections
International Committees	Nil
Editorial Boards	Dr. Asha Thomas-The Sybil Dr Rani Paul Ukkan-Charity Blossoms, RAYS

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	**100%** (UG and PG English students have undertaken projects as part of their curriculum)
	Nil

23.Awards/ Recognitions received by faculty and students

- Teacher of the year Award instituted by Pavanathma Educational Society- Dr.Rani Paul Ukkan (2009 –10)
- Best Researcher in Arts instituted by Pavanathma Educational Society, 2011-12 - Dr. Rani Paul Ukkan
- Student of the Year Award- Bijna Mohan Babu 2009
- Student of the Year Award - Nasneen Youssef 2011(I st Runner-up)
- First Prize and a cash award of 250 dollars in the Professional Aptitude Test sponsored by Hongkong and Shangai Banking Corporation, Mumbai (July 2009): Amita Prakash
- Numerous prizes in quiz competitions at the Inter- collegiate level: Clinta P.S.
- National Level Volleyball Player- Asha Stenny- I B A English

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Dr. Clare Bradford	Professor, Deakin University, Melbourne
Dr. M V Narayanan	Professor and Research Guide, Dept. of English, University of Calicut

Prof. Dr. C S Jayaram	Director, Raja Ravi Varma Fine Arts Institute, Mavelikkara, Former Head, Dept. of English, S.H. College, Thevara
Dr. V Kadambari	Associate Professor, Ethiraj College, Chennai
Dr. M T Ansari	Associate Professor, Centre for comparative literature, University of Hyderabad
Dr. Muraleedharan T	Associate Professor and Head, Dept. of English, St. Aloysius College, Elthuruthu, Thrissur
Dr. M Manonmani	Associate Professor Head, Research Dept. of English, Vellalar College for women, Erode
Dr. N Prasanth Kumar	Associate Professor, Head & Research Guide, Dept. of English, Sree Sankaracharya University of Sanskrit, Kalady
Dr. Janaki Sreedharan	Associate Professor, Dept. of English, University of Calicut
Dr. Anto Thomas	Associate Professor, St. Thomas College, Thrissur
Dr. Davis C J	Associate Professor, St. Thomas College, Thrissur
Dr. K J Varghese	Associate Professor, Christ College, Irinjalakuda

25. Seminars/ Conferences/Workshops organized & the source of funding

	Event & Date	Funding Agency
National	UGC National Seminar, Revisitations: The Politics of Rewriting Old Texts on , March 23 & 24, 2011	UGC
Regional	Career Guidance Workshop	University of Calicut
International	Workshop on Australian Children's Literature by Dr. Clare Bradford, Deakin University, Melbourne, September 15, 2008	Department

26. Student profile programme/course wise

Year	Applications received		Selected		Enrolled		Pass percentage	
	UG	PG	UG	PG	UG	PG	UG	PG
2007-08	929	85	40+1*	18	40+1*	18	94.6	88.89
2008-09	1060	92	40+1*	17	40+1*	17	100	95
2009-10	1297	100	40+1*	18	40+1*	18	97.29	95
2010-11	883	79	40+1*	17	40+1*	17	100	100
2011-12	1211	Single Window	40+1*	20	40+1*	20	100	Not published
* Lakshadweep candidate								

27. Diversity of Students	Students from the State	Students from other States	Students from other countries

2007-08	97.5	2.5	Nil
2008-09	97.5	2.5	Nil
2009-10	97.5	2.5	Nil
2010-11	98.3	1.7	Nil
2011-12	98.3	1.7	Nil

28.How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008			2009			2010			2011		
JRF	NET	SET	JRF	NET	SET	JRF	NET	SET	JRF	NET	SET
1	1	13	1	1	4	-	-	6	-	2	7

Student Progression

	2007-08	**2008-09**	**2009-10**	**2010-11**	**2011-12**
UG to PG	20	25	50	55	45
PG to MPhil	-	1.25	-	-	-
PG to PhD	-	-	0.625	-	-
PhD to Post Doctoral	-	-	-	-	-
Employed • **Campus selection** • **Other than campus**	60	50	35	60	40
Entrepreneurship/Self-employment	10	8	12	16	7

30.Details of Infrastructural facilities

- Faculty Reference Books
- Availability of internet facility
- Class rooms with ICT facility: 1 (II PG English Classroom)
- Laboratories: Language Lab

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	11	-	74
2008-09	12	-	74
2009-10	12	-	73
2010-11	11	-	75

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

- Add-On Courses in Spoken English/ Communicative English
- Endowment talks and invited lectures on different topics

- Vocabee- Word power and Spellitz competitions for the entire college
- Poet's Day
- *Riders to the Sea* on stage by School of Drama
- Western Musical Concert by Prof. Michel Rutscho and Ms. Christin
- Speak English Programme
- Faculty Exchange Programme
- Manuscript by students and English Club
- SAGESSE LIT- Inter Collegiate Literature Quiz

33.Teaching methods adopted to improve student learning:

- ICT Teaching aids
- Group Discussion
- Role Play
- Debate
- Peer Interaction
- Seminars and Workshops
- Poster Making
- Faculty Exchange Programme

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

- Free English tuitions to school students and free classes for specially challenged children
- Green Earth Project
- Outreach programmes
- Non-academic extension programmes
- Philanthropic physical assistance to the aged destitutes of Santhi Sadan, Irinjalakuda. (Students and Faculty)
- Dr. Rani Paul Ukkan (Faculty) works as Counsellor at 'Prathyasha', the Crisis Intervention and Suicide Prevention Centre and 'Justice Forum', Dispute Settling Centre (From 1996 onwards)

35.SWOC analysis of the department and Future plans

Strengths	- 5 Doctorate holders and 2 others pursuing PhD - High demand Ratio for the courses - Student friendly department - English Language assistance provided - Recently granted Research Department status
Weakness	- Inadequate campus recruitment
Opportunities	- Diversified job opportunities through add-on courses and other programmes - Publish a Department Journal - Language assistance through language lab
Challenges	- Lack of excellence among students due to the poor family and academic background - Limitations of CCSS Syllabi
Future Plans	

- Launching of the 'Additional Skill Acquisition Programme'(ASAP) funded by the Govt. of Kerala, meant to tackle the issue of growing unemployability of human resources in the state, by equipping students with industry skills. The Department has consented to cooperate with the Government by floating 180 hours at the first level as a Foundation Module comprising Communicative English and IT in April/May 2013
- National Seminar on 'Re-defining Gender Roles' scheduled for 21-22, March 2013
- International Seminar on Film Studies scheduled for November, 2013 as a platform for sharing and updating information emerged in recent times
- Stage adaptations of a text by students of the department in September, 2013 in association with Kalamandalam Deemed University
- Intercollegiate Poetry Competition in connection with 'Poets' Day' held annually in January and publication of selected poems in a single volume - This project is scheduled for a minor project grant application from the UGC.
- Publication of a Department Journal

The above mentioned future progammes are envisaged in all earnestness, along with the many regular ongoing activities of the department such as Minor Project, Faculty Exchange Programme, Extension activities, Outreach Programmes, Certificate Course, Manuscript releases and Endowment Lectures.

Evaluative Report of Department of History

1. Name of the Department	History		
2. Year of Establishment	1964		
3. Names of Programmes/Courses Offered(UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	BA History	
4. Names of Interdisciplinary courses and departments involved	Modern Indian History (Economics) Social and Cultural History of Britain (English Literature) History of Journalism (History)		
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG		
6. Participation of the department in the courses offered by other departments	Participation of students in open courses offered by various Departments like Economics, English, Bio-Technology, Physical Education, Maths etc.		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8. Details of courses/programmes discontinued (if any) with reasons	Nil		

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	-	-
	Associate Professors	-	-
	Asst.Professors	3	1

10. Faculty Profile

Name	Qualification	Designation	Specialization
Ms.Sumina M S	MA, BEd	Assistant Professor & HOD	-
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	6 Months	-	
Ms.Babita Antony	MA,MPhil,BEd	Adhoc Faculty	-
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	12	-	
Ms.Megha.K.V.	MA,BEd	Adhoc Faculty	-
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	4	-	
Ms.Jiny Zacharia	MA,BEd	Adhoc Faculty	-
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1	-	

11. List of senior visiting faculty	• Prof.Mrs.Annie Jose • Dr.Sr.Clerissa

	• Dr.Sr.Lissitta • Dr.Sr.Resmi (Rtd. HODs of Dept. of History, St.Joseph's College, Irinjalakuda.)										

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (in %)

	2007-08	2008-09	2009-10	2010-11	2011-12
	50%	75%	75%	75%	100%

13. Student Teacher Ratio (programme wise)	UG	PG
	45:1	-

14. Number of academic support staff (technical) and administrative staff	Nil

15. Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	MA History-3 MPhil -1

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil

17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	UGC	50,000/-
	DST-FIST	

18. Research Centre/Facility recognized by the University	Nil

19. Publications :

    a) **Publication per faculty**
    b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
    c) **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
    d) **Monographs**
    e) **Chapter in Books**
    f) **Books Edited**
    g) **Books with ISBN/ISSN numbers with details of publishers**
    h) **Citation Index**
    i) **SNIP**
    j) **SJR**
    k) **Impact factor**
    l) **h-index**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l
Dr. Sr.Resmi	2	2				2							
Mrs. Marykutty	1												
Mrs. Babita	1												

Ms. Safeela V S	1												

20. Areas of Consultancy and Income Generated :

Consultancy services to Higher Secondary School teachers & students

21.Faculty as members in
a)National committees b)International Committees c)Editorial Boards.

National committees	Ms. Sumina M S -Annual Member(Indian History Congress)
International Committees	
Editorial Boards	

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**	a)2007-08----100% 2008-09--- 100% 2009-10-- 100% 2010-11--- 100% 2011-12--- 100%

23.Awards/Recognitionsreceivedbyfacultyandstudents:

- Jithalakshmi T V(**1**st Rank, 2009)
- AswathyV.Mohandas (**2**nd Rank, 2008)
- Pravitha K P (**2**nd Rank 2010)
- Jeena Mathew (IBA) - International player (2010)
- Swathy Babu P - First Prize Winner in International Karate Championship (2011)
- Ardhra M K - National Volleyball Player (2011)
- Richu Mary Thankachan - Junior National Player (2010)
- Mithu Monica Abraham -Youth South Zone Player (2011)
- Calicut University Players - Richu Mary Thankachan, Mithu MonicaAbraham Lincy E, Neethu P Rose, Ardhra M K (Volleyball)

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Dr. K Chandran	Associate Professor, Research Guide Christ College, Irinjalakuda
Dr. N J Francis	Reader, Sree Sankaracharya Sanskrit University, Kalady
Prof. Devi E H	Rtd. Principal, KKTM Govt.College, Kodungallur
Ms. Roshni Swapna	Adhoc Faculty, St.Alosius College, Thrissur
Dr. K T Thomas	Rtd HOD, Research Guide Dept. of History, Christ College, Irinjalakuda

25.Seminars/ Conferences/Workshops organized & the source of funding   NIL

26.Student profile programme/course wise

Year	Applications received		Selected		Enrolled		Pass percentage	
	UG	PG	UG	PG	UG	PG	UG	PG
2007-08	501		60+1*		53		100%	

2008-09	397		60+1*		54		100%	
2009-10	500		60		56		98%	
2010-11	386		58		55		90%	
2011-12	500		60		53		96%	
* Lakshadweep								

27.Diversity of Students	Students from the State	Students from other States	Students from other countries
2007-08 2008-09 2009-10 2010-11 2011-12	99% 99% 99% 100% 100%	1% 1% 1% - -	-

28.How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		2009		2010		2011	
JRF	SET	JRF	SET	JRF	SET	NET	SET
-	-	-	-	-	1	4	-

29.Student progression

Student Progression	Against % enrolled				
	2007-08	2008-09	2009-10	2010-11	2011-12
UG to PG	56%	48%	50%	60%	58%
PG to MPhil					
PG to PhD					
PhD to Post Doctoral					
Employed • Campus selection • Other than campus					
Entrepreneurship/Self-employment	6%	6%	10%	8%	8%

30.Details of Infrastructural facilities :

- Departmental Library (600 Books)
- Internet facility
- LCD Projector, One Class Room with ICT facility (Room No.223)
- Historical Museum with Antiques

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	26		8
2008-09	16		14

2009-10	10		10
2010-11	9		2
2011-12	10		4

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

- Regional Seminars
- Invited talks in relation to various National and International Days
- Quiz and Essay competitions
- Visit to Archeological Sites

33.Teaching methods adopted to improve student learning:

1) Lecture Series 2)Seminars 3)Assignments 4)Projectwork 5)Group discussion 6) Learner centered methodology followed with ICT

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

- Philanthropic Work
- Peace March
- Observing Non-Violence Day, Historical site visits
- Celebrated Keralapiravi with destitutes of neighboring institutions

35.SWOC analysis of the department and Future plans

Strengths	- Department Library - House of Heritage - Talented and dedicated teachers - Unity and co operation among the students - Industrious sports students
Weakness	- Insufficient permanent faculty - Student drop-out
Opportunities	- Appointment of regular staff - Expansion of tutorial hours - Awareness classes to the parents of school students about the scope and importance of history
Challenges	- Insufficient number of regular faculty - Lack of English proficiency for students - Special attention and concessions in internal exams necessary for sports students

Future Plans

- Post Graduate programme in History
- Conduct a National Seminar on "Writing Local History" on 13-03-2013
- To offer Diploma in Tourism
- Workshops on Tourism and Human Rights

Evaluative Report of Department of Mathematics

1. Name of the Department	Mathematics (Comprising Statistics and Computer Applications)		
2.Year of Establishment	1964		
3.Names of Programmes/Courses Offered(UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	BSc Mathematics	
	PG	• MSc Mathematics • MSc Cyber Security (UGC Sponsored Innovative Course from 2007)	
	PhD		
4. Names of Interdisciplinary courses and departments involved	MSc Cyber Security		
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG & PG		
6. Participation of the department in the courses offered by other departments	UG - Economics		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8. Details of courses/programmes discontinued (if any) with reasons	PG Diploma in Cryptography course has been converted into MSc Cyber Security – preference of PG degree over PG diploma		

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	-	-
	Associate Professors	7	7
	Asst.Professors	3	3
	Adhoc	3	3

