



St. Aloysius College Edathua

Alappuzha, Kerala, India. 689573

Affiliated to Mahatma Gandhi University, Kottayam

SELF STUDY REPORT In respect of THIRD CYCLE OF RE-ACCREDITATION - 2013



Submitted to
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BANGALORE - 560072



ST. ALOYSIUS COLLEGE

(Affiliated to Mahatma Gandhi University, Kottayam)
EDATHUA, ALAPPUZHA DIST., KERALA – 689573, INDIA

Date:

To

The Director
National Assessment and Accreditation Council
P.O. Box 1075
Bangalore – 560 010

Sir,

Sub: Self-study report for the third cycle of re-accreditation

In accordance with the LOI requirements, we are very happy to submit the Self - Study Report of our institution from 2008 - 2013 in respect of the Third cycle of re-accreditation for the NAAC peer team evaluation.

The preparation of this report has enabled us to analyze our potentials for quality sustenance. We transfer them to the holistic development of the stake holders.

We look forward to your co-operation and guidance in the peer team inspection for the validation of this report.

Thanking you,

Yours faithfully

Edathua

Principal

Date: 17.7.2014

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N.B: In compliance with the NAAC guidelines, appendices have been avoided except the required documents. The other relevant documents will be produced to the Peer team on their visit to the campus.

PREFACE

With immense pleasure I am submitting the Self Study Report (SSR) of our institution St.Aloysius College, Edathua to the National Assessment & Accreditation Council (NAAC), Bangalore for the 3rd Cycle of Re-accreditation in observance of our LOI requirements for further quality sustenance, enhancement and improvement of the college.

The preparation of this report has provided us an opportunity to review and analyse the institutional progress after the first and second accreditation and further strengthened us in our quest for Quality in years to come. The Internal Quality Assurance Cell, established on 01.06.2000 has been instrumental in the catalytic improvement in the overall performance of the institution.

The college was accredited by NAAC peer team on 07.02.2001 for the first time and placed in three star level and re – accredited on 10.2.2007 with B+ level. During this accreditation period the institution complied with the recommendations of the Peer Team in a planned and systematic manner.

This report is the outcome of the collective efforts of the entire Aloysian community. I deeply appreciate the wide involvement and sincere, collaborative effort of the entire team especially NAAC, IQAC and UGC cells. An iconic institution carrying the heritage and tradition of the one time granary of Kerala, the college is striving to carve a niche for itself on the world education map by adopting innovative initiatives, acquiring new skills and employing new techniques.

Hope we shall have the pleasure of hearing soon from you on your decision on Peer Team Visit for Inspection.

Dr. P.C. Aniyankunju
Principal

EXECUTIVE SUMMARY AND SWOC ANALYSIS

St. Aloysius College, Edathua, now on the threshold of its Golden Jubilee, is opting for NAAC reaccreditation of the 3rd cycle. Situated amidst the green paddy fields of Kuttanad, a Globally Important Agricultural Heritage System (GIAHS), the college bears the characteristics of the locale, which have shaped the vision and mission of the college. Established in the year 1965, as a junior college, it was the only seat of higher learning in the region. The institution envisions the formation of global citizens with academic excellence and integrity of character. The sincere efforts to translate the vision into practice, set the mission of the institution - to mould the students as skilled, worthy, global citizens who can uphold the values of peace, fraternity and love.

A strong commitment to the people it serves has inspired the institution to pass through various stages of growth on its way to scale the heights. Now, at the age of 49, the institution has grown into a premier educational institution attended by 1061 students, served by a team of 74 faculty members and 21 supporting staff.

The college offers conventional and vocational programmes, enriching, skill acquiring, extension programmes, co-curricular and extra-curricular activities.

CRITERION I – CURRICULAR ASPECTS

The college offers 9 UG and 5 PG courses, a Research Centre in Commerce and a number of curriculum supporting programmes in conformity with the university curriculum, for achieving the vision and mission of the institution. Following the introduction of CBCSS and curriculum reforms by the Mahatma Gandhi University, the institution has taken appropriate measures for the benefit of the stakeholders. The institution is very particular in offering skill-oriented programmes relevant to regional and global employment market and a varied number of enrichment programmes that add colour to the lives of the stakeholders and transform them into worthy citizens. Eco-friendly activities have brought a lush green appearance to the campus, rendering it plastic-free, hazardous free and e-waste free. The college encourages the students to grow in their cultural, social and religious traditions. The students are infused with moral and ethical values. As a Catholic institution faith formation of the Christian youth is given prime importance.

A structured feedback system has helped the institution to introduce several UG and PG courses, open courses and more enrichment and extension programmes. Academic excellence, global employability, formation of moral uprightness, social acceptance, psychological integrity and spiritual maturity in the students are the main tasks of the institution.

CRITERION II - TEACHING AND LEARNING EVALUATION

The institution furnishes ample publicity to admission matters and adheres to strict transparency in admission procedures. There have been great demands for all the UG and PG programmes owing to the peaceful and congenial atmosphere prevailing on campus, discipline, better results, infrastructural facilities and a teaching-learning method suiting to the intellectual potencies and needs of the students. Majority of the student community in the college is girls (56% in 2012 – 2013) and they are provided with all amenities and academic support. Special support schemes are initiated for the economically weaker sections and they avail themselves of government and

institutional scholarships and free ships. Differently-abled and visually-impaired students are ensured of all available facilities. Bridge courses promote and motivate them in the study of the subject selected. Remedial coaching, and peer teaching are exclusively provided for the slow-learners while the advanced learners are boosted with exposures and leaderships to various organizations and clubs. Harmonious existence of opposite sex on mutual respect is of prime importance to the college. Sensitization of issues such as gender, inclusion, environment and legal matters are widely propagated through the activities of Equal Opportunity Centre (EOC), Women's Forum, legal cell, anti-ragging cell, NSS and through publications of newsletters, wall papers and manuscript magazines. A great service is rendered by the counsellors and mentors.

IQAC of the college plans and organises the teaching, learning and evaluation schedules. It is instrumental in providing infrastructure, ICT facilities and learning resources. It monitors all activities, evaluates them and carries out academic audit. The teaching method evolved in the institution nurtures proper attitude, critical outlook, creativity and scientific approach among the students.

The management insists on teacher-quality by harnessing potentials of well qualified and competent teachers with commitment to the profession. The management encourages them to take part in various staff development programmes/ seminars/ workshops.

Continuous evaluation, internal examinations, seminars, assignments are part of the internal assessment. The parents are timely informed of their wards' performance and position. Grievance redressal-mechanism works effectively. Learning outcomes are also ensured.

CRITERION III - RESEARCH, CONSULTANCY AND EXTENSION

The institution has a colourful record of research work. The research centre instituted in the Department of Commerce functions with 5 scholars, doing their work under the guidance of two research guides, leading to Ph.D. There is an increase in the number of M.Phil/PhD holders among the faculty from 9 in 2008 to 21 in 2013. Around 62% of the total teaching faculty is actively engaged in research work so as to get their maximum expertises in the respective departments. The institution hosts National seminars, wherein research scholars and resource persons interact with the academic community.

The institution encourages the faculty members and students to avail themselves of funding for pursuing their project works. It ensures optimal use of various equipment and research facilities. The faculty members availed themselves of an amount of Rs.16,88,000 for their minor research projects from various funding agencies.

The institution gives due prominence in institute-industry interface and more than 25 study- research visits have materialized since last accreditation. A number of eminent personalities visit the institution for developing scientific temper, research culture and aptitude among students.

The institution ensures the institution-neighbourhood-community network and students' engagement in these programmes. The institution solicits stakeholder perception on the overall performance and quality of the institution.

CRITERION IV – INFRASTRUCTURE AND LEARNING PROCESS

The management provides all possible amenities and facilities in tune with its vision and mission to impart education in congruence with the changes in the educational scenario from time to time. The three-storied building houses the principal's office, the general office, all main departments, spacious class rooms, the AC seminar hall, AC smart room, laboratories, the counselling room, offices of ABC and the library. The old buildings have been well renovated so as to provide room for self-financing courses, the canteen, the women's hall and the Heritage Museum. The institution has a capacious auditorium with almost 1500 seats, a mini auditorium, a fully furnished women's hostel, courts for basketball, volley ball, badminton, hockey, football and cricket and a – 400 - Metre track-field. For curricular and co-curricular activities the institution has provided technologically enabled learning space - smart room with all IT gadgets, Net resource centre, Computer lab, Research lab, Computational Lab with MATLAB and MATHEMATICA, Language lab, Zoological Specimen Museum and Microbiology lab, Kuttanad Heritage Museum, Automated library operating on SOUL system, PA system, Xerox centre and Electronic workshop. The institution has to its credit all these infrastructure facilities and amenities and they have been optimally used for teaching-learning activities. Health care provisions are also attended to. The library with adequate number of volumes, journals, INFLIBNET, e-reading are other learning resources that augment the curricular activities. Computer facility is available on campus which is made use of by the faculty and students for every academic activity. These facilities promote independent learning and leads to student-centric teaching-learning process.

CRITERION V - STUDENT SUPPORT AND PROGRESSION

The college prospectus contains the rules of the college, details of courses offered and various amenities available in the college. The handbook published annually incorporates all sufficient details on the courses, Research Centre in Commerce and various curriculum supportive programmes under ABC. The supportive activities are aimed at students' holistic development, self realization and zeal for the nation building. This inbuilt and ongoing mechanism for student support and progression helps to flourish their academic, intellectual, creative, communicative and employment skills.

A harmonious co-living of both the sex with due respect for each other, abiding by the rules and regulations, developing a code of conduct acceptable to all, ragging-free and campus-friendly attitude enrich their lives. Charity initiatives are encouraged among the students to inculcate social responsibility, commitment and a concern for the less privileged. Value education, pro-life activities and life-guidance courses help to perfect the being in them.

CRITERION VI - GOVERNANCE, LEADERSHIP & MANAGEMENT

St. George Forane Church, Edathua, gives a strong and continuous governance to the institution. An efficient administration, participatory, flexible and transparent in nature, provides operational autonomy to all the functionaries to work towards a decentralized governance system. The staff council and advisory bodies through need analysis, inputs, and interaction with the stakeholders evolve quality-policy and formulate all action plans for reinforcing the culture of excellence. The smooth functioning of the

institution in all matters of academic activities, administration and implementation of the action plan charted out by the IQAC, is ensured by the co-ordination of all functionaries through frequent meetings, discussions and evaluations. The college is committed to groom leadership at various levels of both the faculty and the students within and the outside the campus. Academic excellence is also made possible by constant reviews: self-appraisal of teachers, evaluation by the stakeholders, campus evaluation by the students and academic audit carried out by the IQAC. An effective mechanism for the redressing of grievances in the institution builds mutual trust and confidence among the faculty and students. The management promotes and carries out faculty empowerment strategies by ensuring their participation in orientation /refresher/seminars/workshops, availing of funds for competence building, providing learning resources and welfare schemes. The administrative staff is also encouraged to update themselves by attending workshops and training programmes. The management taps optimal financial support from the UGC and meets deficit from its own sources. Transparency in financial dealings is assured through the internal and external audits.

CRITERION VII - INNOVATIONS AND BEST PRACTICES

Situated in a region which is severely polluted and thus eco-impaired with an excess dose of pesticide and fertilizers, the college has a great role to play in arresting environment degradation taking place in the region. The institution sensitizes its concern regarding the climatic changes and environmental issues and the measures needed to protect the environment for the future generations. Tree-plantation, carbon neutrality, rain water harvesting, energy conservation and e-waste management, transform the campus into eco-friendly, plastic-free and green. Bhoomithrasena, NSS, Nature and Energy Club, Thanalkoottam, ASCK, Women Empowerment Programme, RELP and Aloysian Neighbourhood Programme streamline their activities in this direction.

The institution pursues its goals and objectives through innovations like eco-friendly activities skill acquisition, enriching, extension and Aloysian Neighbourhood Programme. The students become resourceful, value oriented, nature-friendly, disciplined and ambitious. The campus with its lush green atmosphere and innovative practices promote the creative, intellectual and communicative skills of the students.

The institution has clubbed the innovative practices into two best practices – eco-friendly activities and Aloysian Neighbourhood Programme which have exerted deep impact on the academic, environmental, social and cultural atmosphere of the campus.

SWOC ANALYSIS

Strengths

St. Aloysius College, a premier educational institution in the region of Kuttanad with a serene and peaceful ambience conducive for academic activities is always a safe haven for the less privileged youth of this water-logged remote region of Kuttanad.

The visionary management supported by prominent administrators and academicians give a strong and continuous leadership to the institution throughout its sojourn to the present status.

The college has a strong and active staff council which assists the principal in administrative and academic activities by evolving plans for curriculum and curriculum – supporting activities, maintaining discipline and utilizing the income generated from financial sources for the development purpose of the institution and improvement of the facilities to the stakeholders.

Adequate infrastructure, well-equipped labs, ICT aided teaching – learning facilities and learning resources, INFLIBNET and N’ List accessories lead the stakeholders to academic excellence.

The college is blessed with a committed faculty and supporting staff who are always keen to enhance and update their knowledge and skill through various staff development programmes. As role models to the student community, they provide individual care through mentoring and counselling.

The institution recruits competent and research – oriented faculty solely on the basis of merit.

Research tempo in the institution has accelerated and a good number of faculty members are involved in major and minor research projects. Research centre in commerce, research fraternity and research lab have their share in promoting research culture on campus.

The college encourages ICT teaching-learning methods. A smart room with all modern IT gadgets, Broadband connections in all the departments, LAN in the UGC Net Resource Centre, INFLIBNET and N-list in the library and other learning resources strengthen the learning process.

A good number of platforms offered to the students under the banner Aloysian Beyond Curriculum (ABC) aim at the holistic development of students. The curriculum supporting activities, enrichment, extension, skill acquiring and eco-friendly activities nurture and refine their soft, life, intellectual, literary, social, leadership and vocational skills.

Vibrant activities by NSS, NCC–(Army and Naval) units have fostered leadership, social commitment, ‘Nation First’ thoughts in the mind of the students.

The college has groomed an efficient event management team of students under the banner ‘Sky Up’ who organises academic, cultural and public functions in the college.

Eco-friendly activities initiated on campus under “BHOOMITHRASENA” brings a refreshing appearance to the campus. The activities influence the students to engage in eco-friendly practices where ever they are.

The institution is proud to have a group (‘Thanalkoottam’) of budding environmentalists and nature lovers who gather to discuss the environmental issues and to maintain the campus clean and plastic-free.

Students of this college who bagged University ranks in EEM and Zoology in previous years and who won prizes in university and intercollegiate level competitions do really motivate the other students to attain academic achievements.

The institution has an outstanding record in aquatics, sports and games. Several international and national champions are indebted to the institution for their growth and achievements.

The college enjoys the patronage of former faculty members, alumni and well-wishers who provide all kinds of assistance—academic, infrastructure, scholarships, financial and entrepreneurial support through their organisations.

The institution has an enduring networking with beneficiaries in every walk of life specially with research centres and marine centres which have benefited the students academically and entrepreneurially.

The strong and supportive PTA is the backbone of the institution. It provides all kinds of assistance – academic, advisory and financial, to the institution.

A structured feedback system and grievance redress system have a share in the introduction of various UG and PG programmes, enrichment modules, skill acquisition programmes and a positive attitude towards the internal evaluation system.

Drinking water facility on campus, especially in a water polluted region, is provided through bore well and RO purifier system. Four generators of various capacities provide power supply on campus.

A communion of the faculty members, ‘the staff association’, works for the welfare of the members, offers a platform to share their joys and sorrows, actively involves in the realisation of the rightful needs of the student community and supports the principal and the management in materialising the vision and mission of the institution.

The college has the status of a minority institution. It gives importance to faith formation of the Christian students.

The institution has exemplary practices like charity initiatives, visits to the less fortunate victims housed in orphanages and homes for destitutes and provision of noon day meals (once a week) to the inmates of ‘Snehabhavan’.

There is residential facility for 50 girls in the Marian Women’s Hostel for women with all amenities and security measures. Residential facility is made available by the neighbourhood forum for boys.

The feeling of oneness, cooperation, moral support and mutual love expressed by each and every member of this institution – faculty, supporting staff, students, parents and alumni – builds up the Aloysian Family, a very rare experience in any of the academic community.

Weaknesses

The cumbersome technical red-tape formalities of the university and government pose hurdles in appointing permanent faculty and supporting staff for filling up vacancies as and when a course commences.

Insufficient number and untimely dropout of guest lectures badly affect the smoothness of academic environment.

New models of UG and PG programmes required by the students cannot be started owing to the non-flexibility in academic freedom.

The CAP system forces students to accept the allotted colleges far from their residence which consequently render much hindrance to their studies.

As the college is situated in a rural area with low economic status, economical strains hinders many of the stakeholders from achieving their goals as compared to those in educational institutions situated in high-tech cities.

Majority of the feeder schools are vernacular – based. The students lag behind in communication skills and fluency in English language. An inadequate exposure obstructs many of them in advancing their cultural and artistic skills. However the institution spares no effort to improve their communication skills and shed their inhibitions.

Lack of swimming pool and an indoor stadium stand in the way of many potential aquatic and sports and games aspirants.

Opportunities

The Departments of Mathematics, Physics and Zoology can be raised to research centres as they meet all the requirements needed for being established as research centres.

The generous approach from UGC and other funding agencies in accepting and offering research grants is an area of ample opportunity to the existing faculty.

The constant interaction with beneficiaries enhances placement opportunities. Such exposures motivate the students to entrepreneurship. The reformed course structure also is an added boon to the job seekers.

The acceleration of research tempo among the faculty members inspire the students to take up research projects. Many of the students utilise the facilities of research lab and participate in the undertakings of research fraternity.

The new learning resources, ICT and adequate infrastructure made available on campus can be tapped by the faculty and the students.

Scholarships, endowments and cash prizes instituted by generous alumni, former faculty members and well-wishers help to overcome economical constraints of a good number of students.

The institution's plan to introduce new programmes in BA Malayalam, B.Sc Computer Maintenance and Electronics, B.Sc Physical Education (UGC sponsored), M.Sc Zoology (Aided) and several career oriented programmes will be beneficial to stakeholders.

Challenges

The poor socio-economic backgrounds of the students cause several problems and stand in their way in completing the programme successfully.

Poor communication skills and lack of fluency in English language blow off the enthusiasm of the new comers. Majority of the feeder schools are vernacular based and do not promote proper communication skills and fluency in English language.

The semester system brings in time constraints –

- 1) Posing difficulty in completing the prescribed syllabus in time
- 2) Posing difficulty in organizing sufficient number of curriculum supporting activities
- 3) Delay in conducting examinations and announcing results.

Owing to great demand for all the courses, the college is forced to admit students beyond the sanctioned strength through marginal increase. The infrastructure and resources of the college become inadequate as the strength of the students reach 100 particularly in the case of classes for common course in English.

Natural calamities including flood and disease outbreaks affect the smooth academic functioning.

Hartals by political parties and strikes by students also result in the loss of working days.

Future Plans

With the aim of catering to the growing demands of the stakeholders, the institution has evolved the following plans for immediate implementation.

❖ Infrastructure

Proposals have been put up for the construction of :-

- Jubilee Memorial Block
- Staff quarters
- Library block
- P.G Block
- Men's hostel
- Toilet Blocks for boys and girls
- A tower for sky watching

❖ Academic

Applications are forwarded for getting the sanction for the following courses:-

- B.Sc. in Physical Education – Clinical Exercises & Practices (UGC sponsored)
- B.Sc in Physical Education – Tourism & Health Allied Sciences (UGC sponsored)
- B.Sc. Electronics and Computer maintenance (Self financing)
- B.A Malayalam (Aided)
- M.Sc. Zoology (From Self financing to Aided).

Proposals also are made for research centres in :-

- Physics,
- Mathematics
- Zoology.

❖ Sports

Plans have been submitted for constructing a standard swimming pool, indoor stadium and renovation of basket ball court.

❖ ICT Facilities

- ❖ A smart room for each post graduate department
- ❖ Wi-fi connection facility
- ❖ Furnishing the media room
- ❖ Initiating student information system

❖ Career Oriented Programmes

Following career oriented programmes have been proposed and await the university sanction.

- Electronic PCB Designing and Fabrication
- Yoga and Fitness Management
- Hospital Administration
- Communication Skills and Employability Techniques
- Capital Market
- Entrepreneurship Development
- Supply Chain & Logistic Management
- Proposals are made for organizing National Seminars in Physics and Zoology
- The management intends to commence a management institute and a community college.
- An audio-visual presentation on the college and its activities
- Establishing alumni chapters both inside and outside the country
- Undertaking more minor / major research projects

PROFILE OF ST. ALOYSIUS COLLEGE, EDATHUA

1. Name and Address of the College:

Name :	ST.ALOYSIUS COLLEGE	
Address :	ST.ALOYSIUS COLLEGE, EDATHUA	
City : ALAPPUZHA	Pin : 689573	State : KERALA
Website :	www.aloysiuscollege.org	

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. P.C. Aniyankunju	O: 04772210564 R: 04812338114	9447660363	0477 2212264	principalsaceda@gmail.com
Vice Principal	Dr. K.C. Mathai Asso. Prof. in Physics	O: 04772212264 R: 04772219105	9447977410		kcmathai25@gmail.com
Steering Committee Chairman	Sri. Sajeev Joseph, Asso. Prof in English	O: 04772212264 R: 04812728045	9447909331		sjsajeevjoseph5@gmail.com

3. Status of the Institution: **Affiliated College**

4. Type of Institution:

- a. By Gender - **Co Education**
- b. By Shift - **Regular**

5. It is a recognized minority institution? **Yes**

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence: Religious (certificate enclosed)

6. Sources of funding:

Government, Grant-in-aid, Self- Financing and UGC.

7. a. Date of establishment of the college: 19.07.1965 (dd/mm/yyyy)

b. University to which the college is affiliated /or which governs the college (If it is a Constituent college) - **Mahatma Gandhi University, Kottayam.**

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2 (f)	20.10.1993	Certificate enclosed
ii. 12 (B)	20.10.1993	Certificate enclosed

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

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

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

Yes

If yes, has the College applied for availing the autonomous status?