10. Faculty Profile

Name	Qualification	Designation	Specialization
Dr.Rani M J	MSc, MPhil, PhD	Associate Professor & HOD	Fuzzy Lattices
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	31	-	
Ms.Annie Joseph K	MSc, BEd	Associate Professor	Algebra
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	31	-	
Dr.Philomina M T	MSc, MPhil, PhD	Associate Professor	Topology, Frames
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	31	-	
Dr.Mangalambal N R	MSc, PhD	Associate Professor	Topology
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	26	6	

Dr.Lilly P L	MSc, BEd, MPhil, PhD	Associate Professor		Lie Algebra
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	21	5		
Ms.Lilly T I	MSc, BEd	Associate Professor		Semi Rings
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	16	-		
Dr.Lissy Anto P	MSc, BEd, MCA, MPhil, PGDCA,PhD	Associate Professor		Bioinformatics
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	18	-		
Sr.Siji P D	MCA, MPhil	Assistant Professor		Computer Science
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	4	-		
Mr.Varghese George	MSc	Assistant Professor		Statistics
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	1	-		
Ms.Jeema Jose	MSc, BEd, MPhil	Assistant Professor		Intersection Graphs
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	4 months as on 31-12-2012	-		
Ms.Sreerasmi I K	MSc, BEd	Guest Faculty		Algebra
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	3	-		
Ms.Anaswara Davis	MSc	Guest Faculty		Computer Science
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	2	-		
Ms.Neethu Tressa	MSc	Guest Faculty		Computer Science
	No. of Years of Experience	No. of PhD Students guided for the last 4 years		
	1	-		

11. List of senior visiting faculty	- Prof. T Thrivikraman (CUSAT) - Dr. P T Ramachandran (University of Calicut) - Dr.Arasu K T (Wright State University, USA) - Prof. M Sethumahdavan (Amrutha University)

12.Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (in %)

	2007-08	2008-09	2009-10	2010-11	2011-12
Statistics:	100	100	100	100	100
Computer Science	100	100	100	50	50
Mathematics	25	22.2	12.5	12.5	25
Cyber Security	100	100	100	100	100

13. Student Teacher Ratio (programme wise)	UG	PG		PhD
		Mathematics	Cyber Security	
	12:1	4:1	6:1	5:1

14. Number of academic support staff (technical) and administrative staff	1

15.Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PhD-5 (4 with MPhil) MPhil-2 PG- 6

16.Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	• National- 4 (Total Rs 4,80,000) • International - Nil

17.Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	UGC	27.5 lakhs
	DST-FIST	3.6 lakhs
	UGC (for Cyber Security)	31,14,080

18.Research Centre/Facility recognized by the University	Research Centre approved by University of Calicut as per order no. CDC/B1/3355/2001 dated 29-11-2002

Research Supervisor	Conferred	Submitted	Ongoing
Dr. Lilly P L	-	1	4
Dr. Mangalmbal N R	2	-	4

19.Publications :

  a) **Publication per faculty**
  b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
  c) **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
  d) **Monographs**
  e) **Chapter in Books**
  f) **Books Edited**
  g) **Books with ISBN/ISSN numbers with details of publishers**
  h) **Citation Index**
  i) **SNIP**
  j) **SJR**
  k) **Impact factor**
  l) **h-index**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l

Dr. K V Geetha	7	-	7	-	-	-	-	-	-	-	-	5.08	-
Dr. Rani M J	9	1	8	-	-	-	-	-	-	-	-	7.7	-
Dr. Philomina M T	4	-	4	-	-	-	-	-	-	-	-	-	-
Dr. Mangalambal N R	16	-	16	-	-	-	-	-	-	-	-	8.16	-
Dr. Lilly P L	18	-	18	-	-	-	-	-	-	-	-	-	-
Dr. Lissy Anto P	14	3	11	-	-	-	-	-	-	-	-	-	-
Ms. Lilly T I	1	1	-	-	-	-	-	-	-	-	-	-	-
Sr. Siji P D	3	-	3	-	-	-	-	-	-	-	-	-	-

20. Areas of Consultancy and Income Generated

- Co-guideship for PhD
- Guideship for Funded projects
- MPhil/PhD Evaluation & External Examiner of the PhD Theses
- PG/ MPhil Question paper setting (for other Universities)
- Reviewer of International Data Bases- AMS, ZentralblattMath
- Organizing of workshops/seminars with support from NBHM/IMU/WIPRO /DST
- Centre for Regional Mathematical Olympiad and All India Madhava Mathematical Competition

21.Faculty as members in
a)National committees b)International Committees c)Editorial Boards.

National committees	- Dr.Geetha K V-Joint Secretary (KMA) - Dr.Rani M J-Area Chair Person of Region of Lioness Club - Six faculty members -Presiding Officers of State Legislative Assembly and Panchayat Election - Dr.Philomina M T, Ms.Lilly T I - NSS Programme Officers
International Committees	Dr.Mangalambal N.R- Reviewer , AMS,Zentralblatt Math, Membership in Ramanujan Mathematical Society Dr. Lilly P L, Reviewer , AMS
Editorial Boards	Dr.Mangalambal N.R-Academic Editor of Bulletin of KMA (ISSN -0973-2721)

22.Student projects a)Percentage of students who have done in-house projects including inter departmental/programme	100%
b)Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	One student obtained **'Inspire Scholarship'**project(for mathematics) 100% (for Cyber Security)

23.Awards/ Recognitions received by faculty and students

- Pavanatma Educational Society Award for the Best Researcher (Science)-
  Dr. Rani M J (2007), Dr. Lilly P L (2009,2010), Dr.Mangalambal N R (2012)
- Pavanatma Educational Society Award for Best Teacher-
  Dr. Lilly P L(2011), Dr. Mangalambal N R (2012)
- Appreciation award for Best Area Chairperson (Lions club)-Dr. Rani M J
- Appreciation for the Coordinatorship of Lecture workshop(Indian Academy of Sciences,
  Bangalore)- Dr.Mangalambal N R
- 'Inspire Scholarship' Award-Aparna C M (UG)
- Best Debugger Award(State Level) - Sreelakshmy P (MSc Cyber Security)

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Dr. Jennifer Seberry	Professor, Wolfgang University Australia
Dr. Bhamini M.P Nair	Morgan State University, USA
Dr. Parameswaran Sankaran	Institute of Mathematical Science, Chennai
Dr. Rabi Nanda Bhaumik	Tripura University
Dr. V Kannan,	University of Hyderabad
Dr. A.K. Nandakumar	Professor, IISc, Bangalore
Dr. E.K. Narayanan	Professor, IISc, Bangalore
Dr. S. Thankavelu	Professor, IISc, Bangalore
Dr. Gautham Bharali	Professor, IISc, Bangalore
Dr. Kaushal Varma	Professor, IISc, Bangalore
Prof. M.S. Chaudhari	Shivaji University, Pune
Dr. Sabu M Thampi	Professor, IIIT, Kerala
Dr. M P Sebastian	Professor, NIIT, Calicut
Mr. Kandasamy Munisamy	Senior Director, SEMANTEC
Mr. Thamizhiniyan Natarajan	Manager-Development, SEMANTEC
Dr. M P Sethumadhavan	Professor, Amritha Viswavidyapeedam, Coimbatore
Dr. John A B	Professor, TIFR, Mumbai
Dr. Veni Madhavan	Professor, IISc, Bangalore
Prof. Vidit Baxi	CTO, Lucideus Tech, New Delhi
Mr. Harindran Nair	CEO, NEST, Trivandrum
Dr. Uma Maheswari	Associate professor,Chennai
Commodore Jaison Thomas	Chief Commanding Officer, Cochin
Mr.Balamurali	Senior SQA Manager, NEST, Trivandrum

25.Seminars/ Conferences/Workshops organized & the source of funding		
	Event & Date	**Funding Agency**
National	National Workshop on Cryptography, 13-14 Aug 2007	Department
	Lecture Workshop on Some Topics in Functional Analysis and Several Complex Variables, 4-6 Jan 2011	Indian Academy of Sciences, Bangalore
	Workshop on PC Hardware,15 Mar 2012	Department
	Workshop on Secura-Ethical Hacking, 27-29 Sep 2012	Department
International	International Workshop on Cyber Security, 6-8 Dec 2011	DST & WIPRO
	International Conference on Cybersecurity,9-10, Dec 2011	DST & WIPRO
	Recent Trends in Topology and its Application, 19-21, Mar 2009	National Board of Higher Mathematics & International Mathematics Union
Regional	Workshop on Hadamard Matrices, 4 Dec 2010 Workshop on Combinatorial Design Theory, 7-9 Jun 2011 Workshop on Rings of continuous functions, 18 Jul 2011 Workshop on Gauge Integration, 12 Dec 2011 Workshop on Lie Algebra, 4 Sep 2012 Workshop on Category Theory, 9 Nov 2012	Department

26.Student profile programme/course wise

1.Mathematics

Year	Applications received		Selected		Enrolled		Pass percentage	
	UG	PG	UG	PG	UG	PG	UG	PG
2007-08	695	73	48	20	38	19	95	90
2008-09	739	76	48	20	45	20	97.6	100
2009-10	748	79	48	20	42	16	97.8	91.6
2010-11	504	83	48	20	47	12	93.47	83.3
2011-12	633	Single Window	48	20	46	18		75

2.PG Diploma in Cryptography

Year	UG	PG	UG	PG	UG	PG	UG	PG
2007-08	-	15	-	9	-	5	-	100

3.MSc Cyber Security

2009-10		20		15		12		100
2010-11		20		9		9		NA
2011-12		8		5		3		NA

27.Diversity of Students	Students from the State	Students from other States	Students from other countries
Mathematics	97%	3%(Lakshadweep)	-
Cyber Security	100%	-	-

28.How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		2009		2010		2011		2012
JRF	SET	JRF	SET	JRF	SET	JRF	SET	GATE
1	2	1	1	2	2	1	2	1

29.Student progression

Student Progression	Against % enrolled				
	2007-08	2008-09	2009-10	2010-11	2011-12
UG to PG	42.2	60	66	90	90
PG to MPhil	15	5	5	10	15
PG to PhD	15	5	5	5	0
PhD to Post Doctoral	0	0	0	0	0
Employed(Mathematics) • **Campus selection** • **Other than campus**	17.7 70	0 65	0 72	0 68	9 80
Employed(Cyber Security) • **Campus selection** • **Other than campus**	- -	- 85		- 8	14 33
Entrepreneurship/Self-employment	5	6	5	8	4

30.Details of Infrastructural facilities

- Library Stock: Books: 352, Journals: 3
- Internet connectivity for Staff & Students
- 3 Class rooms with ICT facility
- Two computer labs with a total of 60 Computer systems and other accessories

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	8	-	82
2008-09	10	-	81

2009-10	5	-	79
2010-11	7	-	84

32. Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

- International Level Seminars - Recent Trends in Topology and its application (2009), Cyber Security(2011),
- 40 Invited Talks given during 2007-2012
- National Workshops on Cryptography(2007) and 'Ehical Secura' (2012)
- Lecture workshop on Some topics in Functional Analysis and Several Complex Variables(2011)

33. Teaching methods adopted to improve student learning:

- Demonstration
- Seminars
- Outreach programme
- Assignments & Projects
- Practical sessions
- Special coaching for advanced learners and slow learners
- Remedial coaching
- Peer group teaching
- Each one teach one programme

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Compulsory Social Service Scheme
- National Service Scheme and NCC
- Participation in socially useful activities like hospital visits, cleaning public places, Consolation support for the destitutes etc.
- Regular visits to the homes for the destitute

35. SWOC analysis of the department and Future plans

Strengths	- ICT enabled learner-centered teaching mode - High rated Research work - Good number of PhD holders in the department - Average eight paper publications per year - National or international seminars every year - High rate of employment - Innovative Course with current relevance (MSc Cyber Security) - Library with more than 300 NBHM books - Good teacher-student relationship
Weakness	- Lack of freedom for scholars of other science disciplines to enroll for research in our centre - Less Extracurricular activities for students in comparison with research oriented activities
Opportunities	Expansion of Consultancy

	• Revision of curriculum(whenever needed) • Linking with government departments and private enterprises that need consultancy
Challenges	• Heavy syllabus leading to lack of time for giving personal attention to students • Strengthening collaborative and interdisciplinary global level research • Technical difficulty for restructuring the course

Future Plans
• Conduct of IMU (International Mathematical Union Germany) sponsored one month VLP (Voluntary Lecture Programme) for PG students once a year • Interdisciplinary major project in Bioinformatics • UGC sponsored International Seminar and awareness programmes on Cyber Security • Expansion of Consultancy services • Interdisciplinary research in the cutting edge areas of Mathematics, Statistics and Computer Science

Evaluative Report of Department of Physics

1. Name of the Department	Physics		
2. Year of Establishment	1964		
3. Names of Programmes /Courses Offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	BSc Degree Programme (Physics Core)	
4. Names of Interdisciplinary courses and departments involved	Chemistry (Complementary course)		
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG		
6. Participation of the department in the courses offered by other departments	Our students participate in courses offered by Dept. of Economics, Commerce, Mathematics, Computer Science, Botany, English, Hindi, Malayalam and in Add-on course of Physical Education Department.		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil		
8. Details of courses/programmes discontinued (if any) with reasons	Nil		

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	-	-
	Associate Professors	2	2
	Asstistant Professors	2	1
	Adhoc faculty	-	1

10. Faculty Profile

Name	Qualification	Designation	Specialization
Ms. Gracymma Joseph	MSc, MPhil	Associate Professor	Electronics
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	29	-	
Dr.Sr. Anee T.K.	MSc, MPhil, PhD	Associate Professor & Principal	Nanomaterials (PhD)
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	28	-	
Ms. Tresa K.R.	MSc	Associate Professor	Electronics
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	25	-	
Ms. Mary Gisby	MSc, MTech	Assistant Professor	Optoelectronics and

Poulose			Optical Communication (MTech)
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	5 months	-	
Ms. Sikha Simon K.	MSc	Adhoc Faculty	Electronics
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	7 months	-	

11. List of senior visiting faculty	Ms. Eliyamma Varunny, Mr. Francis Pullockaran, Sr. Annie James

12.Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (in %)

Year	2007-08	2008-09	2009-10	2010-11	2011-12
%	50	50	50	50	50

13. Student Teacher Ratio (programme wise)	UG
	10:1

14. Number of academic support staff (technical) and administrative staff	1

15.Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PhD – 1(with MPhil) M. Phil – 1 PG – 3

16.Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	Nil (Applied for a minor project)

17.Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Nil

18. Research Centre/Facility recognized by the University	Nil

19.Publications :
- a) **Publication per faculty**
- b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
- c) **Number of publications listed in International Database (For Eg: Web of Science, Scopus, And Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- d) **Monographs**
- e) **Chapter in Books**
- f) **Books Edited**
- g) **Books with ISBN/ISSN numbers with details of publishers**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l
h) Citation Index **i) SNIP** **j) SJR** **k) Impact factor** **l) h-index**													
Ms.Gracymma Joseph	3	-	-	-	-	-	-	-	-	-	-	-	-
Ms. Tresa K.R.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ms. Mary Gisby Poulose	1	-	-	-	-	-	-	-	-	-	-	-	-
Ms. Shikha Simon K.	2	-	-	-	-	-	-	-	-	-	-	-	-

20. Areas of Consultancy and Income Generated

- Designing of Secondary and Higher Secondary level projects in Physics
- Assistance in Science and Technological exhibitions
- Organizing competitive exams in Physics for College students
- Honorary Service was provided

21.Faculty as members in
a) National committees b) International Committees c) Editorial Boards.