No

9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)? **NO**

If yes, date of recognition: (dd/mm/yyyy)

b. for its performance by any other governmental agency? **NO**

If yes, Name of the agency and

Date of recognition: (dd/mm/yyyy)

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

Location *	Rural in the Water logged Kuttanad area
Campus area in sq. mts.	119382
Built up area in sq. mts.	11000

(* 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
 - a) Two auditorium and one seminar hall
 - b) One smart room
- Sports facilities
 - * Play ground - **Yes**
 - * Swimming pool - **Yes** (has to be renovated)
 - * Fitness Centre - **Yes** (With Basic fitness equipments)
- Hostel
 - * Boys' hostel **NIL**
 - i. Number of hostels
 - ii. Number of inmates
 - iii. Facilities (mention available facilities)
 - * Girls' hostel **ONE**
 - i. Number of hostels **1**
 - ii. Number of inmates **25 (Admission is going on)**

- iii. Facilities (mention available facilities)
- Prayer hall
 - Canteen
 - Common room
 - Recreation room.
 - Open auditorium

* Working women's hostel **NIL**

i. Number of inmates

ii. Facilities (mention available facilities)

- Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise)
- Cafeteria — **1**
- Health centre – **0**
First aid, Inpatient, Outpatient, Emergency care facility, Ambulance – **NIL**
Health centre staff – **NIL**
- Facilities like banking, post office, book shops - **One Cooperative store**
- Transport facilities to cater to the needs of students and staff - **NIL**
- Animal house - **NIL**
- Biological waste disposal – Bio Gas Plant (**Under construction**)
- Generator or other facility for management/regulation of electricity and voltage
- **Four generators**
- Solid waste management facility - **YES**
- Waste water management - **No**
- Water harvesting - **Rain Water harvesting Plant**

12. Details of programmes offered by the college (Give data for current academic year) 2013 - 14

Sl. No	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted	
1.	Under-Graduate	B.Sc Mathematics	6 Semesters	+2	English	40	35	
		B.Sc Physics				32		32
		B.Sc Chemistry				26		26
		B.Sc Zoology				30		30
		B.A.English				31		31
		B A Economics				60		60
		B.Com Tax				60		60
		B.Com Computer				52		52
		B.Sc Physics EEM				40		22

2.	Post-Graduate	MSc Mathematics MSc Physics M.Com Finance M.Sc Zoology M.A English	4 Semesters 4 Semesters 4 Semesters 4 Semesters 4 Semesters	B.Sc B.Sc B.Com B.Sc B.A	English	10 10 15 12 12	10 10 15 11 05
3.	Integrated Programmes PG	0					
4.	Ph.D.	Commerce					5
5.	M.Phil.						
6.	Ph.D						
7.	Certificate Courses						
8.	UG Diploma						
9.	PG Diploma	PGDCA	2 years	B.Sc			60
10.	Any Other (specify and provide details)						

13. Does the college offer self-financed Programmes? **Yes**
If yes, how many? **4**

14. New programmes introduced in the college during the last five years if any?
YES . **2**
1. M.A.English
2. M.Sc Zoology

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

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Science	Chemistry, Mathematics, Physics, Zoology, EEM	5	3	
Arts	Economics, English	2	1	
Commerce	Commerce	2	1	1
Any Other (Specify)				

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

- a. annual system **NIL**
 b. semester system **2**
 c. trimester system **0**

17. Number of Programmes with

- a. Choice Based Credit System **- 12**
 b. Inter/Multidisciplinary Approach **- 0**
 c. Any other (specify and provide details)

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

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?

No

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

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? **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	*	*M	*F				
Sanctioned by the UGC / University / State Government	0	0	14	5	9	14	17	3	1	0
<i>Recruited</i>	0	0	13	5	9	14	17	3	1	0
<i>Yet to recruit</i>										
Sanctioned by the Management/ society or other authorized bodies										
<i>Yet to recruit</i>										

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Femal	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	0	0	5	0	4	6	15
M.Phil.	0	0	1	1	3	1	6
PG	0	0	11	3	3	6	23
Temporary teachers							
Ph.D.	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0
Part-time teachers							
Ph.D.	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0

22. Number of Visiting Faculty /Guest Faculty engaged with the College. **28**

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	
	Male	Female	Male	Female	Male	Female	Mal	Female
SC	43	64	46	53	45	55	49	55
ST	-	-	-	-	1	-	1	-
OBC	67	139	20	76	19	57	17	66
General	198	156	95	160	85	170	50	144
Others	47	42	37	45	39	59	30	64

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

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	347	51			398
Students from other states of	-	-	-	-	-
NRI students	01	-	-	-	01
Foreign students	-	-	-	-	-
Total	348	51	-	-	399

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

UG 0.013

PG Nil

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. 28716

(b) excluding the salary component

Rs. 1332

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

No

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

SI No	Programme	Teacher – student ratio
1	B.Sc Physics	1:13
2	B.Sc Chemistry	1:22
3	B.Sc Mathematics	1:13
4	B.A.English	1:12
5	B.A.Economics	1:58
6	B.Com	1:21
7	B.Sc Zoology	1:26
8	M.Sc Physics	1:4
9	M.Sc Mathematics	1:4
10	M.Com	1:4

29. Is the college applying for Accreditation : **Cycle 3**
 Re-Assessment: **Yes**
(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 2: 07.02.2001 Accreditation Outcome/Result **Three star level**
 Cycle 3 10.2.2007 Accreditation Outcome/Result **B+**
 * **Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.**
31. Number of working days during the last academic year.
180
32. Number of teaching days during the last academic year
(Teaching days means days on which lectures were engaged excluding the examination days)
154
33. Date of establishment of Internal Quality Assurance Cell (IQAC) **IQAC 01.06.2000**
34. Details regarding submission of Annual Quality Assurance Reports (AQAR) NAAC.
- | | |
|------------------|------------|
| AQAR 2008 – 2009 | 25.08.2011 |
| AQAR 2009 – 2010 | 06.12.2011 |
| AQAR 2010– 2011 | 25.08.2012 |
| AQAR 2011 – 2012 | 29.11.2013 |
| AQAR 2012 – 2013 | 30.11.2013 |
35. Any other relevant data (not covered above) the college would like to include. (Do Not include explanatory/descriptive information.)
- ❖ College was awarded with the P T Chacko memorial award for best college in Kerala.
 - ❖ Proposals have been put up for the construction of Research block beneficial to the academic community.
 - ❖ Applications are forwarded for getting the sanction for four UG and one PG courses.
 - ❖ Proposals are also made for research centres in Physics, Mathematics and Zoology.
 - ❖ A rain water harvesting unit of the capacity of one lakh litres is installed.
 - ❖ The institution gives thrust to eco-friendly activities and neighbourhood programmes.
 - ❖ The Aloysian neighbourhood forum co-ordinates Women empowerment programmes, English language literary programme and Charity initiatives.
 - ❖ The college strengthens the programme of academic interaction of the aloysian academic community with the foreign academia on tour.

CRITERION I

CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

St. Aloysius College, ever since its inception in 1965, has left no stone unturned for adopting all possible means to implement the academic curricula designed by the university in letter and spirit for the benefit of all its students.

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

The Vision of the College

The college envisions the formation of global citizens with academic excellence and integrity of character who can champion the cause of a Just Society.

Mission of the College

The mission of the college is to mould the students as skilled, worthy and global citizens who can uphold the values of peace, fraternity and love.

The College endeavours at forming leaders who are intellectually competent, spiritually mature, morally upright, psychologically integrated, physically healthy, socially acceptable and God-fearing. It aims at the creation of a just and humane society where philanthropists are revered, where unjust social structures are challenged, where Ahimsa, religious harmony and national integration are held high and where the poor and marginalized are specially taken care of. The institution materializes the mission of reaching out to the families, primarily of the students to assist them in their needs, to share their joys and sorrows so as to make them feel that the college is their second home.

The College is open to all students and they are accepted and cherished as they are in such a manner as to grow in their cultural, social, and religious traditions. As they are privileged to be in the institution, they get a chance to be acquainted with the Person of Jesus Christ and His Gospel. The College has special concern for the faith formation of the Christian youth and always aspires for value-based training and academic excellence.

The college is blessed with a community of professionally competent and morally upright teachers with religious insight. All teachers, students, parents, alumni and well – wishers do solemnly work for the realization of the Aloysian Vision of education.

Aims and Objectives of the College

Established with clear goals in view, the College follows the educational vision of the Catholic Church for transforming it into a paradigm of academic excellence enabling the students to champion the cause of justice, love, truth and peace, shaping good character, leadership traits and healthy interpersonal relationships, acquisition of National and Social values, fostering mutual respect

and esteem for dignity of labour, developing social commitment and co-operative activities, promoting religious harmony and knowledge of all religions, along with securing the required University degree. With these aims and objectives in view, the College acts as a doorway for the underprivileged youth of the remote water-logged rice bowl of Kuttanad to pass into the realms of higher education.

The institution communicates its vision, mission and objectives to the students, staff and stakeholders through:

1. **Publications:-** College Prospectus, Hand Book and Academic Calendar, Aloysian Newsletter, College Magazine, Department-wise Manuscript Magazines, News paper and College Web site.

2. **Courses offered:-**

UG Programmes	PG Programmes	Research Programme	Distance Education Programmes
B.A English	M.A. English	Commerce	M.A. English
B.A Economics	M.Sc. Physics		M.A. Sociology
B.Sc. Physics	M.Sc. Mathematics		M.B.A.
B.Sc. Mathematics	M.Sc. Zoology		B.B.A.
B.Sc. Chemistry	M.Com		
B.Sc. Zoology			
B.Sc. E.E.M			
B.Com Tax			
B.Com Computer			

3. **Curriculum Supporting Programmes:-** Aptitude test, Bridge course, Remedial Coaching, and Research fraternity.
4. **Co-curricular and Extra-Curricular Activities:-** Literary clubs and other forums under the Aloysian beyond Curriculum (ABC) umbrella, Sports and Games, National Cadet Corps and. NSS.
5. **Skill Developing Programmes:-** Additional Skill Acquisition Programme(ASAP), Finishing School, English Language Lab, Happy Home Making, Aloysian Creative Unit, Aloysian Entrepreneurial Development Club, Interaction of Aloysian Academic Community with Foreign Delegates (IACFD) and Sky Up.
6. **Extension programmes:-** Aloysian Study Centre on Kuttanad, Research lab, Electronics Workshop, Tax Consultancy, Soil and Water Test Analysis, Aloysian Neighbourhood Forum, Open School for Better English and Rural English Literacy Programme (RELP).
7. **Eco-Friendly Activities:-** Bhoomithra Sena, Thanalkoottam, Nature and Energy club, Rainwater Harvesting, Carbon Neutrality Maintenance, Hazardous waste and e- waste Management, Health Club and Yoga.
8. **Moral Doctrines:-** Value Education Classes, Life Guidance Programme, Catholic Student Movement, Student Mentoring, Student Counselling and Equal Opportunity Centre.

The vision and mission is also communicated, through the induction programmes for parents, students and teachers and meetings with stakeholders and prospective employers. The institution assists the students to assimilate the vision, mission and objectives through their participation in all regular activities during their course of study in the institution. Camps organized within and outside the campus by NSS and NCC help the students to get firsthand experience of the vision and mission of the college.

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

The college is affiliated to the Mahatma Gandhi University and it follows the curriculum prescribed by the University. Four of our faculty had been members in the board of studies of the Mahatma Gandhi University and contributed towards the restructuring of the curriculum. Majority of the faculty members attended all the seminars and workshops organized by the university in connection with the curriculum revision. The deliberations and resolutions are timely communicated to the college. Experts from the board of studies are also invited for interfaces with teachers and students.