National committees	Ms. Gracyamma Joseph • Life member of IAPT • Presiding Officer at Kerala Panchayath Election (2010) Dr.Sr.Anee T.K. • Life Member of Indian Association of Crystal Growth • Member of Indian Crystallographic Association • Life member -Indian Association of Physics Teachers • General Convener, Janamaithri Ms. Tresa • Presiding Officer at Kerala Panchayath Election (2010)
International Committees	-
Editorial Boards	Dr.Sr.Anee T.K.-International Journal of Nanomaterials and Technology.

22. Student projects a) Percentage of students who have done in-house projects including inter departmental/programme	100% in BSc Degree Programme (Physics Core)
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	-

23.Awards/ Recognitions received by faculty and student
• Our faculty served as Presiding officers at Panchayath election in the year 2010.
• Remya Ramdas, Vinni Vasu, Tresa C John and Nusrin Habeeb secured first place in State level quiz competition (2009)
• Asha Gopi won first prize in Smart student shopper contest (2010)
• Anjumol K Anto got Second prize in interzone football tournament (2010-2011)
• Binimol K.B and Asha Gopi got consolation prize in Kerala state level energy conservation quiz held at SH College, Chalakudy (11/12/2009)
• Sincy Xavier got the Best NCC Cadet Award in the year 2011

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
1. Mr. Inassu C.A.	Associate Professor, Department of Physics, St. Thomas College, Thrissur (2007).
2. Mr. U.A. Raphael	Retired Professor, Department of Physics, St. Thomas College, Thrissur (2008, 2009)
3. Mr. Arun	Assistant Professor, Govt. Engineering College, Palakkad (2010, 2011).

25.Seminars/ Conferences/Workshops organized & the source of funding: Nil

26.Student profile programme/course wise

Year	Applications received	Selected	Enrolled	Pass percentage
	UG	UG	UG	UG
2007-08	501	32	29	94
2008-09	485	40	27+1*	84
2009-10	791	39+1*	27	100
2010-11	524	39+1*	36	93
2011-12	745	40	30	88

* - Reservation for Lakshadweep Students.

27.Diversity of Students	Students from the State	Students from other States	Students from other countries
07-08	100	0	-
08-09	100	0	-
09-10	100	0	-
10-11	96	4	-
11-12	100	0	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		2009		2010		2011	
JRF	SET	GATE/JRF	SET	JRF	SET	JRF	SET
1	-	1	-	-	-	-	-

29.Student progression

Student Progression	Against % enrolled					
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
UG to PG	36.5	64.5	78	63	50	65.5
PG to MPhil	-	-	-	-	-	-
PG to PhD	-	-	-	-	-	-
PhD to Post Doctoral	-	-	-	-	-	-
Employed • **Campus selection** • **Other than campus**	- 3	- -	- 7	4 -	- -	55 -
Entrepreneurship/Self-employment	-	-		-	-	

30.Details of Infrastructural facilities

- Laboratory facilities of Department of Physics include a BSc Main Lab with Spectrometer Room, a B.G. room and BSc Subsidiary Lab with adjoining Computer room
- Well-equipped laboratory with CRO's, Function Generator, regulated power supplies, IC-trainers, computers, OHP and LCD projector and Power Amplifier
- The Department and three classrooms enjoy the common facilities of the college
- Departmental Library acts as a book bank, which includes text book for main and subsidiary, general dictionaries, Physics Dictionaries and other General Physics related books
- Subscription to the journal, IAPT JOURNAL
- Department possesses an OHP, LCD Projector, a cordless Mike with power amplifier, CD Player and FM Radio
- Reprographic facilities provided by the college

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	6	-	-
2008-09	5	-	1

2009-10	9	-	1
2010-11	9		2

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

- Enrichment course – 'Maintenance of Electronic and Electrical Equipments' handled by Mr. P.I. Thomas, LUNA Institute, Irinjalakuda
- Quiz and Debates
- Remedial coaching and Peer group teaching

33.Teaching methods adopted to improve student learning:

- ➢ Lecture methods
- ➢ Presentations using O.H.P. & L.C.D. on special topics
- ➢ Seminars, assignments and quiz

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

- ➢ Exhibitions
- ➢ State level quiz
- ➢ Tuition to students of nearby schools
- ➢ Fund raising programmes, Visits to Old-age homes
- ➢ Visit to students' homes

35.SWOC analysis of the department and Future plans

Strengths	- Standard infrastructural facilities - Effective tutorial system - Strong teacher- student relationship - Certificate course 'Maintenance of Electronic and Electric Equipments' help students to be self-sufficient in electrical needs
Weakness	- Delay in sanction of permanent appointments by the government - Lack of advanced laboratory equipments
Opportunities	- Certificate course can be developed into a Diploma course - Internet, library and e-database offer ample opportunities for students to go beyond the syllabus
Challenges	- Limited student progression to higher level courses - Filling up the permanent vacancy in the Department with competent teachers

Future Plans

- P.G course in Physics with specialization in Electronics, Crystal Growth or Computer Applications
- More Job-Oriented Enrichment Programmes
- More Major and Minor Projects
- International and National seminar, Workshops
- JEST, NET-JRF coaching

Evaluative Report of Department of Mass Communication and Journalism

1. Name of the Department	Mass Communication and Journalism		
2. Year of Establishment	2005		
3. Names of Programmes /Courses Offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	PG	MCJ	
4. Names of Interdisciplinary courses and departments involved	NIL		
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS)		
6. Participation of the department in the courses offered by other departments	NIL		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	NIL		
8. Details of courses/programmes discontinued (if any) with reasons	NIL		

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Associate Professors	-	-
	Assistant Professors	-	-
	Adhoc Faculty	3	3

10. Faculty Profile

Name	Qualification	Designation	Specialization
Ms. Divya B	MCJ	HOD	Editing
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	2	-	
Ms.Steny Joseph V J	MCJ	Faculty	Advertising
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	2	-	
Ms. Premy	MSc, BEd	Faculty	Statistical Analysis
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	7	-	

11. List of Senior visiting faculty	Dr.C. D. Chakkappan (Department Head from 2005 – 2012, Formerly Research Guide and Head, University of Calicut – guided four research scholars in the past four years) Fr.Jomy Thottiyan (MCJ)

12.Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (in %)

	2007-08	2008-09	2009-10	2010-11	2011-12
	100%	100%	100%	100%	100%

13. Student Teacher Ratio (programme wise)	PG – 8:1
14. Number of academic support staff (technical) and administrative staff	1
15. Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PG-3
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	NIL

17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	NIL	
	Department	

18. Research Facility / Centre with recognized by the University	Nil

19. Publications :

    a) **Publication per faculty**
    b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
    c) **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
    d) **Monographs**
    e) **Chapter in Books**
    f) **Books Edited**
    g) **Books with ISBN/ISSN numbers with details of publishers**
    h) **Citation Index**
    i) **SNIP**
    j) **SJR**
    k) **Impact factor**
    l) **h-index**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l
Dr.C D Chakkappan		1											

20. Areas of Consultancy and Income Generated

- Extension lectures for plus two and college students and teachers
- Consultancy regarding the production of on-line magazine of Irinjalakuda Diocese & Parish Bulletin, Dr. C D Chakkappan – Question paper setter JAIN University, Bangalore, Member Board of Studies and Board of Faculty, University of Calicut, Technical advisor ro 'Catholicasabha', newspaper of Thrissur Diocese

21. Faculty as members in
  a) National committees b) International Committees c) Editorial Boards

National committees	Nil
International Committees	Nil
Editorial Boards	4

22. Student projects a) Percentage of students who have done in-house projects including inter departmental/programme	100% (PG students have undertaken projects as part of their curriculum)
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	NIL

23.Awards/ Recognitions received by faculty and students

- Dr.C D Chakkappan (faculty) National Gaurav Award 2005
- Swetha Sundharan got selected in Nalanda Nirtholsava in Mumbai 2011
- Abitha K A secured Gold Medal in the state Archery Championship 2011
- Soumya Vincent (MCJ Student) Sammoohya Darshan Award 2009
    University I Rank Reeju Jayadev 2009
    University II Rank Raji Gregory
    University III Rank Ansa Jose
    University II Rank Priya Prahaladhan 2010
    University III Rank Veena P

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Dr. Nirmal Jacob	Senior faculty in Jain University
Mr. Christo Jacob	Managing Editor, Sylicon India, Bangalore
Mr. Roy Mathew	Journalist, The Hindu
Mr. Joe Chalissery	Production Manager, Shalom TV
Mr. K A Kuriakose	News Editor, Malayala Manorama
Fr. Benny	Director, Chethana Media Institute
Ms.Leela Menon	Editor, Kerala Mid Day Times
Dr. Natarajan	Prof.M.S University,
Dr. Sukumar Azhikode	Indian writer, critic and orator
Mr.Sahadevan	News Editor, India vision
Mr.Paul Manalil	Asst.Editor, Manorama year Book
Mr.Jyothir Ghosh	News Editor, Mathrubhumi
Mr.Sreekumar	Former Reporter, Mangalam
Mr.Laurie Goodstein	Religion correspondent, Newyork Times
Mr.James Estrin	Staff photographer, Newyork Times
Mr. Jose kutty Panakkal	Senior photographer, Malayala manorama

Mr.Manoj Das	Resident Editor, New Indian Express
Dr.Sebastian Paul MP	Senior journalist, Member of Parliament and Popular media critic
Dr.Methil Devika	Renowned classical dancer & Faculty, Kerala Kalamandalam
Mr. Mala Aravindhan	Renowned Malayam theatre & Cine artist

25.Seminars/ Conferences/Workshops organized & the source of funding

	Event & Date	Funding Agency
National/ International	NIL	
Regional	- Workshop on News presentation in Electronic Media, 17Jun 2008 - Seminar on Women and Media,16 Nov 2008 - Workshop on Sound Engineering 21 Oct 2009 - Seminar on Photo Journalism,11 Dec 2009 - Seminar on Development Journalism 16 Jan, 2010 - Seminar on Feature Writing , 23 Sep 2010 - Seminar on Parliamentary reporting and Web journalism, 30 Nov 2010 - Seminar on the Communication aspects of Natyasastra, 11 August 2011	Dept of Journalism and Mass communication

26.Student profile programme/course wise

Year	Applications for merit seats are received in the University	Selected(both management and merit seats)	Enrolled	Pass percentage
	PG	PG	PG	PG
2007-08	40	09	09	100%
2008-09	35	12	12	100%
2009-10	35	07	07	100%
2010-11	30	12	12	100%
2011-12	35	07	07	100%

27.Diversity of Students		Students from the State	Students from other States	Students from other countries
		100%	NIL	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		**2009**		**2010**		**2011**	
NET	SET	JRF	SET	JRF	SET	NET	SET
2	-	-	-	1	-	1	-

29.Student progression					
Student Progression	**Against % enrolled**				
	2007-08	**2008-09**	**2009-10**	**2010-11**	**2011-12**
Employed • Campus selection • Other than campus	- 100%	- 100%	- 100%	- 100%	- 100%

30.Details of Infrastructural facilities

Computer-6, scanner with printer-1, LCD-1, Video camera-1, CD player-1, Editing machine-1, class rooms-2, Lab-1, Reading room (Department Library) -1, Shelf-2

31.Number of students receiving financial assistance from college, university, government or other agencies: NIL

32. Details on student enrichment programmes (special lectures/workshops / seminar) with external experts.

- Workshop on News presentation in Electronic Media
- Workshop on Sound Engineering
- Seminar on the Communication aspects of Natyasastra
- Seminar on Photo Journalism
- Seminar on Feature Writing
- Workshop on Production Techniques
- Two day photo &Newspaper Exhibition
- Three day Film Festival

33.Teaching methods adopted to improve student learning:

Lecturing, Seminars, Power Point Presentations, Debates etc.

34.Participation in Institutional Social Responsibility (ISR) and Extension activities:

Conduct rally and awareness programmes on relevant social issues especially gender and environment; Documentation of events in this institution; Reporting to journals; Participated in the production of Insider - a short film by the College

35.SWOC analysis of the department and Future plans

Strengths	• Relevant Syllabus with exposure to all forms of media • 100% University results • 100% Job oriented course with 100% placement • Practical knowledge in handling camera & newspaper production.
Weakness	• No regular Staff • University seats are not filled • Lack of Research centre
Opportunities	• Regularisation of Degree courses • Women empowerment through media
Challenges	• Lack of funds for new ventures • University seats are not filled • Low strength of the class

Future Plans
- Open up a certificate course on Media management   - Conducting National-International Seminars   - Producing a small budget film

Evaluative Report of Department of Social Work

1. Name of the Department	Social Work		
2.Year of Establishment	2002		
3.Names of Programmes/Courses Offered(UG,PG,MPhil,PhD,Integrated Masters; Integrated PhD, etc.)	PG	Master of Social Work	
4. Names of Interdisciplinary courses and departments involved	NIL		
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS)		
6. Participation of the department in the courses offered by other departments	Yoga Dept. of Physical Education		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	NIL		
8. Details of courses/programmes discontinued (if any) with reasons	NIL		

9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	-	-
	Associate Professors	-	-
	Assistant Professors	-	-
	Adhoc Faculty	5	5

10. Faculty Profile

Name	Qualification	Designation	Specialization
Ms. Saji Jose	MSW, NET	HOD (on leave)	Medical and Psychiatric Social Work
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	10 Years	NIL	
Dr. Jessy K C	MSW, PhD	Head in charge	Rural and Urban Community Development
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	10 Years	NIL	
Ms. Laisa Paul	MSW	Adhoc Faculty	Medical and Psychiatric Social Work
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1 Year	NIL	
Ms. Priya Antony	MSW	Adhoc Faculty	Rural and Urban Community Development
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1 Year	NIL	

Ms. Roal Roy	MSW	Adhoc Faculty	Medical and Psychiatric Social Work	
	No. of Years of Experience		No. of PhD Students guided for the last 4 years	
	1 Year		NIL	
Ms. Resmi Ramachandran	MSW	Field Work Coordinator	Rural and Urban Community Development	
	No. of Years of Experience		No. of PhD Students guided for the last 4 years	
	1 Year		NIL	

11. List of Senior visiting faculty	Ms. Premy Sunny	Quantitative Methods in Social Work Research

12.Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (in %)

	2007-08	2008-09	2009-10	2010-11	2011-12
	100%	100%	100%	100%	100%

13. Student Teacher Ratio (programme wise)	UG		PG	
	-		8:1	

14. Number of academic support staff (technical) and administrative staff	1

15.Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PhD - 1 PG - 4

16.Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	NIL

17.Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	UGC	Rs.30,000/-
	KSACS	Rs.4,000/-

18.Research Centre/Facility recognized by the University	NIL

19.Publications :

    a) **Publication per faculty**

    b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**

    c) **Number of publications listed in International Database (For Eg: Web of Science, Scopus, And Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**

    d) **Monographs**

    e) **Chapter in Books**

    f) **Books Edited**

    g) **Books with ISBN/ISSN numbers with details of publishers**

    h) **Citation Index**

    i) **SNIP**

    j) **SJR**

    k) **Impact factor**

    l) **h-index**

Faculty	a	b1	b2	c	d	E	f	g	h	I	j	k	l
Dr.Jessy. K.C	4						1						
Ms.Laisa Paul	1												

20. Areas of Consultancy and Income Generated

Areas of Consultancy	Income Generated
• Social Analysis through Participatory Rural Appraisal (PRA), Aloor Gram Panchayat, 2009	Rs.20,000/-
• Social Analysis through PRA, Nilamboor Forest Division, 2009	Rs.25,000/-
• Social Analysis through PRA, Nilamboor Forest Division, 2010	Rs.25,000/-
• Monitoring of Crèches with the Collaboration of Peermade development Society (Centrally Sponsored Project), 2010	Rs. 7,000/-
• Women Empowerment through Kudumbasree-Research Guidance, Bharatihiyar University, 2011	Rs. 2,000/-
• Social Analysis through PRA, Peechi Forest Division, 2011	Rs. 4,000/-
• Health Status of Women in Tribal Areas, Annamali University, 2012	Pursuing

21.Faculty as members in
   a) National committees b) International Committees c) Editorial Boards.

National committees	Nil
International Committees	Nil
Editorial Boards	Nil

22. Student projects a) Percentage of students who have done in-house projects including inter departmental/programme	100%
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies	70% (In addition to in-house projects)

23.Awards/ Recognitions received by faculty and students

- University First Rank, Soumya Mohan-2010
- Second prize in Poster making in Spectra'09, Kuttikanam

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Mr.Rajeev S.R	International Trainer, Rajagiri College of Social Sciences
Mrs. Ashalakshmi	Researcher, Karyavattom Campus, Trivandrum
Dr. Kumaran	Associate professor, Dept. of Sociology, GRU,Tamilnadu
Mr.Karthik	Trainer of AURA , Kollam
Mr.Chandran	Rtd.Professor, Kerala Sastra Sahithya Parishath

25.Seminars/ Conferences/Workshops organized & the source of funding

Event & Date	Funding Agency

National	Farmers Suicide and Agriculture relations in Kerala		UGC
International	NIL		

26.Student Profile Programme/Course Wise

Year	Applications for merit seats are received in the University		Selected(both management and merit seats)		Enrolled		Pass percentage	
YEAR	UG	PG	UG	PG	UG	PG	UG	PG
2007-08		86		16		16		100%
2008-09		89		18		17+1*		100%
2009-10		85		18		18		100%
2010-11		90		14		14		100%
2011-12		75		20		18		100%

*Lakshadweep

27.Diversity of Students	Students from the State	Students from other States	Students from other countries
2007-08	100%		
2008-09	94%	6% (Lakshadweep)	
2009-10	100%		
2010-11	100%		
2011-12	100%		

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		2009		2010		2011	
NET	SET	JRF	SET	JRF	SET	NET	SET
3	-	-	-	-	-	1	-

29.Student progression

Student Progression	Against % enrolled				
	2007-08	2008-09	2009-10	2010-11	2011-12
PG to MPhil	-	-	-	-	-
PG to PhD	6.25	-	-	-	6.25
PhD to Post Doctoral	-	-	-	-	-
Employed • Campus selection • Other than campus	- 81.25	- 83	- 89	- 93	- 100

Entrepreneurship/Self-employment	18.75	16.6	11	7	-

30.Details of Infrastructural facilities

(a)Dept. Library – 150 Books   (b) Classrooms -3   (c) LCD-1   (d) OHP -1
(e)Dept.P.C– 3   (f) Dept Laptop- 1   (g) Printer -1   (h)Audio Recorder-1
(i) Digital Camera-1

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	1	-	1
2008-09	1	-	1
2009-10	1	-	1
2010-11	2	-	1

32. Details on student enrichment programmes (special lectures/workshops / seminar) with external experts.

Year	Programme	Topic	External Expert
2008 & 2012	Induction Programme	Goal setting	Mr.Rajeev S.R, Subject expert in CAS, Rajagiri College of Social Science
2008	Induction Programme	Good Governance	Mrs. Ashalakshmi, Researcher, Karyavattom Campus, Trivandrum
2010	Induction Programme	School Camp	Mr.Chandran, Professor, Kerala Sastra Sahithya Parshath
2010 & 2012	Induction Programme	Team work &Personality Development	Mr. Karthik from • Gandhigram Rural University, TN (2010) • GRILS (2012)

33.Teaching methods adopted to improve student learning:

Lecturing, Focused Group Discussions (FGD), Brainstorming, Seminars, PPT, Exposure visit, Study Tour & Internship State/National Level, Incident process, Training programme

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

Awareness Programmes

2008
- Seminar on Speech Therapy for parents of inmates, CYRENE Special School, Kodunga
- Exhibition on 'Mental Health', Sacred Heart Hospital, Pulloor
- Talk on Psycho- Social Education for Sacred Heart Hospital, Pulloor
- Paper Presentation on Child Issues at St. Joseph's College, Irinjalakuda, 2008

2009
- Talk on 'Environmental Pollution', Vellangalloor Gram Panchayat
- Class on 'Motivation', Asha Bhavan ,Annamanada
- Seminar on Scholastic Backwardness of Children, SOS Children's Village, Mulayam
- Significance of Old Age, House of Providence, Irinjalakuda

2010
- Seminar on Media Influence on Personality at Mathilakam Gram Panchayat
- Seminar on Personality Development for Perinjanam Gram Panchayat
- Documentary Show on 'Our Mother-Earth' for Govt. Children's Home, Thrissur
- Autism- Decreasing Stress and Caring for Parents for Pratheeksha Bhavan Special School –Irinjalakuda
- Awareness Class on Environment Day for Kaipamangalam Gram Panchayat
- Seminar on Personality Development for Porathissery Gram Panchayat
- Class on Personality Development, Aloor Gram Panchayat
- Awareness class on 'Study Tips', Perinjanam Gram Panchayath
- Awareness class on Waste Management, Chalakudy Municipality
- Motivation class for Sadan', Puthenchira
- Adolescent Counselling for Balasabha Students, Vellagalloor Block Panchayat

2011
- Child Labour and Child Rights, Don Bosco & Govt.Boys H.S.S, Irinjalakuda
- 'JEEVA-11' Conscientization Seminar on Life Style Diseases for Kaipamangalam Gramapanchayath
- Class on Counselling and Menstruation, Sadan Puthenchra
- Conscientization on Road Safety, Govt. Girls and Boys High School, Chalakudy
- Strengthening of Balasabha Children for Poyya Panchayath
- Seminar on Alzheimer's Diseases, nearby communities of St.Joseph's College, Irinjalakuda
- Road Show on Anti- Drug Village at Kaipamangalam Gram Panchayath

2012
- Workshop on Family Strengthening at Mulayam, Thrissur, 2012
- Plastic Free Campaign at Athirappilly and Vazachal Forest Division, 2012
- Social Work Students Against Nuclear Energy (SANE), Post Card Campaign, Kudankulam issue by sending 1000 post cards to Prime Minister, Dr.Manmohan Singh, December 2012

Surveys
- Research on Gender Studies at Muriyad Gram Panchayat, 2008
- Health Survey, Kerala Sasthra Sahithya Parishath, 2010.
- Scheduled Cast Socio-economic Status Survey, Porathusserry Grama Panchayath, 2010

Cultural Programmes
- Prepared Vegetable Garden, Asha Bhavan, Annamanada, 2009
- Film Show at Govt .Children's Home, Ramavarmapuram, 2010
- Recreational Programme, Santhi Sadanam, Old Age Home, Irinjalakuda, 2010
- Recreational Programme, Providence Home, Irinjalakuda, 2010
- Elders Day Cultural Programme at Govt. Old Age Home, Thrissur, 2010
- Children's Day Celebration for Balasbha members, Vellookara Grama Panchath, 2010
- Prepared kitchen garden at Govt. Old Age Home, Thrissur, 2011.
- One day picnic to Kaipamangalam beach and St.Joseph's College with differently abled adolescents of Ashabhavan Annamanada, 2011
- Cultural programme at Providence Home, Irinjalakuda, 2011
- Snehotsavam, Asha Bhavan, Annamanada, 2011

Contests	
	➢ Essay and Elocution Competition in connection with Human Rights Day, 2009 ➢ Debate on Men and Nature, Adatt Gram Panchayath, Thrissur on 2010 ➢ Quiz competition, Mala Grama Panchayath, 2010 ➢ Badminton competition, Cyrene Special School, Kodunga, 2010
Observation of Important Days	
	➢ World Population Day- Poster Exhibition, St. Joseph's College, Irinjalakuda,2008 ➢ Observation of Environment Day, 'WED'- Awareness Creation through Posters, St.Joseph's College, Irinjalakuda, 2008 ➢ Children's Day Rally in association with CASP, 2010 ➢ Exhibition Cum Sale in connection with Women's Day, March 8, at St.Joseph's College 2012 ➢ Cleaning programme in association with Govt. Old Age Home, Ramavarmpuram on 2010 ➢ Introduced F.M Radio facility to Govt. Old Age Home Thrissur in connection with Elders Day, 2011 ➢ Exposure visit to Municipal Park with inmates of Providence Home (Old age Home) Irinjalakuda, 2011 ➢ Exhibition in connection with World AIDS Day, St.Joseph's College, Irinjalakuda, 2011

Extension Activities	
	➢ Pain and Palliative Care Unit ➢ Kudumbasree Programmes ➢ Environment Protection Activities ➢ Community Aided and Sponsorship Programme (CASP)

35.SWOC analysis of the department and Future plans

Strengths	• 'SAMASTHA' St. Joseph's Social Work Students' Association • Relevant Syllabus with social commitment • 100% Placement for our students • Strong network with Kerala Forest Department, Govt. and NGO social work agencies • Practical knowledge in research
Weakness	• University seats are not filled • Course being self financed there is no permanent faculty
Opportunities	• Students' paper publications • Expansion of social work activities in more rural and tribal areas
Challenges	• Course being self financed there is no permanent faculty • Lack of funds • Low strength in the class

Future Plans	
	1) PG Diploma Course in NGO Management 2) Consultancy Services-in Social Analysis 3) International Seminar and Social Work Students Meet 4) Research Centre

Evaluative Report of Department of Zoology

1. Name of the Department	Zoology		
2. Year of Establishment	1967		
3. Names of Programmes /Courses Offered(UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)	UG	BSc Zoology	
4. Names of Interdisciplinary courses and departments involved	1) Complementary course in Zoology for Botany core students 2) Offers Open Course in Human Health and Sex Education for all the Vth Semester UG students		
5. Annual/ Semester/choice based credit system(programme wise)	Choice Based Credit & Semester System (CCSS) for UG		
6. Participation of the department in the courses offered by other departments	1. For Ist BSc students-- Certificate course offered by Hindi Dept 2. Open course offered by other departments for Vth Semester (Zoology) students 3. Faculty as resource person of Yoga & Fitness Management – Add-on course by Physical Education Dept.		
7. Courses in collaboration with other universities, industries, foreign institutions, etc.	The department has a certificate course - G operator (computer basics) in collaboration with G-Tech (a Govt. recognized institute) from 2011 onwards		
8. Details of courses/programmes discontinued (if any) with reasons	The department suspended Certificate course on Home management and healthcare from 2011onwards, since we started G operator computer basics to cope up with the new trends in the syllabus i.e bioinformatics in the IIIrd semester.		
9. Number of teaching posts sanctioned and filled		Sanctioned	Filled
	Professors	-	-
	Associate Professors	1	1
	Assistant.Professors	3	3

10. Faculty Profile

Name	Qualification	Designation	Specialization
Baby J Alappat	MSc, BEd	Associate Professor & HOD	General Zoology
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	22	Nil	

Dr.Sr Anis K V	MSc, BEd, MPhil, PhD	Assistant Professor	Biochemistry
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	7	Nil	
Dr. Gigi Poulose	MSc, BEd, PhD	Assistant Professor	Immunology
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	1	Nil	
Dr. Aneesh E M	MSc, BEd, ACGC, PhD	Assistant Professor	Cytogenetics
	No. of Years of Experience	No. of PhD Students guided for the last 4 years	
	3	Nil	

12. Percentage of lectures delivered and practical classes handled by temporary faculty

	2007-08	**2008-09**	**2009-10**	**2010-11**	**2011-12**
	25	25	25	50	50

13. Student Teacher Ratio (programme wise)	UG		PG
	10:1		

14. Number of academic support staff (technical) and administrative staff	Sanctioned – 02; Filled - 01

15.Qualifications of teaching faculty with DSc/D.Litt/PhD/MPhil/PG	PhD : 3 PG: 1

16.Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	National (UGC) - 2 1) 90,000 2) 80,000

17.Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and grants received	Funding Agency	Amount Sanctioned
	UGC	1) 90,000 2) 80,000
	DST-FIST	

18. Research Centre/Facility recognized by the University	Nil Research supervisor -01

19.Publications :
  a) **Publication per faculty**
  b) **Number of papers published in peer reviewed journals (b1.national / b2.international) by faculty and students**
  c) *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)*
  d) **Monographs**
  e) **Chapter in Books**
  f) **Books Edited**

	g) Books with ISBN/ISSN numbers with details of publishers h) Citation Index i) SNIP j) SJR k) Impact factor l) h-index

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	L
Dr. Sr. Anis K V	04												
Dr. Gigi Poulose	01		1	1								1.6	
Dr. Aneesh E M	08			3								6.2	

20. Areas of Consultancy and Income Generated:

Areas of Consultancy	Income Generated
1) Blood group detection 2) Blood pressure & Blood sugar checking 3) Rearing and sale of love birds and ornamental fishes 4) Guidance for Plus Two students	8350/- Free of cost 5640/- 250/-

21.Faculty as members in
   a) National committees b) International Committees c) Editorial Boards.