The IQAC takes into consideration the directives from the University, responses / suggestions from all the stakeholders and evolve proper action plans for effective implementation of the curriculum in the college. The action plan helps the faculty to engage classes, assign seminars, conduct internal examinations, practical examinations, viva-voce within a time frame and adopt innovative methods in teaching and learning. The faculty members are provided with learning resources like ICT facilities internet accessibility, library resources like INFLIBNET and N-list, staff development programmes, and smart room for easy and quick dissemination of the topics.

Character formation, personality development, skill acquisition, remedial and compensatory coaching, activities of various clubs and forums, mentoring, counselling are also merged into the time frame so as to mould wholesome personalities, ennobled by the vision and the mission of the institution. Seminars, project works, continuous evaluation, internal exams and open houses are held as per the action plan. The IQAC supervises the successful implementation of the action plan.

Entry level tests help to identify weak / slow learners and remedial coaching is arranged for them. Compensatory classes on Saturdays and holidays are also arranged for those students who miss regular classes, owing to their participation in various University and intercollegiate competitions, seminars, training camps and workshops.

Further, the institution encourages the advanced learners to carry out peer teaching and peer learning. On-the-job training, study tours, visits to research centres, industries, fish hatcheries and other centres of marine activities support the effective and successful implementation of the curriculum.

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

The University through its board of studies organizes workshops on curriculum reforms. The institution encourages the faculty members to participate in the workshops and hold discussions with the members of the board of studies. Faculty members attend orientation / refresher courses conducted by Academic Staff colleges, regional / national / international seminars conducted by different agencies and institutions. Their experiences in the said courses are well translated into innovative teaching-learning methodologies. The management takes initiatives and arranges animation / orientation programmes, educational conventions and workshops for the faculty and students by inviting eminent resource persons. The institution provides facilities like internet, ICT, smart room and LCD projectors for improving teaching practices.

Table 1.1 - Seminars / Orientations conducted

Nature of the seminar	Number of programmes conducted
National Seminars	4
Regional seminars	31
CBCSS orientations	8
Academic seminars	34

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

The introduction of CBCSS required an in-depth understanding of its operation - weightage criterion, grading, number of credits allotted to different courses and modules, the internal assessment scheme and preparation of the internal assessment mark sheets (A&B Forms). The institution takes initiatives to familiarize and equip the faculty members for the effective transfer of curriculum by deputing them to attend workshops organised by the board of studies and arranging seminars and workshops led by experts from the board of studies for the entire college community. Orientation classes are organized for the students of the fifth semester for familiarizing them with the open courses offered in the college. This helps the students to choose a course suitable to their aptitude.

The IQAC steers the implementation of the curriculum reform by taking necessary steps via strengthening computer literacy among students, accessibility to internet, enhancing ICT facilities for the faculty and students. The college is equipped with a Smart-Class-Room with a smart board and LCD projector for ICT-aided classes. The faculty members and students are encouraged by the IQAC to give power-point presentation of key-topics. Each department is provided with broadband connection. It helps the students to have quick access for supportive materials which would supplement the transactions on the curriculum. Network Resource Centre also provides free access to internet for academic purposes to teachers and students as well. Bridge courses, workshops, seminars and lectures by former faculty help the students to perform better in their examinations. INFLIBNET and N-List

facilities are also made available to students in the library. On-the-job training / work experience, study tours, visits to industries and research centres and participation in extension activities and enrichment programmes lead to a fruitful curriculum delivery and transaction.

Table - 1.2 Workshops/Orientation programmes for the faculty

Nature of the programme	Number of programmes
CBCSS Workshop	2
Orientation/ Animation	15
ICT training - Informatics	2
Orientation on preparing projects/ seminars	7

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the University in effective operationalisation of the curriculum?

The institution networks with industrial centres, business firms, marine centres, research bodies, women's self reliance societies (Kudumbasree and Janasree) and the neighbourhood. As the institution is located in the region of Kuttanad, the beneficiaries also include agricultural farmers, bio-farmers, fish farmers, aquarium fabricators, small scale entrepreneurs and business men in and around Kuttanad. The students under the guidance of their departments approach the beneficiaries for carrying out project works, on-the-job training, gathering firsthand knowledge of the products and management of the firms and fish farms. The beneficiaries in turn visit the institution and the students get opportunities to interact with them, share their knowledge and experiences. The institution also interacts with the University for Effective Operationalisation of the curriculum.

Table 1.3 Linkage with beneficiaries- Academic/Research/Industrial/

Sl. No	Department	Names of the beneficiaries
1	Mathematics	IISC, IIT, NBHM, TIFR & Centre for Mathematical Sciences
2	English	G.H.S.S, Thalavady, St. Mary's G.H.S, Edathua, EFLU Hyderabad.
3	Zoology	DST, KCSTE, Dept. of Forest and Wild life, Agricultural research Station Kumarakom, Dept of Fisheries, Govt. of Kerala, Ministry of Agriculture, CMFRI, ATREE, Alappuzha, Pamba Fish hatchery, Alappuzha, Vishnu's Ornamental Hatchery, Thottappally and Travancore Shrimp hatchery.
4	Commerce	Industrial Centre, Veroor, District Industrial Centre, Aleppy,
5	Physics	CUSAT, KCSTE, ISRO
6	Chemistry	Department of Agriculture, Karshaka Samithi, Department of environment
7	EEM	SCEPTI, Department of Electronics, KELTRON
8	Economics	Stock Exchange, Cochin, Banks.

The students of Zoology reach out to the prominent fish farmers, ornamental fish cultivators, fish breeders and aquarium fabricators not only for learning the know how of breeding and growing of fish, but also for transferring their information and knowledge to them. They visit various centres of marine activities in order to acquire first hand information regarding the functioning of such centres, the wealth of the sea and the conditions of the fishermen community. They visit these centres as a part of their on-the-job training as prescribed by the University in partial fulfilment of the vocational programme, for collecting specimen for their study and developing entrepreneurial skills. The department networks with research bodies, namely, Central Marine Fisheries Research Institution, Department of Forest and Wild life, Agency for Development of Aquaculture in Kerala, DST, KSCSTE, Regional Agricultural Research Station Kumarakom and Department of fisheries, Government of Kerala. The Scientists from these centres are invited to have interface meetings with the students so as to whet their curiosity in marine activities and enable them for employment opportunities by enriching their practical knowledge.

The students of the Department of English as part of their on-the-job training engage classes for school students in neighbouring high schools. They interact with the students and teachers and promote the learning of English Language at the school level. The department holds discourses with the English Language Teachers wherein they share the difficulties faced by them to teach English in the present context and measures to overcome the difficulties.

The students of the Department of Commerce under the guidance of Entrepreneurial Development Club visit industrial houses, business firms to acquire direct information on the production and management of such houses and to develop their entrepreneurial ambitions. The prospective employers, business magnates, bank officials, prominent industrialists and small scale entrepreneurs who visit the college deliver lectures to motivate the students.

The students of the Department of Mathematics attend advanced vacation summer schools organized by IISC, IIT, NBHM (National Board of Higher Mathematics), TIFR (Tata Institute for Fundamental Research) and Centre for Mathematical Sciences, Palai. To make the interaction more productive, the department hosts the Madhava Memorial Scholarship Exam, a talent search exam organized by NBHM and TIFR for the past three years.

The Department of Physics also supervises projects of B.Sc. Physics students from nearby colleges every year. They utilize the facilities in the Research laboratory. The department organizes STELLAR WATCH programme which is not only beneficial to the students of neighborhood but it also arouses their curiosity and to improve their scientific talent and vigour. As part of their enrichment programme, orientation classes and EUREKA 2K- a science experiencing programme, are conducted for the academic community of the neighborhood.

Various departments of the institution regularly work in collaboration with the departments of other educational institutions for conducting workshops and seminars. Further, the extension programmes carried out in the college bring

the students face – to - face with the beneficiaries in different walks of life in the society and help to mould and stimulate the students in their future life. Moreover, various associations invite and honour award winners in the business field, top officials from Banks, prominent bio-farmers and fish farmers from among the beneficiaries.

Aloysian Study Centre on Kuttanad (ASCK) conducts seminars for the farmers on various issues faced by them and thinks aloud the solutions to overcome the hazards in paddy/fish cultivation. ASCK and Department of Zoology with the support of KSCSTE (Kerala State Council for Science, Technology and Environment) organize Women Empowerment programmes for the members of the neighbourhood, Kudumbasree and Janasree with the aim to promote home production of variety of pickles, value – added - fish products, cage culture practices and sales of ready-to cook favourite dish - ‘Kuttanadan Karimeen’ (*Etroplus suratensis*) / pearlspot, and waste management. The neighbourhood stands benefitted from the institution through various supportive programmes carried out under the Aloysian Neighborhood Forum.

The faculty members and students interact with the University for Various Academic Programmes namely, curriculum reforms, workshops and seminars, official meetings of board of studies, valuation and revaluation board, pass boards and University students’ welfare office. The institution follows the guidelines laid down by the University in executing the curricular activities.

The institution encourages visits by research scholars from other institutions and universities to promote research culture among students and faculty. About eighty resource persons visited and enlightened the students and faculty on diverse topics.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (Number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions, etc.)

Members on the Board of studies from the college have been involved in the curriculum designing process of the University.

Teachers of the Department of Physics designed the syllabus for the UGC sponsored B.Sc. (EEM) course. The Department undertook the preparation of the first Model Question Paper for the University Examination in respect of the above course. The faculty members have also served as question - setters for the examinations of Kerala and Calicut Universities.

The faculty members of the Department of Commerce designed the syllabus (in connection with the syllabus reforms) of two courses - ‘Financial Services’ and ‘Operations Research’, for the PG programme. The department also prepared the Model Question Papers for the same.

The text ‘Physical Education, Health Education and Life Skill Education’ for Open course in Physical Education for the V semester students has been

prepared by the Department of Physical Education and is in use in the colleges where the course is offered as an open course. It is as a consequence of an effort initiated by the Department of Physical Education and also on the basis of the feedback from the stakeholders, the open course is introduced.

In response to the request of the students of B.Sc. Zoology the subsidiary subject – Botany was changed to Chemistry for enhancing their prospects for higher studies in Bio-chemistry.

The open course offered by the Department of Commerce was changed from ‘Capital Market’ to ‘Fundamentals of Accounting’ on the basis of feedback from the students as to make it more job-oriented.

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

The institution follows the curriculum designed by the affiliating university.

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

The result analysis of the outgoing students, their progression to higher education, research, the percentage of students employed and their social acceptance – from agriculture to administrative posts – and analysis of the feedback of teachers, parents and alumni - all clearly ensure and predict the extent of the achievement of the objectives of curriculum introduced by the University and implemented in the college.

It is worth mentioning that the open courses introduced in the present curriculum provides a mileage to the students in acquiring practical knowledge of the streams other than the selected ones by them and respect for the other streams of knowledge.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/ diploma/ skill development courses etc. offered by the institution?