National committees	
International Committees	Dr. Aneesh E M, Nominated Regular Member, American Chemical Society and International Natural Hygiene Society
Editorial Boards	1) Dr. Sr. Anis K V - Editor of college Alumnae news letter in 2011 & 2012 2) Dr. Aneesh E M - Journal of recent advances in sciences 3) Dr. Aneesh E M - Darshan e Magazine

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

100% of final BSc students

23.Awards/ Recognitions received by faculty and students

1. Dr. Aneesh E M, Young scientist Award 2010 ISMOCD, under ICMR
2. Dr. Aneesh E M, UGC RFSMS fellowship-2008
3. Rahana M A, Student of the Year Award - 2009
4. Sreelakshmi M P, Second runner up of the student of the Year Award 2011
5. Aathira Madhu, participant in Mampazham Programme of Kairali T V

24.List of eminent academicians and scientists/ visitors to the department

Dignitary	Status
Dr.Arvindkumar Nema	I.I.T.Delhi
Dr.Babu J.Alappatt	I.I.T.Delhi
Dr.Sankar	Scientist, KFRI, Peechi
Dr.C.K.Krishnan Nair	Amala Cancer Research Institute, Thrissur
Dr.John Thomas	Christ College Irinjalakuda
Dr.M.V.Warunny	S.H.Hospital Pullur
Dr. Manoj	St.James Hospital, Chalakudy
Dr.Fiju Chacko	Jubilee Mission Hospital, Thrissur
Ms Ayisha.P.P	CRAFT, Kodungallur
Dr.V.I.Paul	Annamalai University, Tamil Nadu
Dr.Bijoy Nandan	CUSAT, Cochin
Dr.Girija	Kerala Agricultural Uty, Thrissur
Dr. C.P.Shaji	K.S.B.B., TVM
Dr.Rajesh Kumar	Johns Hopkins Medicine, USA
Dr.V.S Vijayan	Salim Ali Foundation,Thrissur
Dr.T.V.Sajeev	KFRI, Peechi
Dr.Shaju Thomas	Nirmala College, Muvattupuzha
Mr. C.R.Neelakandan	Social Environmental Activist, Thrissur

25.Seminars/ Conferences/Workshops organized & the source of funding

	Event & Date	Funding Agency
National	Seminar 1. Emerging environmental issues; 31/10/2008	Nil
	Seminar 2. Advanced technologies for waste treatment; 24-25/2/2011	UGC
	Seminar 3. Forest – A Biodiversity rich Biome: Current Status and Future Implications; 01-02/3/2012	UGC

26.Student profile programme/course wise

Year	Applications received	Selected	Enrolled	Pass percentage
	UG	UG	UG	UG

2007-08	346	40	40+1*	100
2008-09	323	40	40+1*	100
2009-10	415	40	40+1*	100
2010-11	358	40	40	100
2011-12	523	40	40+1*	94

* Laksha dweep

27.Diversity of Students	Students from the State	Students - Laksha dweep	Students from other countries
	100% students – natives of Kerala	2	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

2008		**2009**		**2010**		**2011**	
JRF	SET	JRF	SET	JRF	SET	JRF	SET
Nil	2	Nil	Nil	Nil	2	Nil	Nil

29.Student progression

Student Progression	**Against % enrolled**				
	2007-08	**2008-09**	**2009-10**	**2010-11**	**2011-12**
UG to PG	34	41.11	41.11	37.14	26.47
PG to MPhil					
PG to PhD					
PhD to Post Doctoral					
Employed • Campus selection • Other than campus	8	0	0	0	8

30.Details of Infrastructural facilities

- Library: A book bank and a good library with more than 100 reference books
- Internet facilities for Staff & Students
- Journals: Millennium Zoology, Jalatharangam, Tree India, Amala Research Bulletin, Journal of recent advances in sciences
- Class rooms with ICT Facility: 3 classrooms with OHP facility
- Laboratories: A well equipped lab with LCD projector - 01, Display Screen - 01, Desktop computers-03, Laptop - 01, Microphone system - 01, Digital camera - 01, Aquarium - 02, Bird Cage-01, etc.

- Museum – 01 (well Established zoology Museum attached with the Lab)
- Store - 01

31.Number of students receiving financial assistance from college, university, government or other agencies:

Period	College	University	Government or other agencies
2007-08	07		31
2008-09	07		29
2009-10	07		32
2010-11	07		28
2011-12	07		33
	07		32

32.Details on student enrichment programmes (special lectures/workshops / seminar) with external experts

- Invited Talks – Three – 1) A talk on global environmental issues; 2) Stroke and you; 3) Forest Biodiversity
- Endowment Seminars – Five - 1) Genes and Cancer; 2) Multifactorial Polygenic Inheritance and Diseases 3) A peep into the brain 4) Advanced techniques in reproductive biology 5) Advanced Technologies in Vermi composting
- National Seminars - Three - with 11 eminent resource persons
  1) Forest –A Biodiversity rich Biome Current status And Future Implications (UGC sponsored)
  2) Advanced technologies for waste treatment (UGC sponsored)
  3) The emerging environmental issues
- Interactive session with eminent resource persons:
  Dr. Rajesh Kumar (Instructor of Oncology, Johns Hopkins medicine, USA)
  Dr. Vinod Thomas (HOD, Dept of Cardiology, Sunrise Hospital, Ernakulam)

33.Teaching methods adopted to improve student learning:

- PowerPoint presentations
- Video show
- Use of OHP
- Field trip
- Use of charts, models, live and preserved specimens
- Group discussions & Debates
- Student seminars and assignments

34.Participation in Institutional Social Responsibility (ISR) and Extension activities

1. Visit to old age homes and homes for physically and mentally disabled and one Dementia centre
2. Visit to a rehabilitation centre for alcoholics
3. Blood group detection campaign for local people and +2 students

4. Water quality Survey
5. Calculation of body mass index of students
6. **Promotion of environmental awareness**

35.SWOC analysis of the department and Future plans	
Strengths	- Unity among faculty and staff - Support of our former HODs and former staff, Good Academic atmosphere (Obtained all the three university ranks twice - in the years 1994 & 2007) - Punctuality in completing records and practicals - Visit to students' houses
Weakness	No separate block for Zoology main students
Opportunities	- Training programme for students in ornamental and endemic fish culturing - Rearing of love birds and fish on commercial basis - Providing computer literacy through G tech course
Challenges	Lack of experienced lab assistants
Future Plans	

- PG regular course
- Interdisciplinary Certificate Course
- Health card preparation for all the students in collaboration with Physical Education
- Implementing a virtual lab

Plan of Central Library Interior

GROUND FLOOR

- LIBRARIAN
- READY REFENCE
- FACULTY
- WAY IN
- WAY UP
- WAY OUT
- SEARCH
- INTERNET ROOM
- CCTV
- I D CHECK
- REPOGRAPHIC ROOM
- WAY IN
- COUNTER
- WAY OUT
- WAY OUT
- NORTH

FIRST FLOOR

- P G LIBRARY READING ENCLOSURE
- NATURE STUDIES
- WOMEN CELL
- CAREER GUIDENCE
- DISCUSSION HALL
- RESEARCH CONSULTANCY ROOM
- NORTH

UNIVERSITY OF KERALA

No. G.C.2/2879/63.

TRIVANDRUM,

1st July, 1964.

From

THE REGISTRAR.

To

The Mother-General,
Congregation of the Sisters of Holy Family,
Kuzhikkattussery (Trichur District).

Sub:- Junior Colleges - Affiliation sanction of -

~~Sir~~/Madam,

I write to inform you that the report of the subjects Inspection Commission which visited the proposed Junior College at **Irinjalakuda** was considered by the University and sanction has been accorded for provisional affiliation of the **St. Joseph's College for women,** at **Irinjalakuda** for the year 1964-65 with the 1st year of the 2 Year Pre-degree Course with a maximum intake of four batches of 80 students each, (viz.3 batches of 80 students under Part II (a) and one batch of 80 students under Part II (b)). The conditions specifically noted below are to be fulfilled and a report to that effect made to the University immediately.

Conditions to be fulfilled immediately.

1. Construction of the permanent buildings should be expedited so that the whole college may shift over to the new buildings during 1965-'66 itself.

2. A portion of the buildings or old oil mill should be converted into temporary laboratories so that work may start there by September 1964 in case the permanent buildings are not completed by then.

3. The existing class room should be provided with ceiling.

4. One more class room of the existing type should be provided.

5. A Senior Science Teacher with sufficient experience should be appointed.

6. All the staff should be in position.

7. All the unqualified staff should be replaced forthwith.

(P.T.O.)

2. An extract from the report of the Subjects Inspection Commission will be sent to you shortly for implementing all the other recommendations made by the Commission.

3. The provisional affiliation now given to run the college in the present premises is only for the academic year 1964-'65. Another commission will be appointed some time later to verify whether all the conditions stipulated by the Subjects Commission have been carried out. The question of continuance of the provisional affiliation of the College for the year 1965-'66 will depend on a favourable report from the Commission which will visit your college later.

4. The sanctioned strength for the 1st year class of the college (ie. three Science batches and one Arts batch of 80 students each) should not be exceeded without fresh sanction.

Kindly acknowledge receipt of this letter.

Yours faithfully,

REGISTRAR.

Copy to: The Principal,
St. Joseph's College for Women,
Irinjalakuda

PRINCIPAL
St. Joseph's College
Irinjalakuda

KVP/1.7.

UNIVERSITY OF CALICUT

(Emblem)

Grams: UNICAL

Telex : 0804-243

Phone : 232 (Chelari)

CALICUT UNIVERSITY P.O.
673 635

Date: 26-4-1989

No. GAI/D2/1718/89

CERTIFICATE

This is to certify that St.Joseph's College, Irinjalakuda had been started in 1964-65 as per G.O. No.2/2879/63 dated 1-7-1964 of the Government of Kerala and got affiliated to this University on 23-7-1968 from Kerala University.

(Sd.)

REGISTRAR.

kjk/26489

Kerala   Calicut   Affiliated Colleges

Sl. No.	College Code	Name & Address	Estd/ Mngt/ Loc PG/Women/Eve	Courses
		Affiliated Colleges		
127	73156	NEHRU COLLEGE OF ENGINEERING & RESEARCH PAMPADY THRISSUR DIST THRISSUR KERALA	2002 Pvt Non-Aided Rural	B Tech
128	73053	PANAMPILLY MEMORIAL GOVT COLLEGE, CHALAKUDY DIST TRICHUR KERALA-680307	1979 State Govt Rural PG	B A ,B Com ,B Sc MA
129	73054	SACRED HEART COLLEGE FOR WOMEN CHALAKUDY DIST TRICHUR KERALA-680307	1980 Pvt Aided Urban PG Women	B A ,B Sc MSc
130	73155	SAHRIDAYA COLLEGE OF SCIENCE & TECHNOLOGY KODAKARA THRISSUR DIST THRISSUR KERALA	2002 Pvt Non-Aided Semi-Urban	B Tech
131	73055	SREE KERALA VARMA COLLEGE TRICHUR DIST TRICHUR KERALA-686011	1947 Pvt Aided Urban PG	B A ,B Sc ,B Com M A ,M Sc ,M Com
132	73056	SREE KRISHNA COLLEGE, GURUVAYUR,ARIYANNUR DIST TRICHUR KERALA-680102	1964 Pvt Aided Rural PG	B A ,B Sc ,B Com MA ,M Sc ,MCom
133	73057	SREE NARAYANA COLLEGE NATTIKA, THRISSUR DIST TRICHUR KERALA-680566	1959 Pvt Aided Rural PG	B A ,B Sc ,B Com M A ,M Sc ,M Com
134	73058	SREE VIVEKANANDA COLLEGE, KUNNAMKULAM DIST TRICHUR KERALA-680523	1981 Pvt Aided Urban PG	B A ,B Com M Com
135	73048	SRI ACHUTA MENON GOVT COLLEGE, KUTTANELLUR DIST TRICHUR KERALA-680001	1972 State Govt Urban PG	B A ,B Com ,B B A M A ,M Com
136	73059	SRI VYASA N S S COLLEGE, VAYASAGIRI,VADAKKANCHERY DIST TRICHUR KERALA-680623	1967 Pvt Aided Rural PG	B A ,B Sc ,B Com M Sc
137	73060	ST ALOYSIUS COLLEGE, ELTHURUTH DIST TRICHUR KERALA-680611	1968 Pvt Aided Rural PG	B A ,B Sc ,B Com M A
138	73061	ST JOSEPH'S COLLEGE, IRINJALAKUDA DIST TRICHUR KERALA-680121	1956 Pvt Aided Urban PG Women	B A ,B Sc ,B Com MA ,M.Sc ,M.Com ,MSW

प्रथम तल, जीवन तारा भवन, ५, संसद मार्ग
पटेल चौक, नई दिल्ली - ११०००१
1st Floor, Jeevan Tara Building, 5, Sansad Marg
Patel Chowk, New Delhi - 11000

F. No. 270 OF 2008/385 47

Dated......................

ON CONSIDERATION OF THE DOCUMENTARY EVIDENCE PRODUCED BEFORE THE COMMISSION, THE COMMISSION IS SATISFIED THAT ST. JOSEPH'S COLLEGE, IRINJALAKUDA, THRISSUR DIST. KERALA RUN BY THE ST. JOSEPH EDUCATIONAL SOCIETY, EXCLUSIVELY IS A MINORITY EDUCATIONAL INSTITUTION WITHIN THE MEANING OF SECTION 2(g) OF THE NATIONAL COMMISSION FOR MINORITY EDUCATIONAL INSTITUTIONS ACT 2004. CONSEQUENTLY, IT IS HEREBY DECLARED THAT THE AFORESAID COLLEGE IS A MINORITY EDUCATIONAL INSTITUTION COVERED UNDER ARTICLE 30 OF THE CONSTITUTION OF INDIA.

GIVEN UNDER MY HAND AND THE SEAL OF THE COMMISSION ON THIS 24TH DAY OF SEPTEMBER, 2009.

(R. RENGANATH)
SECRETARY

Committees Constituted for the Preparation of the Re-Accreditation Report

Chairman& Principal
Dr. Sr. Anee T K

Vice-Principal
Dr. Sr. Rosa K D, Associate Professor, Department of Commerce

Vice-Principal
Dr. Sr. Lilly P L , Associate Professor, Department of Mathematics

Coordinator
Dr. Philo Francis, Head & Associate Professor, Department of Commerce

Asst. Coordinator
Dr. Mangalambal N R, Associate Professor, Department of Mathematics

Criterion Committees

1.Curricular Aspects
Dr. Philomina M T, Associate Professor, Department of Mathematics
Dr. Roseballa K Puthur, Associate Professor, Department of Chemistry
Ms. Litty Chacko, Head and Assistant Professor, Department of Malayalam
Ms. Elizebath Paul C, Assistant Professor, Department of Commerce
Dr. Rani M J, Head and Associate Professor, Department of Mathematics
Ms. Gracyamma Joseph, Head and Associate Professor, Department of Physics
Ms. Soumya Stephen, Assistant Professor, Department of Commerce
Ms. Anju Susan, Assistant Professor, Department of English

2.Teaching , Learning and Evaluation
Ms. Baby Mathews, Head and Associate Professor, Department of Zoology
Ms. Lilly T I, Associate Professor, Department of Mathematics
Ms. Lissy K Thalakottur, Head and Associate Professor, Department of Chemistry
Dr. Sr Rose Anto, Head and Associate Professor, Department of Hindi
Ms. Babitha Antony, Guest Faculty, Department of History
Dr. Aneesh E M, Assistant Professor, Department of Zoology
Ms. Meena Irimpen, Associate Professor, Department of Biotechnology
Sr. Mini Thomas, Assistant Professor, Department of Chemistry
Ms. Vijaya E S, Guest Faculty, Department of Commerce
Ms. Leema Noble, Guest Faculty, Department of Commerce

3.Research, Consultancy and Extension
Dr. Pearly Sebastiam Chittilappilly, Associate Professor, Department of Chemistry
Dr. Beena Anto K, Head and Associate Professor, Department of Botany
Mr. Naijil George, Assistant Professor, Department of Biotechnology
Ms. Lissama John, Associate Professor, Department of Hindi

Ms. Sumina K S, Head and Assistant Professor, Department of History
Ms. Saji Jose Nellissery, Head and Guest Faculty, Department of Social work
Dr. Viji M O, Assistant Professor, Department of Biotechnology

4.Infrastructure and   Learning Resource
Dr. Valsa John C, Head and Associate Professor, Department of   Economics
Dr. Sr. Anis K V, Assistant Professor, Department of Zoology
Dr. Viji Mary, Head and Assistant Professor, Department of Biotechnology
Ms.Jessy Paul, Head and Associate Professor, Department of Physical Education

5.Student support and Progression
Dr. Shally Anthappan, Associate Professor, Department of English
Dr. Bincy Varghese, Associate Professor, Department of Chemistry
Dr. Sr. Jessy K C, Guest Faculty, Department of Social Work
Sr. Ligy V K, Assistant Professor, Department of Commerce

6.Organization and   Management
Dr. Sr. Lilly K O, Assistant Professor, Department of Chemistry
Dr. Chakkappan C D, Head and Guest Faculty, Department of History
Sr. Thressia T M, Office Superintendent
Sr. Alphonsa, Head Accountant
Sr. Lisieux Joseph, Office staff
Ms. Anaswara Davis, Guest Faculty, Department of Biotechnology

7.Innovative Practices
Dr. Rani Paul Ukkan, Head and Associate Professor, Department of English
Mr. Stalin Raphael, Assistant Professor, Department of   Physical Education
Dr. Asha Thomas, Assistant Professor, Department of English

Technical Committee
Dr. Sr. Lissy Anto P, Associate Professor, Department of Computer   Science
Mr Vargheese, Assistant Professor, Department of Statistics
Ms. Reshma Johny, Guest Faculty, Department of Commerce
Ms. Teena Thomas, Guest Faculty, Department of Commerce
Ms. Shinci Vijayan, Guest Faculty, Department of Commerce
Ms. Neethu Vijayan, Guest Faculty, Department of Commerce

Website updating
Sr. Siji P D, Assistant Professor, Department of Computer Science
Ms. Sreelekshmi, Guest Faculty, Department of Cyber Security

Report of the Peer Team of the Institutional Accreditation of the St. Joseph's College, Irinjalakuda-680121

Section 1: Preamble

St. Joseph's College, Irinjalakuda in Thrissur District of Kerala was established in the year 1964 by the congregation of the Holy Family Sisters inspired by Mother Mariam Thresia. The college is affiliated to Calicut University. It is located in a semi-urban area on a 15 acre campus. It offers nine undergraduate courses: Mathematics, Physics, Chemistry, Botany, Zoology, Economics, English, History and Commerce. Hindi and Malayalam are offered as second languages. Besides, the college offers three post-graduate programmes in Mathematics, Commerce and Chemistry. At present there are 1213 students in the campus. The college caters to the educational needs of girls of this area. Admission is open to all irrespective of religion, caste and community.

The college volunteered to be assessed and accredited, and submitted a self-study report to the National Assessment and Accreditation Council(NAAC) in November 1999. In response to this request, NAAC constituted a peer team consisting of Prof.P.Ramachandra Naidu, fomerly Vice-Chancellor of Sri Krishnadevaraya University as Chairman, Prof.S.Indumati, Professor of Economics, University of Mysore and Prof.R.A.Sridhari Das, Principal of Smt.V.H.D. Central Institute of Home Science, Bangalore as Members. Dr.Latha Pillai, Deputy Adviser and Mr.B.S.Ponmudiraj, Academic Professional, NAAC ably coordinated the visit of the peer team to the institution.

The peer team visited the institution from February 29th to March 02nd, 2000. The team interacted widely with the Principal, Management, teaching staff, non-teaching staff, Parents, Alumnae, Students and other functionaries. The team also visited the classrooms, office, library, laboratories, auditorium, indoor stadium, sports facilities, non-resident centre, cafeteria and other infrastructure facilities. The peer team has recorded the data on various facets of institutional functioning and performance and

prepared the following report in terms of overall assessment about the institution which are discussed under the criteria suggested by NAAC.

Section 2: Criterion-wise Analysis

Criterion I: Curricular Aspects

The academic programmes offered by the college include 9 undergraduate, 3 postgraduate, and 3 diploma and certificates courses. Within the existing system(affiliated), efforts are being made to redesign the programmes wherever possible. Introduction of career oriented diploma/certificate courses in Electricity and Electronics Servicing, Horticulture, Computer Application, Typewriting and Shorthand are more relevant and appreciable. Attempts have been made to empower women through training opportunities in tailoring and book-binding. Feedback is obtained by the teachers and principal from the students. This has been used positively for the improvement of teaching skills, teaching-learning process and teacher-student relationship. The teachers need to be complemented for the better performance of the students in the annual examinations. Value education classes, humanized approach to education and family oriented approach have also helped to sensitize the students to the social realities.

Both the staff and the management have shown a great interest and have been appreciative of the concept of 'autonomy' to the institution. This, once promoted would help them to introduce new and innovative job oriented courses with more of horizontal mobility, elective options and/or non-core options and greater flexibility to pursue a programme within the time framework. The constraints once overcome, will help to raise the status of an institution further and respond to the needs of the society and students' programmes. Wish the institution's *"Gospel of Light, Life and Love"* with social commitment in education be a reality with the concept of *'ideal women'* which they are intending to promote.

The team is very happy to note that some senior faculty are the members of the Boards of Studies in Calicut University and hence have an opportunity in redesigning the curriculum.

Criterion II: Teaching-learning and Evaluation

The teaching, learning and evaluation components, which are important issues relating to faculty, are well addressed to in this institution. The Academic Excellence Committee is catering to this requirement on the basis of annual plan drawn in advance. Though the college has been following the annual examination system of the Calicut University, efforts are being made to continuously evaluate the performance of the students. The knowledge and skills of the students are evaluated through assignments, oral tests and terminal exams. Remedial courses are offered to educationally disadvantaged students and special attention for the bright students. This is reflected in the overall results of the college and ranks obtained by individual students in the University Examinations. Continuous evaluation process by the teachers and personal rapport with the students not only motivates the students to acquire sound knowledge but also helps to improve their academic performance. The teachers are recruited as per the procedure prescribed by the University and the State Government.

However, steps need to be taken to further improve the teaching-learning process and make it learner-centered, to cope up with the heterogeneous requirements of the students. Use of new technology and teaching-aids by some departments in the teaching-learning process may be disseminated to all the other departments of the institution. Continuous internal assessment, innovations in examination system, linkages with national and international agencies would promote better growth of the institution.

Criterion III: Research, Consultancy and Extension

Aptitude for research not only promotes acquisition of advanced knowledge but also improves the skills and standard of education. In this direction, encouragement is given to teaching community by the management. The outcome of this has been that out of 79 faculty members 11 of them have earned Ph.D. degrees and 19 M.Phil. degrees and 19 of them are pursuing either of these programmes. The teaching-staff in the departments are fully utilizing the Faculty Improvement Programme(FIP) of the University Grants Commission(UGC) facility available to them. The number of non-teaching (technical staff, administrative staff and supportive staff) is quite adequate.

There are 5 ongoing research projects in the college. Publications by the staff: which is lacking at present need to be taken up. Further, they also need to explore the possibilities in providing consultancy and extension programmes/services to the people/community around, so that the higher education becomes more purposeful, responsive and responsible.

Number of innovative activities are taken up under community development programmes, social work, health and hygiene awareness, medical camps, adult education and literacy programmes, blood donation camps, AIDS awareness and environmental awareness programmes. These have helped in the involvement of students and teachers with the local problems and understand and respond to grass root realities. Some outreach programmes in association with NGOs and GOs to cater to extension activities is appreciable. The College has two NSS and one NCC unit rendering commendable services.

Criterion IV: Infrastructure and Learning Resources

The college has adequate infrastructure facilities to run the academic programmes and administrative functions effectively within a campus area of 15 acres in a semi-urban locality. The college has adequate number of classrooms and laboratories. The central library has 44378 books and 137 research journals/periodicals and it is well maintained. Every year a good number of books and journals are added to the library. The working hours of the library seems to be adequate. However, extension of working hours is desirable since it provides better access to the resident teachers and students. The laboratories of the college are well maintained. However, these laboratories need to be improved and well equipped with latest accessories.

An attempt has been made to provide access to latest information technology and learning resources through the computer laboratory and internet facility. Increasing the number of computers would be helpful in making all the teaching, non-teaching and the student community computer literate since it is the need of the new millennium. PGDCA programme offered by the college, along with other degree programmes is a motivating factor.

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Sports and physical education activities have received great concern in this institution. The outcome of this is reflected both in the facilities made available through sports and games grounds and prizes and awards received by the students. The students have represented the institution at the state, national and international levels. The existence of an indoor stadium with teak wood flooring accommodating around 2000 students needs a special mention.

The college has a well maintained hostel, housing 326 students, a non-resident student centre and a canteen. The buildings and the campus is well maintained. Darsana Family Counselling Centre approved by Central Social Welfare Board offers a support system to students and families with problems and other needy public. A routine medical checkup is carried every year for the students. The teaching, non-teaching staff and the students are making good use of the available physical and social infrastructure facilities in the campus.

Among the other welfare programmes for the students, mention may be made of:
- students aid fund for the economically backward students
- merit-cum-means scholarships by the management
- noon meal programmes sponsored by social service league
- providing needy students with books and uniform
- marriage fund for the poor students and
- fund from the alumnae association for higher studies

The non-teaching staff has a mutual help fund. The management may continue to provide financial facilities in times of need to both teaching and non-teaching staff.

Criterion V: Student Support and Progression

The students are admitted on the basis of qualifying examination marks and as per the current guidelines of the university and state government. The departments maintain the records relating to student progression. Number of former students have been very well placed as doctors, engineers, lawyers, lecturers, school teachers, bank employees and other important professions. During the last five years 26 students are qualified in UGC-CSIR-NET and one student in GATE.

The strengths and weaknesses of each department are obtained from the students through feedback mechanism to some extent. This is later handed over to the concerned teacher for improvement. A survey was also conducted for the students to know about themselves which was positively taken. During the last two years 126 students have received merit scholarships and 315 are benefited under merit-cum-means scholarships. Under the students' aid fund around 70 students are the beneficiaries.

The Alumnae Association and the management together offer financial assistance to the needy students along with social service league of the college and faculty members. The academic and personal counselling system has helped the students to improve themselves and do better academically. Teachers are given the charge to co-ordinate the activities of the employment cell which motivates the students towards self-employment. Financial aid, counselling and placement services play a significant role in student empowerment.

The institution encourages the holistic development of students through family oriented education, value based education and outreach activities. A screening test is desirable in the admission policy. The formal counselling centre needs trained manpower. New initiatives are required for imparting of entrepreneurial skills. An organised placement cell is recommended for the students when vocational courses are introduced.

Criterion VI: Organisation and Management

Organization and Management constitute one of the important pillars in the structure of an education institution which is quite strong in this college. The institution has an internal co-ordinating and monitoring mechanism functioning through various bodies viz., general education, provincial education and local education boards, governing body, college council and college union. The work efficiency of the non-teaching staff is monitored by an in-built mechanism which has cross section representation.

Planning of an academic calendar, resource requirements and mobilization, evaluation sessions of the non-teaching staff and work allotment which are necessary for the

smooth functioning of the college are chalked out at the beginning of every academic year.

The deficit budget, despite the mobilization of financial resources through various agencies like the government, UGC, guardians well-wishers, public and the management is of a serious concern. Hence, additional efforts are needed to generate funds from other sources as well. Allocation of resources to augment library facilities and purchase of modern equipment's deserve immediate consideration. The welfare schemes are limited and it is necessary to augment the same.