The institution concentrates its attention on enabling the students to master the subject, practise the knowledge disseminated, be eligible for higher education, be employable and attain integrity of character and leadership traits. The institution offers the following UG and PG Programmes, Research Programme in Commerce and Distance Education programmes:-

Table 1.4 - UNDER GRADUATE PROGRAMMES (CBCSS)

Sl. No.	Core	Complementary	Sanctioned Strength
MODEL - I (Conventional, Aided and Semester)			
1	B.A. Economics	Historical Roots of Modern World & Political Science	60
2	B.Sc. Physics	Mathematics & Chemistry	32
3	B.Sc. Mathematics	Physics & Statistics	40
4	B.Sc. Chemistry	Mathematics & Physics	20
5	B.Com.	Taxation (Elective)	60
MODEL - II (Vocational, Aided and Semester)			
6	B.Sc. Zoology	Aquaculture (Vocational) & Chemistry (Complementary)	24
7	B.A. English	Teacher of English in Lower Classes (Vocational) & Education (Complementary)	24
MODEL – II (Vocational, Self Financing and Semester)			
8	B.Com.	Computer Applications (Elective)	40
MODEL – III (Vocational, Double Main, Self Financing and Semester)			
9	B.Sc. (Electronic Equipment Maintenance & Physics)	Mathematics & Computer Applications	30

Table 1.5 - POST GRADUATE PROGRAMMES(CSS)

Sl. No.	Core	Sanctioned Strength
REGULAR		
1	M.Com. (Finance)	15
2	M.Sc. (Mathematics)	10
3	M.Sc. (Physics)	10
SELF FINANCING		
4	M.A (English Language & Literature)	12
5	M.Sc. (Zoology with Fisheries)	12

RESEARCH PROGRAMME (Ph.D. in Commerce)**Research Guides**

1. **Dr. Zacharias Thomas** (M.Com. Ph.D., Dip. in law)
2. **Dr. K.K. Jacob** (M.Com. M.Phil, Ph.D.)

DISTANCE EDUCATION – ALOYSIAN STUDY CENTRE

The college offers 3 PG programmes and 1 UG programme under the distance education scheme of the Mahatma Gandhi University.

Table 1.6 - Courses offered under the distance education mode.

S. No.	Programme	Core	UG/ PG
1	M.A.	Sociology	PG
2	M.A.	English	PG
3	M.B.A.	HRM, Marketing and Finance.	PG
4	B.B.A	Investment and portfolio Management and Advertisement and publicity Management	UG

Certificate Courses: The College offered the following certificate courses with the aim of enhancing and enriching the students' learning experience in the College and to bring about a more holistic approach to acquiring knowledge, learning as well as to cultivating and developing the necessary skills for various vocations and careers.

PGDCA (Self Financing): The objective of the course is to give an all round training in Computer Applications sufficient to equip a person with the independent use of computer and its applications. 79 students completed the course in 2008-10 and 58 students in 2009-11.

Additional Skill Acquisition Programme: A batch of 25 students has been selected to the Additional Skill Acquisition Programme (ASAP) from the first year UG programmes. As part of the programme, students are given soft skill training on communication skills, leadership traits, personality development and basic IT skills. Further, the selected students are also trained in the specific job oriented skill areas selected by them. The institution has been aided by the State Government to carry out the programme.

The institution also was a part of the programme "Thousand Splendid Stars" of the ASAP, Department of Higher Education, Govt. of Kerala. The programme was aimed at recruiting Skill Development Executives (SDE) for training students enrolled for the ASAP classes. The selected SDEs can earn Rs. 500 per hour while working or studying for post graduation. From our college, 40 final year students across the departments participated in the selection process. All the students selected in the first round were given 21 days residential training on communication skills and basic IT skills. 10 students from our institution participated in the residential training programme. 5 students from our institution qualified the final selection process and got selected as SDEs.

Also 20 students from the final year UG programmes have applied for the summer skill course training conducted by the ASAP, Department of Higher Education, Govt. of Kerala.

‘Communication Skills and Employability Techniques’: The Department of English conducted a 90 – hour - duration course on ‘Communication Skills and Employability Techniques’. The objective of the course was to improve the communication skills of the participants so as to help them express themselves effectively in English and equip them with skills necessary for various careers. 50 students completed the course in the academic year 2011-12.

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

The Mahatma Gandhi University, Kottayam to which the college is affiliated does not offer programmes that facilitate twinning / dual degree

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

The college has academic flexibility to choose and change elective courses and open courses at the beginning of each academic year. The V semester students can opt for Open Course of their choice from among the ten open courses offered by the institution. The institution has opted for the Elective and Open Courses from among the range of courses prescribed by the university on the basis of the aptitude, interest, skill, employment potential and prospects to higher education giving due relevance to regional parameters.

The range of Core, complementary, Electives and open courses opted by the college are given below.

Table 1. 7 - MODEL - 1 (Conventional, Aided and Semester) from 2009onwards:-

Sl. No	Core	Complementary	Elective
1	B.A. Economics	Historical roots of modern world and political science	Marketing Management
2	B.Sc Physics	Mathematics & Chemistry	Opto Electronics
3	B.Sc Mathematics	Physics and Statistics	Operations Research
4	B.Sc Chemistry	Mathematics & Physics	Environmental Chemistry
5	B.Com with Taxation as elective	-	Taxation

Table 1. 8 - MODEL - II (Vocational, Aided and Semester)

Sl. No	Core	Complementary	Elective
1	B.Sc Zoology	Aquaculture (Vocational) & Chemistry (Complementary)	Applied Entomology Management of Ornamental Fish Breeding, Vermiculture and Bee keeping
2	B.A English	Teacher of English in Lower Classes (vocational) & Education (Complementary)	Regional Literatures in Translation

Table 1. 9 - MODEL – II (Vocational, Self Financing and Semester):-

S. No	Core	Complementary	Elective
1	B.Com	-	Computer Applications

Table 1. 10 - MODEL – III (Vocational, 2 Main and Semester):-

Sl. No	Core	Complementary	Elective
1	B.Sc. Electronic Equipment Maintenance & Physics	Mathematics & Computer Applications	Computer hardware and net working

Table 1. 11 - Model 1 – PG Courses

Sl. No	Core	Elective
1	M.Sc Mathematics	Analytical Number theory Fuzzy Mathematics Combinatorics Mathematical Economics Mathematical Statistics
2	M.Sc Physics	Solid State Physics Crystal growth Techniques Nanostructures and Characterization Thin film and Nano Science
3	M.Com	Finance
4	M.A English	Modern European Drama Shakespeare Across Cultures Modern European Fiction English Language Teaching

In the V semester the students are at liberty to choose a course (open course) offered by the institution from the list of courses prescribed by the University.

Table 1.12 Open courses conducted by the departments

Department	Name of the Open Course Conducted
Economics	Foundation of Environmental Economics
Physics	Amateur Astronomy
English	English for Careers
Mathematics	Amateur Mathematics
Zoology	Management of Ornamental Fish Breeding, Rabbit Farming, Poultry farming, Quail Farming, Vermiculture, Bee Keeping and Sericulture
Commerce	Fundamentals of Accounting
Physical Education	Physical Education, Health Education and Life Skill Education
B.Sc. E.E.M.	Computer Hardware and Net working
B.Com Computer	Fundamentals of Accounting
B.Sc. Chemistry	Food Science.

Academic flexibility provided by the institution:

Students who apply for transfer on genuine grounds can be transferred to another institution without a break in their studies as per the norms laid down by the university. Students who avail themselves of sick leave, maternity leave and those who are appointed as teachers (TTC holders) in leave vacancy posts in schools can be readmitted as per university norms.

1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

The institution offers the following self-financing programmes in UG and PG.

Table 1.13 List of UG & PG self-financing programmes.

Sl. No.	Programme	Admission Criterion	Curriculum	Fee (in Rs.)	
				Fixed by University	Free ship by the Management
1	B.Com. (Computer Applications)	50% CAP & 50% Management	As prescribed by the University	11250	2250
2	B.Sc. (Electronic Equipment Maintenance & Physics)	50% CAP & 50% Management	As prescribed by the University	11250	2250
3	M.A. (English Language and Literature)	50% CAP & 50% Management	As prescribed by the University	18750	1250
4	M.Sc. (Zoology)	50% CAP & 50% Management	As prescribed by the University	22500	2500

With regard to admission, curriculum and teacher qualification for self-financed programme, the institution follows the rules and regulations of the Government, and of the Mahatma Gandhi University. The institution ensures that qualified faculty is appointed as per University and Government norms. Retired faculty members are appointed as Directors of self financing programmes.

The fee structure is as stipulated by the University. However, the institution offers freeships (Subsidised fees rate) to all the candidates at the time of admission. The college has a remuneration package offered to the members of faculty, commensurate with their merit and qualification.

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

The institutional level skill developing programmes are enlisted below.

Table 1.14 Skill Developing Programmes

Sl. No.	Programme	Supported by	Strength
1	Finishing School,	Dept. of English	30
2	Happy Home Making	Women’s Cell	45
3	Aloysian Creative Unit	College	60
4	English Language Lab	Dept. of English	30
5	Entrepreneurial Development Club (ED Club)	Dept. of Commerce & Dept. of Economics	65+60=125
6	Career Guidance and Placement Cell	College	120
7	Computational Skill in Mathematics	Department of Mathematics	25
8	SKY UP	College	50
9	School for better English	Dept of English	30

- a) **Finishing School.** The institution responded to the suggestions and feedback of the alumni for a mechanism to enhance the efficiency and fluency levels of the English language of the stakeholders by starting a Finishing School for the final year students in 2012. It enabled the students to express themselves and perform well in interviews.
- b) **Happy Home Making:** A programme well tuned by the women’s forum aims at developing the skills of the girl students who form the majority on campus. Raw and useless materials are made into artistic and ornamental products. The Tailoring unit, Bag knitting unit, Embroidery, Clay modelling, Interior decorations, Cooking, Flower arrangements, Gardening and Hospitality are the various programmes conducted by the unit.

- c) **Aloysian creative unit:** Students blessed with creative skills are given training in painting, flower making, bouquet making and banner writing which would help them to eke out an earning while learning.
- d) **English Language Lab:** The Language Lab throws open a world of chance to those aspiring to be experts in the art of communication. The lab sharpens one's diction, pronunciation and proficiency in communication skill. A certificate course has been attended by 50 students. Now a language competency programme- School for Better English - is carried out for the purpose. The English teachers of neighboring schools also make use of the language lab under the RELP project.
- e) **Entrepreneurial Development Club (ED Club):** The club visits various enterprises and obtains first hand information regarding the working of industries and business houses and thereby develops entrepreneurial skills. Prominent industrialists, businessmen and entrepreneurs are invited to interact with the students. Such interactions have promoted the students to embark upon ventures of their own.
- f) **Career Guidance and Placement Cell:** The career club informs the students about the various possibilities and opportunities that are available in job market and career arena. With financial assistance of the Brunai Chapter of the Alumni, a separate room is furnished for the display of career-oriented books and journals for the students and public. The club also arranges the placement of the students of BA English, BSc EEM and BSc Zoology.

Table 1.15 List of Career oriented workshops organized by the Career Guidance and Placement cell

Sl. No.	Resource person/agency/team	Topic
1	ICFAI , Alappuzha	Career Guidance
2	Sri Balachandran, HRD trainer	Career opportunities and personality development
3	Birla Sunlife Insurance	Career Opportunities
4	Dr. Saina Hanna Varghese	Talk on study abroad
5	University career Club	Career opportunities
6	D. Solutions	Medical Transcription
7	Sri. V. Krishnakumar, Deputy Chief, EIGB, M.G. University, Kottayam	Career guidance
8	Sri Sojan Thomas ,TIME Trivandrum	Career in Logistics

- g) **Computational Skills in Mathematics:** The programme is intended to make students familiarize and be equipped with image processing techniques and computational aspects which are essential tools in mathematical modelling and also in medical image analysis. A well furnished lab with 12 computers installed with MATLAB and

MATHEMATICA is established for the purpose. Final year students are given training in the lab.

- h) **Sky Up:** It is a forum where students volunteer and come together with an aim of making a difference in their lives, on campus and finally in the society. It offers a platform to the students to develop their personality and event management skills and to nurture and mature their personality. The team manages events on campus, both academic and cultural in a professional manner. Soft skill development programmes like career@365, G K Board, competitions in cartooning, essay writing and script writing and field trips are organised for the members.

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

The University sanctions distance mode of education which cannot be combined with the conventional face to face mode of education. The Aloysian Study Centre (Centre for Distance Education Scheme) works on a separate campus and provides distance education programmes in MBA, MA Sociology, MA English and BBA. Classes are engaged by qualified and retired faculty members.

1.3 Curriculum Enrichment

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

The college conducts the following supportive programmes:

1. Curriculum supporting programme

- a) **Aptitude Test:** All the departments conduct an aptitude / entry level test for the new comers which help to understand the aptitude of the students and identify advanced learners, average learners and slow learners. Further the departments conduct seminars and lectures to enrich the subject knowledge of their students. Initiation and induction programmes are also conducted by all departments to familiarise the students with their subject selected.
- b) **Bridge course:** The students have passed out from various Boards of examinations and their knowledge level of subjects differs. Hence Bridge courses are arranged to fill the knowledge gap. The college provides language competency, mathematical skill development classes, basic computer training, and familiarization of scientific terms.
- c) **Remedial coaching:** The slow-learners are offered UGC aided remedial coaching to overcome difficulties in learning and to be on a par with other students. Such classes are arranged for them during the zero hours. UGC gives assistance for conducting remedial classes for the

weak students belonging to SC/ST, OEC, OBC and Minority community.

- d) **Continuous evaluation:** The institution has developed a continuous evaluation system comprising a number of class tests aimed at preparing the students for University examination, evaluating their performance level and thereby promoting them in their studies. The answer scripts are valued and marks are intimated to parents. Continuous evaluation system has resulted in the progress of their attendance, submission of assignments in time and presentation of seminar papers with the help of LCD. A marked improvement is evidenced in their studies, behavior and discipline.
- e) **Peer Teaching.** The advanced learners are motivated and encouraged to engage classes for slow learners to bring them forth in their studies. Many of the peers utilize it as an experience for the future so as to enhance their employment potentialities.
- f) **ICT:** The institution provides all possible information and communication technology facilities like fully equipped smart-room, LCD projectors and internet connections in all the departments. The faculty members are provided with ICT training by experts. The students access net connections in the departments, in the computer lab and in the UGC network resource centre for academic purposes.
- g) **Research Fraternity:** The academic graph of the institution shows a progressing trend by developing research in tandem with imparting of knowledge. A Research Fraternity is constituted wherein the students and teachers present their innovative ideas, research findings and programmes. The students also undertake project works. The forum promotes open discussions along the lines of research. Publication of a Research Journal is in the offing.

2. Co-curricular and extra-curricular activities.

- a) **Literary Clubs:** The institution promotes the dormant talents in the students by organizing various literary competitions under various clubs like, the elocution club, debate club, quiz club, arts club and readers' club. Their talents are exhibited and boosted through various platforms such as Talents day, Association activities, and celebrations in connection with Onam, Keralapiravi, Christmas, College Day and Arts Festival. Gifted students get exposure to intercollegiate and University level competitions. Such students with flair have bagged many titles and brought honours for the institution.
- b) **Sports and Games.** The institution is the proud Alma mater especially of national and international champions like Olympian / Arjuna award winner Sebastian Xavier in aquatics and Johnson Varghese in boxing. A good number of athletes, football and volleyball players have had their birth on the sprawling ground of this college. A swimming pond rather than a swimming pool in the back days witnessed the oncoming of many an inter-university and University aquatic champion who would have

otherwise remained mute and inglorious. The Korean martial art Taekwondo has many admirers on campus who have showed their mettle in University competition. We are the University runners-up in the event. For the last twenty five years the institution has been hosting the All Kerala Football tournament in memoriam of the founder patron Arch Bishop Mar Mathew Kavukattu and founder manager Rev. Fr. Zacharias Punnappadam. The institution also hosted the University level Taekwondo, Cricket and baseball competitions.

- c) **National Cadet Corps.** Army and Naval wings of N.C.C. under 15(K) Bn and 5(K) Bn. respectively show their grit and gallantry in the institutional training as well as in national level adventures-mountaineering, trekking, rock climbing, sailing and boat pulling camps, National integration camps, Tal-Sainik and Nav-Sainik camps and Army attachment camps. The college has been the venue for a number of ATC, CATC and CAWATC organized by the Kottayam Group. The activities have motivated the youth to join the armed forces. Many cadets have tried their hands in S.S.B. Many of them attend recruitment rallies and several of them get selected.
- d) **National Service Scheme (NSS) :** National Service Scheme comprises two units of 50 volunteers each. The regular activities include seminars, workshops, social works ('sramadhan'), village adoption, health survey, tree plantation, minicamp and a seven-day annual camp. NSS aims at the overall development, social commitment and personal integrity and patriotism of the volunteer. A magnanimous and remarkable activity of the NSS is collecting mid-day meal once a week for the inmates of 'snehabhavan'- a home for the mentally strained people. Selected volunteers participate in University and state level camps. Along with the observance of days like Teachers day, Environment day, AIDS day, Human rights day and Ozone day, awareness programmes such as anti-narcotic, anti-drug, awareness of killer diseases like cancer and AIDS, legal awareness are also conducted in and outside the campus by organizing cycle rallies, street plays and corner meetings.

Red Ribbon Club, a voluntary on-campus intervention programme for students is initiated and supported by the State AIDS Control Society and implemented through multi-sectoral collaboration, particularly, using the services of cadre officers of the State's National Service Scheme (NSS).

The programme addresses the knowledge, attitude and behavior of the youths in the interrelated areas of Voluntary Blood Donation, HIV & AIDS and sexuality, as demanded by their age, environment, and life style. The Red Ribbon Club serves as a complementary and comprehensive prevention/intervention to support and reinforce similar youth led initiatives. The institution organized orientation classes against drug abuse and HIV/AIDS awareness classes.

- e) **Eureka 2K:** It is a science experiencing programme which makes use of the immense resources in the college to provide the students of neighbouring schools an exposure to their curriculum and thereby motivate them in their studies. The theory programmes, well demonstrated using physics, chemistry and zoology labs, mathematical modelling of various concepts, economical and commercial aspects of various entities, the usage and implementation of spoken English, exhibition of various types of flora and fauna are the main attraction of Eureka 2K. So far have we successfully carried out 12 programmes.

3. Extension activities

- a) **Aloysian Education Extension Programme, ALEEP:** It caters academic resources to the neighbouring institutions. ALEEP organizes study classes and socio-scientific seminars for the benefit of the student community outside the college.
- b) **Aloysian Study Centre on Kuttanad:** Aloysian Study Centre on Kuttanad facilitates the students and research scholars in and out of the college to acquire information about this renowned wetland and its problems. For the promotion of such studies ASCK organizes symposia, seminars and workshops. The ASCK with the support of the Department of Zoology and Energy Club organize women empowerment programmes for the members of Janasree and Kudumbasree units.

Table 1.16 Programmes conducted under the co-ordination of the ASCK/Aloysian Neighbourhood Forum.

Sl. No	Name of programme	Organised by	No. of participants
1	Women awareness programme “Fisheries – An Ocean of Options for Women Empowerment”.	ASCK, Department of Zoology and Aloysian Neighborhood forum	Neighborhood women folk (100 nos)
2	Women awareness programme “Energy conservation and Waste Management in domestic sector”	ASCK, Department of Zoology and Aloysian Neighborhood forum	Neighborhood women folk (100 nos)

- c) **Heritage museum:** It is intended as a store house of information about the yester-years of Kuttandu, a repository for exhibition and a resort for scholars. We intend to acquire as many materials, implements, vessels, tools and articles that were used in Kuttanad from time immemorial. Through these, the social system, culture and heritage of Kuttanad are depicted and transmitted. Portraits of eminent personalities who have transformed the land and lives of people of Kuttanad will also be exhibited. Prof. P.J. Kurian, the Honb’le Deputy Chairman of Rajyasabha has consented to grant Rs.7 lakhs from the MP fund for the renovation and furnishing of the museum. The museum functions under the coordination of ASCK.

- d) **Research Lab:** The research lab functioning under the supervision of the Department of Physics provides opportunities to research scholars and students from other institutions also for carrying out their research work. The availability of apparatus like **photoluminescence apparatus (Schimadzu), Muffle furnace electro luminescence apparatus, High voltage power supply, Photomultiplier tube, Photo conductivity and photo voltaic apparatus, Nano ammeter, Micro volt meter, distilled water unit, Magnetic stirrer, Spin coater for thin films, Thermo-vapour thin film apparatus and Electronic balance** make the lab be on a par with the laboratory of National standard. Three of the faculty members utilized the facilities available in the research lab to secure their Ph.D degree and more than 100 P.G. students have availed the facilities of the lab.
- e) **Electronics Workshop:** The Department of EEM runs an electronic workshop maintained by the students. The repairing works of electronic equipment are carried out in this workshop which provides the students with sufficient work experience and the know-how of latest technology behind electronic products.
- f) **Tax Consultancy Service:** To assist the general public and members on the staff, a tax consultancy service is provided under the co-ordination of the Department of Commerce. They extend help in the submission of tax forms, e- return and advising the beneficiaries on better and efficient ways of money savings.
- g) **Soil and Water Test Analysis:** The land, soil and water sources of Kuttanad are polluted. The soil and water test analysis lab extends its help especially to the small scale farmers to know the degree of toxicity and salinity of the soil. The Department of Chemistry manages the Water and Soil Analysis Lab. The lab helps in analyzing soil for the agriculture and also the tests regarding the pH value of water.
- h) **Aloysian Neighbourhood Forum:** Aloysian Neighbourhood Forum is an initiative taken up by the institution as an outreach programme in the neighbourhood society of the college. The students belonging to the Energy Club promotes the use of CF lamps, solar power and bio-gas plants as measures to save energy in the neighbourhood. The students of the college in the neighbourhood arrange tuition classes for the school students. The needy students are given necessary support. The institution receives feedback and suggestions from the immediate neighbours in achieving its vision and mission. It also organizes women empowerment programmes for the women in the neighbourhood.
- i) **Rural English Literacy Programme (REL P):** It is another initiative on the part of the institution to promote the teaching and learning of English in the neighbouring schools and rural areas and at the same time a platform for the teachers of English to come together and share their experiences, difficulties and arrive at solutions so as to make the teaching of English effective.

- j) **Charity Initiatives:** The commitment to the society is evidenced in the readiness to aid the needy in the society. Noon-day meals are provided to the 125 inmates of the nearby home, SNEHABHAVAN, once a week. Medical expenses for their college mates are met by students. Financial assistance is provided to a friend of theirs whose house was washed away by the furious sea. Vincent de Paul Society also collects money for assisting the needy students. Schemes are worked out for constructing a home under the project 'home for a homeless friend'

4. Eco-Friendly Activities

Various Eco-friendly activities are carried out on campus.