Criterion VII: Healthy Practices

The college has some good healthy practices being followed during the last few decades of its establishment about which a special mentioned is made below.

- ☺ The certificate and diploma courses offered outside the day schedule to those students and teachers who have aptitude to acquire computer knowledge needed in the area of education.
- ☺ Training in vocational programmes like tailoring, type-writing and printing and book-binding given to students.
- ☺ Existence of a strong cultural activities wing, where the students are trained and equipped to participate at the regional and national level competitions.
- ☺ Family oriented education offered by the institution which is a very healthy trend.
- ☺ Adoption of a village by the institution and involvement of teachers and students for its integrated development is worth mentioning, since, it has improved the social service sector and created an awareness among the communities.
- ☺ The missionary zeal with which the members of the faculty work has enabled the disadvantaged students to acquit well in the examinations and also acquire knowledge that is expected of a graduate student.
- ☺ The tutorial system, counselling, attaching a group of students to the members of the faculty has helped to improve academic performance of the students.
- ☺ Continuous interaction by the students with the teaching staff has promoted in the enrichment of knowledge among the students and made them competitive.
- ☺ Best Teacher Award won by the teaching staff speaks high of this institution.
- ☺ Student evaluation of teachers on various issues related to the teaching-learning process(within the affiliating system) is appreciable.

☺ Organisation of seminars and awareness programmes by almost all the departments need a word of appreciation.

☺ Alumnae association along with the people of Irinjalakuda catering to the financial requirements of the needy students and the institution is a significant factor.

☺ Nature club which has helped to create environmental awareness.

☺ Women's cell has helped the students to know about their role in the family and society and thereby promote personality development.

Section 3: Overall Analysis

The St. Joseph's College is one of the premier institution addressing the need of higher education specially to the girls in and around Irinjalakuda. The peer team would like to commend the institution on the following aspects:

✓ Efforts made by the Principal and members of the faculty to obtain feedback from the students.

✓ The policy of the institution regarding periodical evaluation of students.

✓ Innovative community development activities involving all the students and the members of the faculty.

✓ Aptitude displayed by the teachers to pursue research programmes.

✓ Indoor stadium facility made available with an intention to promote physical education and other sports activities for girls.

✓ Healthy rapport maintained and cherished with parents, alumnae and the public.

✓ Dedicated management committed to the cause of raising the standards in higher education.

✓ Encouragement given to promote computer studies.

✓ Computerisation of library.

Based on the overall performance of the institution, assessing its strengths and limitations, following recommendations are made by the peer team for future development of the institution:

☞ Screening test at the time of admission to judge the aptitude of the students.

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☞ More systematic self-appraisal of the teachers and appraisal of teachers by the students is desirable.

☞ Explore the possibilities for mobilizing financial resources through the research projects funded by CSIR, DST, UGC, DBT and industries.

☞ Promote consultancy services in and around the region.

☞ Augment the existing welfare schemes and expand its area of network.

☞ Motivate the Parent-Teacher and Alumnae Association to contribute to the overall development of the institution.

☞ Explore the possibilities of introducing self-financing courses.

☞ In view of the existing demand for the residential accommodation from the students, the hostel facility needs to be expanded.

☞ In addition to the existing programmes, skill oriented training may be given to the students to face the competitive examinations.

☞ The outcome of the interaction with the principal, the management, the teaching staff, PTA and alumnae has revealed the desire to acquire autonomous status for the institution. The peer team also felt that this would help the institution to offer vocational and job-oriented courses. It would also help to facilitate flexibility, horizontal mobility and introduce choice based credit system. Further, reforms in the continuous evaluation of students performance and examinations could be introduced.

We express our gratitude to the management, the Principal and the staff for their kind hospitality. We wish the institution all success in its future endeavours to develop as a model institution of higher learning in the country.

Names & Signatures of the Peer Team Members

Prof. P. Ramachandra Naidu

Prof. S. Indumati

Prof. R.A. Sridhari Das

Name & Signature of the Head of the Institution with Office Seal

I agree with the observations of the report.
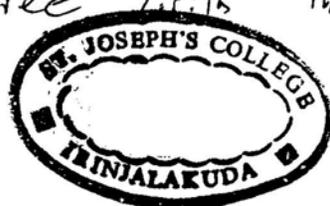
PRINCIPAL
St. Joseph's College
Irinjalakuda

Lilly T.V.

National Assessment and Accreditation Council

An Autonomous Institution of the University Grants Commission

Bangalore

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

St. Joseph's College, *Irinjalakuda,*

affiliated to the University of Calicut, Kerala, as

Accredited[1]

at the Three star level[2].

(among the Affiliated/ Constituent Colleges)

Date: April 17, 2000
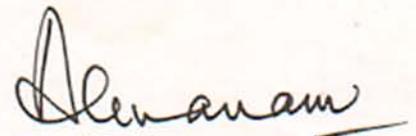
Chairman

1. This certification is valid for a period of 5 years with effect from the assessment academic year 1999-2000.
2. An institutional score (%) in the range of *55-60* denotes one star, *60-65* two stars, *65-70* three stars, *70-75* four stars, and *75 and above* five stars (upper limit exclusive).

PEER TEAM REPORT

ON

INSTITUTIONAL RE-ACCREDITATION

OF

ST. JOSEPH'S COLLEGE, IRINJALAKUDA 680121

KERALA

Visit dates: 13 – 15 March, 2007

National Assessment and Accreditation Council
(An Autonomous Institution of the University Grants Commission)
P.O. Box No: 1075, Nagarbavi, Bangalore 560072

Peer Team Report on Institutional Re-accreditation of
St. Joseph's College, Irinjalakuda 680121
District Thrissur, (Kerala)

SECTION I

Introduction

St Joseph's College, Irinjalakuda in Thrissur District of Kerala, was established in the year 1964 by the sisters of the Congregation of the Holy Family founded by Blessed Mariam Thresia. It is a grant-in-aid institution affiliated to Calicut University. The college has got recognition by the UGC under 2(f) and 12(b) in June 1964. It is located in the semi urban area on a 19 acre campus.

The mission of the college is to groom academically and globally competent women, rooted in values and endowed with compassion for the weak and marginalized, earnestly pursuing truth, peace and universal harmony.

The college now offers 11 under graduate courses, 7 post graduate courses, 3 UGC aided add-on courses, 16 unaided enrichment courses and a research center in Mathematics. The college caters to the educational needs of girls of this area. 76% of the students are from remote rural and educationally and economically backward areas. Admission is open to all irrespective of caste, religion and community. The number of faculty members is 87 consisting of one part time and 51 permanent aided teachers, and 35 teachers are paid by the management. The number of non-teaching staff is 52 of which 34 are permanent and 18 are paid by management. Among the staff, 20 members have Ph.D. degree. The college has a total enrollment of 1623 students. The number of working days in the last academic year was 260 of which teaching days were 197.St Joseph's College was assessed and accredited by NAAC in 2000 with 3 stars. In January 2007 the college volunteered for Re-accreditation and submitted its Self Study Report to the NAAC. In pursuance of this, the NAAC

Initiated the process and constituted a Peer Team consisting of **Prof. Dr. R.S. Mali**, Former Vice Chancellor, North Maharastra University as Chairperson, **Dr. Esthern Ranjani P**, Principal, Y.M.C.A. College of Physical Education, Chennai as Member Coordinator and **Prof. (Smt) H.V. Vijaya**, Principal, Vidya Vardhaka Sangha First Grade College for Women, Bangalore as Member.the Peer Team visited the St. Joseph's College from 13th to15th March 2007. In accordance with the norms and guidelines issued by the NAAC assessment and re-accreditation, the Peer Team carefully studied the re-accreditation report Part 1 and Part II and other relevant documents, interacted with the principal, management, IQAC members, the students, parents, alumni and teaching and non-teaching staff of the college. The Peer Team also examined the infra-structure facilities and support services available with the college. Based on the above exercises and thorough analysis of the facts and figures, the Peer Team presents the following criterion-wise analysis, commendations and recommendations.

SECTION II

Criterion-wise Analysis:

Criterion I: Curricular Aspects:

The college has clearly stated vision and mission and a set of well defined core values and objectives. The college now offers 11 undergraduate, 7 P.G., 3 UGC aided add-on courses, 16 unaided enrichment courses and a research center in Mathematics.

The college offers the following courses- B.A. in English Language and Literature, History and Economics, B.Sc. in Mathematics, Chemistry, Bio-technology, Physics, Zoology and Botany, B.Com. and B.B.A., M.Sc. in Mathematics, Chemistry , Bio-technology, M. A. English Literature, Masters in Journalism and Mass Communications, M. Com., M. S.W. and Ph.D. in

Mathematics. The three UGC aided, add-on courses are Audio-visual media practice, Travel and Tourism and Spoken English.

The college has introduced three P.G. programs – Master of Social Work, Master of Journalism and Mass Communication and M.Sc. Bio-technology, two UG programmes- B.Sc in Bio-technology and Bachelor of Business Administration, three UGC aided Add-on courses and 16 unaided enrichment courses during post accreditation period. The college follows the curriculum prescribed by the Calicut University. The revision and modification of the syllabi are done at the university level. The college is offering a diverse range of courses to help the students of socially and academically disadvantaged sections of society.

As members of the Board of Studies, a few faculty members have contributed to the curriculum designing activity of the university. It is worth mentioning that the certificate courses introduced by the college have greater employment potential.

Though flexibility is not available , the college has introduced several educational and value –added programnes which are commendable initiatives undertaken by the institution.

The college follows annual system in respect of UG programmes and semester in respect of the PG programmes as per the university recommendations. Thirty percent of the UG course-work and 40% of the PG course work is practical or work experience oriented.

The practice of collecting feedback systematically from the students, teachers, parents and alumni for bringing changes in the curricula is a welcome initiative. The introduction of inter disciplinary subjects such as Master of Social Work, M.C.J. and Bio-technology at PG level is a commendable initiative taken by the institution in curriculum aspect. Field trips, visits to places of academic interests, seminar, surveys and projects are part of the curriculum.

Criterion – II Teaching, Learning and Evaluation

The college follows a transparent admission process. For UG programmes students are admitted on the basis of their academic performance and reservation policy of the government, where as admission to courses like MCJ, MSW and M.Sc. Bio-technology are based on entrance tests, group discussion and interview. The team appreciates the college policy of providing quality education to the poor, needy and socially disadvantaged students. The working days during the last year were 260 and the number of teaching Days was 197.

The Academic Excellence Committee identifies the slow learners and advanced learners through a Post Entrance Test (PET) and bridge course is arranged of three months duration where the due emphasis is made to English language and digital skills. Advanced learners are encouraged by awarding prizes, scholarships etc and promoting peer teaching. Annual academic calendar is prepared every year. Each department prepares its own teaching plan in conformity with the academic calendar. Departmental meetings with the Heads of Departments and the Principal are also convened to review the teaching schedule. In addition to classroom teaching, project work, group discussions, guest lectures, assignments, participation in seminars, question-answer sessions, study trips are undertaken. It is worth mentioning that the college has arranged 117 invited talks for students. Teaching aids like OHP, LCD and Slide Projectors are used. Internet facility is made available to students. Every department is equipped with computer facility.

The fully automated library is equipped with adequate number of books, journals and periodicals. The college follows a mentor scheme where in each teacher is assigned a batch of 25-30 students and performance of students is monitored and necessary corrective measures are pursued. To have a better knowledge about student background the tutors also visit the houses of their wards. The college has now 87 teaching and 52 non-teaching staff of them 35 teaching and 18 non – teaching staff are paid by the management. The faculty

15.3.07

selection is made on the basis of rules and regulations laid down by the UGC and the state government. For add-on and enrichment programmes, ad-hoc instructors are appointed by the management. The teacher-students ratio is 1:18. The number of Ph.D.'s is 20 which constituents 40% of the permanent faculty. The encouragement is very evident by the incentives provided to the staff members to attend various academic activities such as refresher course/ orientation/ FIP programmes, conferences, seminars, workshops, etc. During post accreditation period 10 teachers have availed FIP of UGC. 4 Orientation and 31 refresher courses, 50 international, 240 national and 424 seminars / workshops / conferences were attended by faculty members. 8 Papers were presented by teachers in international and 35 papers in national seminars. A few teachers are the members of the professional bodies and some worked as resource persons.

In addition to the mandatory self-appraisal , the college collects appraisal of teachers from students regularly to identify the areas of improvement. During the post accreditation period, the college won the Sr.Hedwige National Award instituted by the Xavier Board of Higher Education in India for value based education in the year 2005-06 and also three teachers were chosen for the Best Teacher of the Year Award instituted by Pavanatma Educational Agency. The HOD of Journalism won the Rastriya Gaurav Award instituted by the India International Friendship Society for excellence in Journalism research and training in 2005. The college has also won the Best Women's College Trophy for the University arts festival in the years 2005-06 and 2006-07.

Criterion – III Research, Consultancy and Extension:

The college has been providing research culture. 20 Teachers of the college have obtained Ph.D. degrees that constitutes 40% of the permanent faculty and 34 M.Phil. holders 10 Teachers of the college have availed the benefit of FIP of the U.G.C. during 2001-06. There is forum called Guidance in

15.3.07

Research and Consultancy Enhancement (GRACE) to facilitate research and consultancy in the college. During the post accreditation period the college has undertaken two projects of Rs. 1.53 lakhs funded by STED and NBHM and 13 minor projects of Rs. 7.35 lakhs, 12 funded by UGC and one by KSCSTE. The recommendations of the previous peer team to explore the possibilities of mobilizing resources through various funding agencies is made by the institution to some extent and several projects are undertaken. The college also promoted projects to the tune of Rs. 2.4 lakhs. The Department of Mathematics is an approved Research Center. Currently one candidate has registered for Ph.D. The fact that during the post accreditation period, the faculty have published 25 research articles in international journals and 22 in national journals is a significant achievement of the college.

The present faculty members have published 13 books on proceedings of conferences and presented papers in 8 international conferences and 30 national conferences. 59 Teachers have also served as resource persons in various seminars. For the past 5 years the college has organized 15 national and 4 international conferences and 77 state / regional / other conferences. The college is brining out a research journal annually. The college is also associated with NGOs, linkages with number of institutions and research institutes. Some informal consultancy is provided by many faculty members. The college may encourage formal consultancy for generating more resources for development of the research facilities.