- a. **Bhoomithrasena:** It creates awareness among the students to grow as eco- friendly individuals. Tree plantation inside and outside the campus, plastic free campus, energy saving awareness programmes, observance of important days in connection with the environment are the major activities of the club
- b. **Nature and Energy Club:** The club convenes several orientation programmes to make the youth aware of global warming, over exploitation of the planet earth and natural resources and measures to protect the green earth for the future generation. The club took initiatives in observing Ozone day, National environment day, National forestry day and other days of National importance.
- c. **Thanalkkoottam:** It is a forum where students and faculty members gather under the shade of a peral tree (Banyan Tree) every Wednesday to discuss and share their experiences and indigenous knowledge. The club serves as a platform to discuss green thoughts and to make the academic community more eco-friendly. The forum looks forward to undoing and arresting the environmental degradation by creating awareness relating to environment and its conservation, wild life, the cultural, scientific and aesthetic values of the fauna and flora. The gathering under the shade of the peral tree recalls to our minds the great Gurus who taught their disciples the first lessons on immortality and initiated them into the mysteries of life and death.
- d. **Efforts to maintain Carbon Neutrality:** With the aim to reduce the use of carbon, the institution has decided to communicate with the parents through SMS. Internet facility is provided in the net resources centre, in the library and in every department for reducing paper consumption. Moreover, ICT method of teaching-learning helps to reduce the use of chalk and paper. The white board in each class minimizes the use of chalk and renders the class dust free.
- e. **Hazardous Waste and e-waste Management:** A Memorandum of understanding has been made with Kerala Enviro Ltd, Ambalamedu, Cochin, which is an approved organization under KPCB, to collect hazardous waste and e-waste in the college. The leftover of chemicals, glass pieces and sharp objects are separated and kept in different boxes. Also e-waste such as unused computers, electronic gadgets, CDs, bulbs

and tubes are kept in separate boxes which will be collected by the same company.

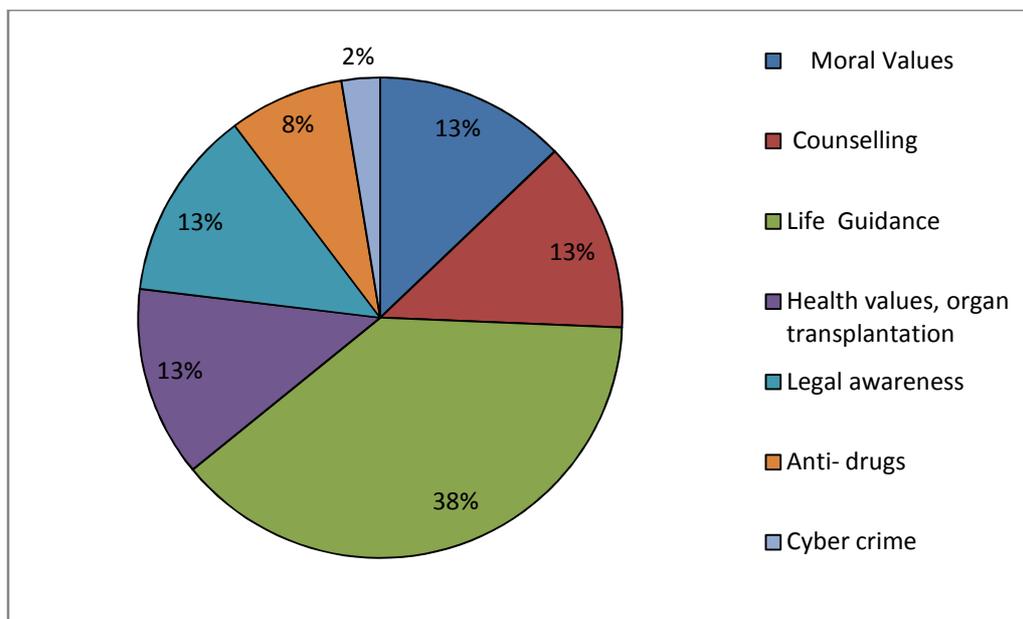
- f) **Health club and Yoga Centre:** A Body Fitness Room with basic fitness equipment is installed in the college campus and special classes on health and hygiene and demonstration of Yoga, are given at the centre by the Health Club. A trained yoga practitioner who is a member of the faculty gives lessons in Yoga for the girl students of the college.

5. Programmes fostering Moral Values

- a) **Value Education Classes:** Aiming at the moral refinement of the student community and instilling of life values in the minds of students, the institution organizes value education classes on 7th and 18th working days of each month. 'Fragrance of Values', a text prepared by the faculty members, is prescribed for engaging value education classes. The value tips shared by the principal and students after the daily Morning Prayer help the stakeholders to imbibe moral values which would vouchsafe a gracious and harmonious life in the society.
- b) **Life Guidance Programme:** Holy mass for Catholic students and Life Guidance programme for non-catholic students are also arranged simultaneously on all possible first Fridays. Eminent personalities who can impress the students and be their role models are invited to talk on culture, tradition, customs, practices and values of the present day life. Every day the class begins by chanting a hymn from different religions by students from various departments.
- c) **Student Mentoring:** Every faculty member is an overall development partner of the students who can foster the personal and professional growth of the mentees through personal attention and guidance. The mentee's bio-data helps the mentor to sketch out his social, family and economic background. Each faculty member is allotted 20 students for mentoring which helps to build confidence in them and to relieve them from anxiety, stress, tension, and prevent addiction to drugs, alcohol and mobile phone.
- d) **Student Counselling:** The College conducts student counselling regularly. The counsellors give awareness on the need for counselling at the beginning. Two professional counsellors and two qualified faculty members counsel the students. Each year more than 100 students approach the counsellors. About 60 follow up cases are attended by the counsellors. Some of the problems identified are anxiety, learning disability, traumatic stress disorders, immature involvement in love-affairs and addiction to mobile phones and alcohol. The clients are given relaxation therapy, rational emotive behavior therapy, breathing exercises, and yoga and meditation classes to recover their mental health.
- e) **Equal Opportunity Centre (EOC):** With financial assistance from the UGC, EOC works with the aim to end discrimination on gender differences by making available the facilities of the college to all

students. The EOC had conducted women-profile analysis which brought to light the poor economic conditions of girl students. Consequently, the institution provides financial assistance, coaching for various competitive examinations and skill development facilities for the under-privileged.

Chart 1.1 – Talks - promoting moral, life skill, health values and counselling – conducted from 2008 to 2013.



1.3.2 What are the efforts made by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market?

The college offers conventional courses, vocational courses distance education courses. The courses - vocational in particular - lead the students to specialize and expedite their prospects to get placements in the job market. The open courses offered by the departments truly reflect their experiences in the region. They also serve the present requirements of the dynamic employment market.

The enrichment programmes boost the students' soft skills and career potentials to compete confidently in job arena. Based on the feedback, changes are brought about or modified or new enrichment programmes are introduced by the departments.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as gender, climate change, environmental education, human rights, ICT etc into the curriculum?

An active **Equal Opportunity Centre (EOC)**, functions in the college as per the guide lines issued by the UGC. The index of the welfare of a nation is the welfare of women and children who are often a neglected lot in the society. Hence the EOC aims at identifying problems unique to women students and uplifting them in the society. The objectives of EOC are –

- a) To oversee the effective implementation of policies and programmes for disadvantaged groups,
- b) To provide guidance and counselling with respect to academic and
- c) To enhance oneness in diversity within campus.

The EOC conducted a study on the girl students, their family, educational and economic background and the findings have been properly implemented on campus. **The Women's Forum** actively keeps the students aware of the global gender issues and helps them to cope with the problems by organizing workshops, seminars and Women's Day activities. **Anti-ragging committee** and **anti-ragging squad** keep a vigilant eye to prevent any untoward incidents on campus. Respect for the fair sex is also promoted among the students. To address the problems of drug addiction and drug abuse, the **Anti- Narcotic Cell** organizes a number of awareness programmes.

Nature and energy club in liaison with **Bhoomithrasena, Thanalkoottam** and **NSS** take initiatives to keep the campus clean and green. Various eco-friendly activities such as observance of days related to environment, tree plantation, plastic-free campus and management of hazardous waste and e-waste create an awareness of the environment, climate changes and their consequences in the students. They promote energy saving programmes like installing bio-gas plant and CFL lamps in the women's hostel and rain water harvesting on campus. Frequent workshops, seminars, debates and elocution competitions on climate changes proffer a right attitude and approach among the students towards the environment. Pesticide-free farming, organic cultivation and vegetable garden are also encouraged within and outside the campus. The ASCK also conducts wetland studies, promotes bio-farming and women empowerment programmes as part of environmental education.

Anti-narcotic Cell, Anti-ragging Cell and **NSS** highlight issues of violations of human rights and arrange legal awareness and cyber awareness programmes to check such social maladies. A seminar on cyber awareness was conducted to throw light upon cyber crimes, their impact and consequences and the strong cyber laws to counter the crimes.

All the ICT facilities available on campus are mobilised optimally towards the integration of the entire cross cutting issues into the curriculum.

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

The students are infused with moral and ethical values through various programmes like life-guidance, value-education and communal harmony-rallies, Celebration of Holy Mass, rosary chanting and weekly prayer meetings held under the initiative of the Catholic Students Movement (CSM).

The students develop the spirit of selfless service, sharing and consideration are by visiting and making contributions to orphanages, home for the destitute and the disabled. Noon meal is provided for the 125 inmates of 'Snehabhavan' every Wednesday. Blood donations, medical assistance, collection by the Vincent de Paul Society evoke a helping mentality in the students.

Enrichment programmes viz. the finishing school, communication skills, Open school for better English, Additional skill acquisition programmes, Aloysian Creative Unit, Happy Home Making, Aloysian Education Extension Programme, Aloysian Neighbourhood Forum, Eureka 2(K), Aloysian Beyond Curriculum programme, Regional English Language Programme, Aloysian Study Centre on Kuttanad and Career fit @ 365 promote personality development and potential for employability. The career guidance and placement cell guides the students properly on placement and employability.

The institution organises community-oriented activities in the neighbouring panchayats like health surveys, tree plantation, anti-dowry pledge, AIDS awareness programme, anti-drug and anti-narcotic drives, women-empowerment programmes, save-energy programmes and eco-friendly activities. Tuition classes are arranged for the neighbourhood school children. The needy children are supported financially by the alumni.

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

Feedback from the stakeholders, mainly the alumni, was instrumental in introducing the following programmes in the college - EEM (Electronic Equipment Maintenance), BSc Zoology (Aquaculture), BA English (Teacher of English in lower classes) and B.Com Computer. They offer better job prospects to the students.

Promotion of women-empowerment and equal opportunity for women, supported with a well furnished women's hall were the results of the feedback obtained from the profile analysis of women students of the college. In response to the feedback from the students, a new office complex has been furnished to house the offices of the various clubs of the college.

In order to address the problem faced in teaching English in rural areas, the Department of English conducted an interface programme under the auspices of (Rural English Literacy Programme) with the teachers of nearby schools and it marked the commencement of ' School for Better English' programme in the college.

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

The institution has incorporated various enrichment programmes for the benefit of its stakeholders. Aloysian Creative Unit, Happy Home-making, Counselling centre, Value Education classes, Life Guidance programme, mentoring and Equal Opportunity centre and skill development programmes [like Additional Skill Acquisition Programme (ASAP), Sky up, Women cell, Happy Home-making, Women's day, Aloysian Creative Unit, Entrepreneurial Development Club, Eureka 2(k), Finishing School and Aloysian Study Centre on Kuttanad,] function in the college and these programmes have been entrusted to various departments for its effective monitoring and management. A team of faculty has been placed in charge.