The college has undertaken many social and extension activities and outreach programmes. The college has one NCC wing and two NSS units. Various extension activities such as tree planting drive, mushroom cultivation, nature awareness camp, medicinal plants supply project, drinking water analyzer, adolescence conscientisation programme, blood donation camps, awareness programmes against chicken gunia and AIDS are undertaken. The Students of the college also participated in the relief works in Gujarath, Orissa, Lathur and Tsunami-hit areas.

The college has also undertaken several extension programmes for under privileged women, to create an awareness and to empower them, such as interest free micro credit scheme for the women slum dwellers, bilingual literacy projects, Amruthadhara projects an integrated nutritional programme for Anganawadi teachers etc. Promotion of consultancy services in and around the region and expansion of welfare schemes which were suggested by the previous NAAC peer team are implemented to some extent.

Criterion IV: Infrastructure and learning Resources:

The college has a vast campus over 19 acres with adequate infrastructural facilities. These include adequate class rooms, library, laboratories. Seminar hall. Hostel, health center, gymnasium, residential accommodation for teaching and non-teaching staff, sports fields, workshops, indoor stadium, auditorium, computer center, canteen, chapel, history and zoology museums, crèche ,etc.

The central library has 52,500 books , 350 pieces of digital wares. The college subscribes to 250 magazines, 25 Indian journals, 3 foreign journals and 41 peer reviewed journals. The library is kept open from 8 a.m. to 7 p.m. on all working days and from 8:30 a.m. to 4 p.m. on holidays. Every year a good number of books and journals are added to the library. During the last 5 years 7009 books and 71 journals / periodicals were added at the cost of Rs. 8,12,424. The library is fully automated with FUTURE SOFT software. The average number of books issued/returned per day is 300 and the ratio of library books to the number of students enrolled is 1:33. the average number of students who visit library is 300-400 per day.

The laboratories of the college are well maintained . In the last academic year Rs. 9.8 lakhs were spent on maintenance and upgrading computer facilities. The college has a total of 150 computers. . The college has two hostels for girls and 235 girls are residing in them. There is a health center where in free consultation facilities are provided to staff and students by a gynecologist and a

physician once a week. Canteen with a seating capacity of 120 is open on all days. All the departments of the college are linked by intercom facility and have computers.

The college has an excellent indoor stadium complex which include courts for basketball. Volleyball, shuttle badminton, ball badminton, table tennis, lawn tennis, gymnasium, judo and wrestling. It also has a football field, 200 meter track and facilities for hockey, softball, cricket, kho-kho and kabaddi. Recently 8 archery kits, 40 judo/wrestling mats and 13 judo costumes are added. There is a yoga center also. It is worth mentioning that the facilities of the college are extended by an investment of Rs. 2.2 crores in recent years on various heads like,St.Joseph's Annex, biogas plant, generators, transformers, expansion of computer laboratory, rain water harvesting system, mini outdoor stadium, cable TV system, office automation, internet kiosk of 11 terminals, Canara bank extension counter, canteen expansion, lab equipment, reprographic and fax facilities, open air stage, herbal medicinal garden, etc.

The infrastructure facilities of the college are also being used by the external agencies for various purposes like competitive examinations, valuation camps, elections, training programmes, social and religious programmes. The college is making optimal use of the available infrastructure facilities.

Criterion V: Student support and progression

The college has on its rolls 1623 students which include 5 from other states. 76% of the students are from remote rural and educationally and economically backward areas. The college updates and publishes prospectus every year with detailed information about courses offered, rules and regulations., fee structure, hostel and extension services. The college also provides handbooks and calendar which give details about staff, college activities, prayer, services, prizes and awards instituted etc.

Economically challenged students are supported through scholarships, freeships and endowments. During the post accreditation period an amount of Rs 28 lakhs was offered to students for various purposes.

To mark the silver jubilee year , the college donated an amount of Rs 25 lakhs to homeless and during the post accreditation period the college contributed a sum of Rs. 7.5 lakhs for the construction of 15 houses.

The college management has also provided noon-meal and financial aid for study tours, study materials and equipments to the poor students.

The placement activities are taken up and monitored by the Human Resource Development Cell which organizes seminars, provides counseling on careers and emphasizes the importance of self-employment. The Alumni Association has taken up the responsibility of sponsoring academic events. It has also instituted scholarships, awards and prizes, installed a telephone booth and a fax machine. On the occasion of the Golden Jubilee celebration of Sr. Franco, the founder principal, the alumnae instituted an endowment of Rs 1 Lakh. The involvement of alumni association in college development is highly appreciable. The college observes January 26, every year, as the Alumni Day and also brings Alumnae Newsletter every year.

The grievance redress cell has been functioning in the college and is attending to the student problems. The professional counseling center, Darsana and the Social Work Department also provide counseling services to students and to public. The Women's cell organizes various awareness programmes for the empowerment of women. The various clubs and organizations provide opportunities for the promotion of literacy and cultural activities. The college has bagged prizes in the inter-zonal competitions of the university for several years.

The encouragement and support offered by the college for the promotion of sports and games have produced prizes at the state/inter university/university level competitions. The college provides various avenues for leadership development quality among the students through NCC and NSS. In 2003 one N.C.C. cadet Jane Joseph represented Kerala and Lakshadeep in the Republic
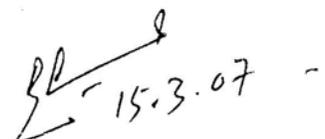
Day Camp at New Delhi and was chosen as the Best Cadet from the state. She also visited Singapore under Youth Exchange Programme 2005. Last year 2 cadets participated in trekking camp held in Sikkim. The college was also the host to the Combined All Wing Training Camp which was held in June 2004 in which 600 cadets representing various districts participated.

The academic record in terms of pass percentage is between 90% and 100%. Quite a good number of students secured first classes and ranks in the university examinations. After completion of UG and PG courses, students are motivated to pursue higher studies. During 2005-06, 85-90% of UG and PG students pursued for higher studies. The students of M.S.W. have got hundred percent placements. The drop out rate is almost negligible. During various competitive exams out of 200 PG students appeared in the last 5 years 18 students passed NET, 198 SLET, 6 GMAT and 45 have passed in GATE.

Criterion VI : Organization and management

The organization structure consists of the Governing Council, Staff Council, IQAC, College Union, Association of teaching and non-teaching staff and various committees. The Principal acts as an important link between the management and the college. The Governing Council meets at least twice a year to take crucial decisions pertaining to effective working of the college. The staff council comprises the Heads of various departments and two elected representatives of the staff. The principal convenes the staff council at least once a month. The activities of various committees are coordinated by the staff convener nominated by the principal. The college has an effective internal coordinated monitoring mechanism. An efficient audit system is also maintained for fair and smooth functioning of financial matters. The accounts are duly audited by the chartered accountant appointed by the management and by the government officials appointed for the purpose.

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,e main financial resources of the college during the last year are grants-in-aiᴄ from the government to the tune of Rs. 1,90,89,574, fees Rs. 8,58,223.35, donation Rs. 11 lakhs and from self funded courses Rs. 51,40,000. The college also collected Rs. 1.53 lakhs for major research projects and Rs. 7.35 lakhs from UGC and other organizations for minor research projects during last 5 years. The financial help was also given to many students during post accreditation period and it amounted to Rs. 28 lakhs. The management is paying salary to 35 teaching staff, 15 non-teaching and 3 technical staff. For teaching and non-teaching staff some welfare schemes are in existence. During the last 5 years Rs. 9,43,641 loans, Rs. 1,04,000 for medical purposes and Rs. 2,60,000 for crèche were provided by the Management.

It is worth mentioning that during the post accreditation period the institution implemented the development of following infrastructural facilities-construction of annexe building, library building extension, automation of administrative machines, library, bar coding, installation of LAN, internet, laser digital reprographic facilities, 110 computer systems, opening of a new computer lab, audio visual room, commissioning of M.Sc. Bio-Technology and Media labs, construction of 200 meters 8 lane track, standard football court, fitness center, yoga center, judo / archery training facility and outdoor roofed mini stadium. New UG and PG courses and value added courses were also started.

Criterion VII :Healthy Practices

The college has effectively attempted to create an ambience and infrastructure which promotes quality education, value based knowledge and a congenial atmosphere for the overall growth of students. The college has well defined goals and objectives for the academic, curricular and extra curricular activities. The college community is totally dedicated to fulfill its mission.

- There is promotion of research activities among its faculty members in conducting and participation of seminars, conferences and workshops,

publishing research papers and books. A good example is of setting up of a Research Forum GRACE, and a research publication RAYS annually.

- Value based educational programmes are undertaken.
- Evaluation of performance of teachers and students feedback and self-appraisal has been made mandatory to enhance quality of education.
- Remedial coaching/bridge courses are arranged for the students who are weak in subjects.
- Mentor scheme has helped to establish a close rapport with students and to solve their academic and personal problems.
- Starting and conducting of vocational/skill improvement programmes.
- A good number of community extension activities has created an awareness among the communities.
- Family oriented education offered by the college is appreciable.
- Student evaluation of teachers ensured quality education.
- The college is trying to make use of modern technology in academic and administrative processes.

SECTION III

Overall Analysis:

The Peer Team after going through the earlier peer team report and Re-accreditation report submitted by the college and its on the spot analysis of infrastructure, academic, curricula and co-curricular activities of the college, consider that there are certain features of the college that deserve commendations:

COMMENDATIONS:

- The team appreciates college policy of providing quality education and empowering women in many ways specially starting numerous add-on/

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enrichment courses, introduction of 4 PG and 2UG under self-financing stream during the post accreditation period.

- The research activities in the departments of Mathematics, commerce and Chemistry are appreciable.
- The examination results are impressive.
- Management structure is coherent and takes interest in the healthy growth of the institution.
- It is worthwhile to mention here that the teachers are motivated to organize, attend seminar/conference, present papers and to undertake research work.
- The college is making good use of technology for teaching –learning, evaluation, office administration and library.
- Students performance in academic, sports and in cultural activities is admirable.
- Introduction of mentor scheme to establish a rapport between students and teachers and for closely monitoring students progress is good.
- The college has developed an effective system for collecting feedback from parents, students and other stakeholders for proper evaluation and appropriate actions.
- Remedial courses are conducted to help slow learners for better performance.
- Participation of the institution with community in a number of developmental programmes is also a remarkable feature.
- The harmonial and cordial relationship among students, teachers, non-teaching staff, principal and the management is worth praising.
- The campus is well maintained to create good academic ambience.
- Involvement of Alumni Association in the developmental activities of the institution is a significant factor.
- Sports activities specially indoor stadium facility for girls need a word of appreciation.

RECOMMENDATIONS / SUGGESTIONS:

The Peer Team would like to make a few suggestions keeping in view the future growth of the college and its march towards quality and excellence.

- The college may explore the possibility of introducing more options at the B,Sc level such as Microbiology, Environment Science and Computer Science, at B.A level Fine Arts and Fashion Technology.
- Considering the healthy research atmosphere in the college, the quality of research needs improvement.
- The training at the PG Level may be suitably changed to help the students to face the CSIR / UGC-NET / SLET / IAS and other national / state level competitive examinations.
- Since the college has a high profile Alumni it can be explored whether some specific projects can be taken up with their full support and also more endowments cash prizes may be instituted with the cooperation of prominent individuals and institutions of the locality.
- There is a good scope for close interaction with industry to promote greater employment opportunities to improve consultancy, technology oriented project and field work, etc.
- The institution may tap resources from various funding agencies like UGC, ICSSR, ICHR, HRD, Social Justice and Women Empowerment etc and to utilize the same effectively for minor and major research projects.
- Career guidance and placement cell can play a proactive role in facilitating more number of campus recruitment of students by private/public companies or government agencies.
- Teachers may be encouraged to take up consultancy assignments both formal and informal as a source of mobilization of funds to college programmes in a greater way.

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- Each teacher may also prepare an annual plan of action containing the quantitative and qualitative goals and objectives and the strategies needed to achieve.

- As the college has good infrastructure facilities, committed faculty and dedicated supportive management , it may opt for autonomous status.

The Peer Team wishes to record its appreciation to the governing body members, principal. all members from teaching and non-teaching students, parents and alumni for their esteemed support and cooperation and hospitality provided during the college visit. The Peer Team is of the opinion that the exercise will be useful to the college in strengthening the quality and developing strategies for achieving further growth and development.

The team wishes the institution success in their future activities and developments.
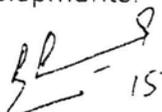
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Prof. Dr. R.S. Mali
Chairperson
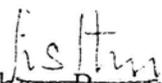
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Member Coordinator
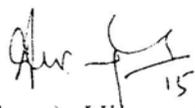
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Prof. (Smt.) Vijaya H.V.
Member

I have gone through the Report and agree with it.
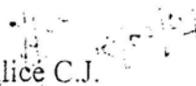
Dr. Sr. Alice C.J.
Principal
St. Joseph's college Irinjalakuda

PRINC
St. Jos
Irinjal

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

St. Joseph's College

Irinjalakuda, Dist. Thrissur, affiliated to University of Calicut
Kerala as

Accredited

at the B^{++} level.

Date : March 31, 2007

Director

St. Joseph's College

(Affiliated to Calicut University and accredited by NAAC)
Irinjalakuda 680121, Thrissur District, Kerala State
Tel 0480 2825358 Fax 0480 2830954 Email info@stjosephs.edu.in

Dr.Sr. Anee T K   MSc, MPhil, PhD

Principal

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

31.01.2013

Signature of the head of the institution

Principal
St. Joseph's College
Irinjalakuda P.O
Thrissur (Dt.) Kerala
Pin - 680 121

Place: Irinjalakuda
Date: January 31, 2013

Undertaking

This is to certify that St. Joseph's College Irinjalakuda, Thrissur, Kerala fulfils all norms

1. Stipulated by the affiliating University and

2. Affiliation and recognition is valid as on date

In case the affiliation/recognition is conditional then a detailed enclosure with regards 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 looses its University affiliation or recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by our institution found to be false then the accreditation given by NAAC is liable to be with draw

The undertaking given to NAAC is also displayed on our institutional website

Principal/head of the Institution

Dr. Sr. ANEE T.K.
PRINCIPAL
ST. JOSEPH'S COLLEGE
IRINJALAKUDA

Date: 31 January, 2013

Place: Irinjalakuda

ST. JOSEPH' S COLLEGE, IRINJALAKUDA

(Affiliated to the University of Calicut and Re-accredited by NAAC, B++,2007)

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