Evaluation of the performance of the programmes is done on the basis of their fulfilling the needs of the students and equipping them for global employment and securing values for successful life in the society. On an analysis of the evaluation received from the beneficiaries, teachers, parents and alumni, the IQAC submits a report on the findings to the staff council. Necessary changes if any, suggested by the staff council are implemented in the following year.

1.4 Feed Back System

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

The faculty members had participated in curriculum designing and restructuring workshops, organized by the various boards of studies and contributed to the curriculum development by the university.

The institution organized workshops and seminars for the faculty members and for the students by resource persons from the board of studies who gave a convincing picture of the working of CBCSS. The institution has an internal mechanism carried out under the guidance of the CBCSS Co-ordinator, who properly orients the students on open courses. The text for the open course in Physical Education designed by the head of the department of Physical Education is now followed by many colleges in the University.

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

The college obtains feedback from the students to assess the curriculum and curriculum supporting activities such as teaching-learning methods, ICT facilities, infrastructure, curricular, co-curricular and extra-curricular activities, enrichment, extension and skill acquisition programmes, college administration and the performance of the teachers.

The principal obtains feedback from the students in person. Feedback is obtained from the staff, parents, alumni, neighbourhood, prospective employers and staff. It is communicated to the University through various forums like the principals' council, board of studies, exam board, pass board, students' welfare office and teachers' professional organization.

Employment generating courses, various enrichment, extension and skill development programmes are the result of the feedback obtained from students, parents and alumni. Coaching for NET, SET and various competitive exams are also the outcome of the feedback / suggestions from the stakeholders.

As Kuttanad is an agrarian region, most of our stakeholders are farmers and fishermen. Heeding to their demand, the Department of Chemistry has started a Soil and Water-analyzing lab, the Dept. of B.Sc. Zoology (Aqua Culture) provides assistance in fish breeding, fabrication of Aquaria, maintenance of Aquaria, construction of fish tanks and ponds, the Department of Commerce

provides income tax consultancy services and the department of English conducts an interface programme for the teachers.

‘Finishing school’ is a valuable suggestion put forth by the alumni for augmenting employment potentials of the upcoming students. The Post graduate students suggested for starting coaching in SET, SLET and NET exams.

Table 1.17 - Proposed Career oriented programmes

Disciplines	Subject	Coordinating Department
Sciences	Electronic PCB Designing and Fabrication	Physics
Sciences	Yoga and Fitness Management	Physical Education
Arts/Social Sciences	Hospital Administration	Economics
Arts/Social Sciences	Communication Skills and Employability Techniques	English
Commerce Commerce Commerce	Capital Market Entrepreneurship Development Supply Chain & Logistic Management	Commerce Commerce Commerce

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

Based on the feedback and heavy demand by the stake holders, the IQAC recommended the Staff Council to apply for PG courses in M.Sc Zoology, MA English and MA Economics. The Management took due interest and proceeded in the matter to get the courses sanctioned by the University. The University sanctioned M.Sc Zoology and MA English on self financing scheme in the year 2012-13. Classes have already commenced. The sanctioned strength for B.Com Computer is enhanced from 30 to 40.

M.Sc, Zoology with Fisheries Science is a rare course and is marked for its high employment potential. With the introduction of the course, the stakeholders get a chance to pursue their higher studies in the college.

CRITERION II

TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

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

The University publishes the admission schedule in the university website and thereafter the college publishes the detailed admission procedure in the college website www.aloysiuscollege.org and in the regional newspapers. College prospectus furnishes all the necessary details of the programmes. The Alumni and the Aloysian Neighbourhood Forum also give adequate publicity with regard to admission procedures. 'Helpdesk' by the N.S.S. offers sufficient publicity and guidance to prospective candidates.

The institution complies with the norms laid down by the State Government / University from time to time. The students can exercise maximum freedom in choosing programmes and colleges through the single window system (Centralised Allotment Process). A merit list to 50% of the total seats and 20% of seats to the SC/ST is prepared by the university C.A.P. 3% of the open merit seats is reserved for sportsmen and physically challenged.

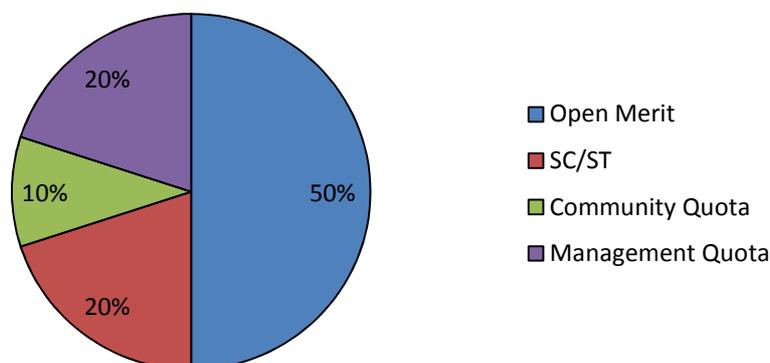
The college is run by the Catholic Community and enjoys minority status conferred on March 22, 2013. The College issues application forms to the prospective candidates in the Community and Management Quota. The management admits the students on the basis of merit, giving due weightage to their social, economical and geographical profile.

For self-financing programmes, 50% of seats come under open merit and 50% under the management quota and the admission procedure is similar to that of the aided courses.

ADMISSION NORMS

The admission to various categories is as per the Government/ University guidelines.

Chart 2.1 - Admission Norms



* sports, physically handicapped – 3% from the open quota.

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

Admission process is carried out strictly on the basis of merit prepared by CAP as per the University guidelines.

The students who get allotment in the college under the CAP are to meet the principal with the allotment memo and all necessary documents. Verification of the documents is done by the general office and the departments concerned. The students are directed for an interview with the principal and on remitting the required fees fixed by the university, the candidate is admitted.

The management publishes the rank list of candidates in the community (10%) and management quota (20%) on the basis of merit, adhering to a minimum percentage of marks and also giving due weightage to social, economical and geographical profile of the applicants.

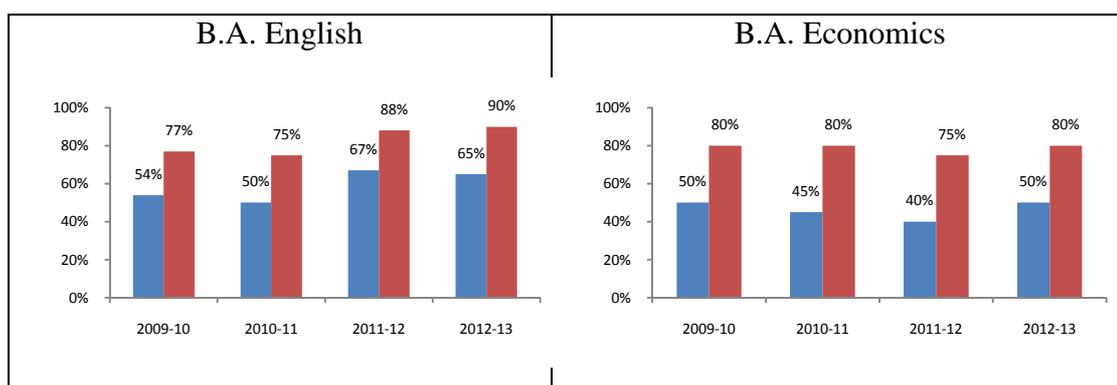
The list of students admitted to various programmes is timely intimated online to the University.

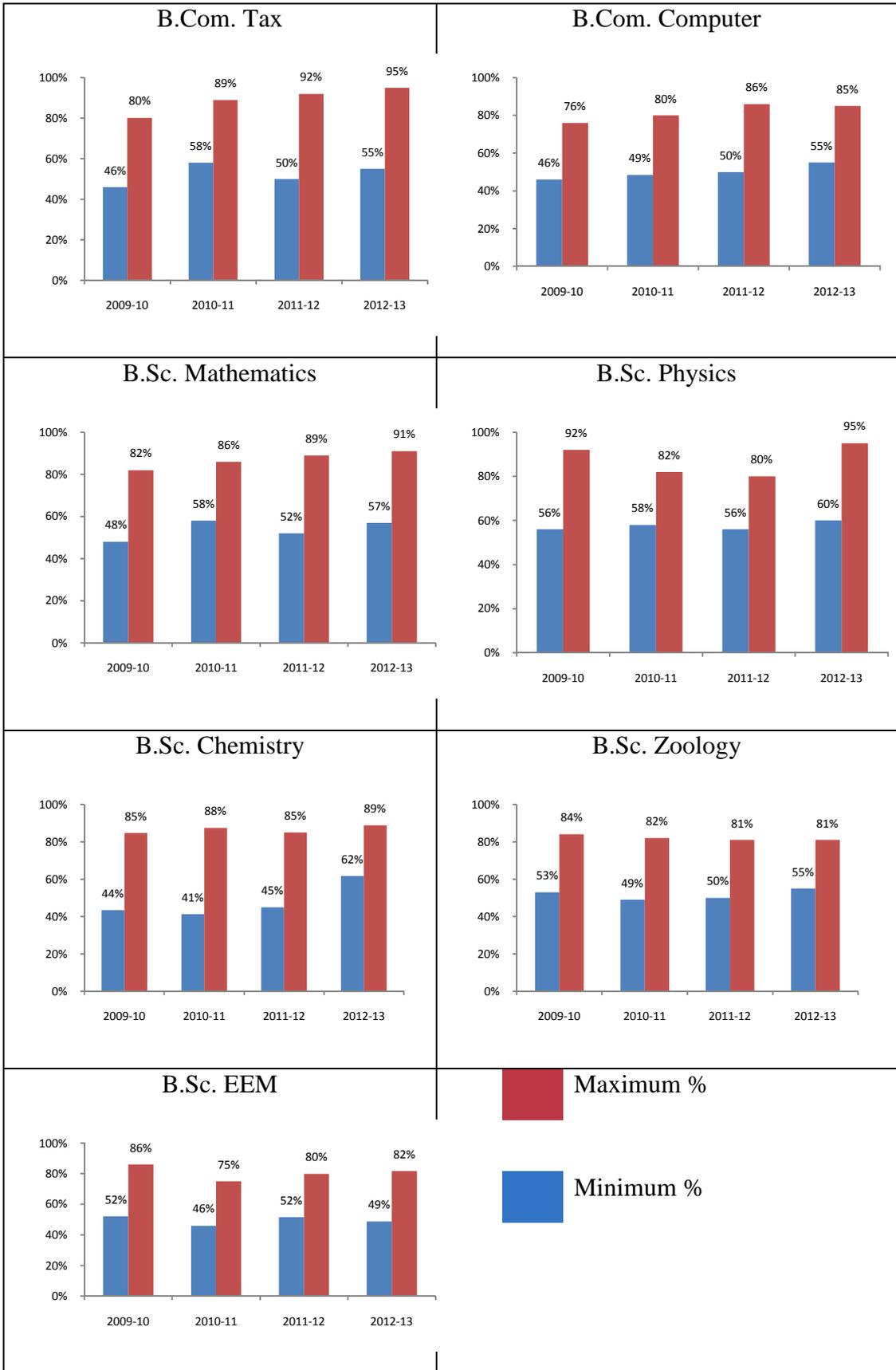
Prior to the introduction of CBCSS, the college admitted students purely on merit basis for the open merit, SC/ST, Community and Management quota. The admission committee monitored the preparation of rank list and admission process.

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

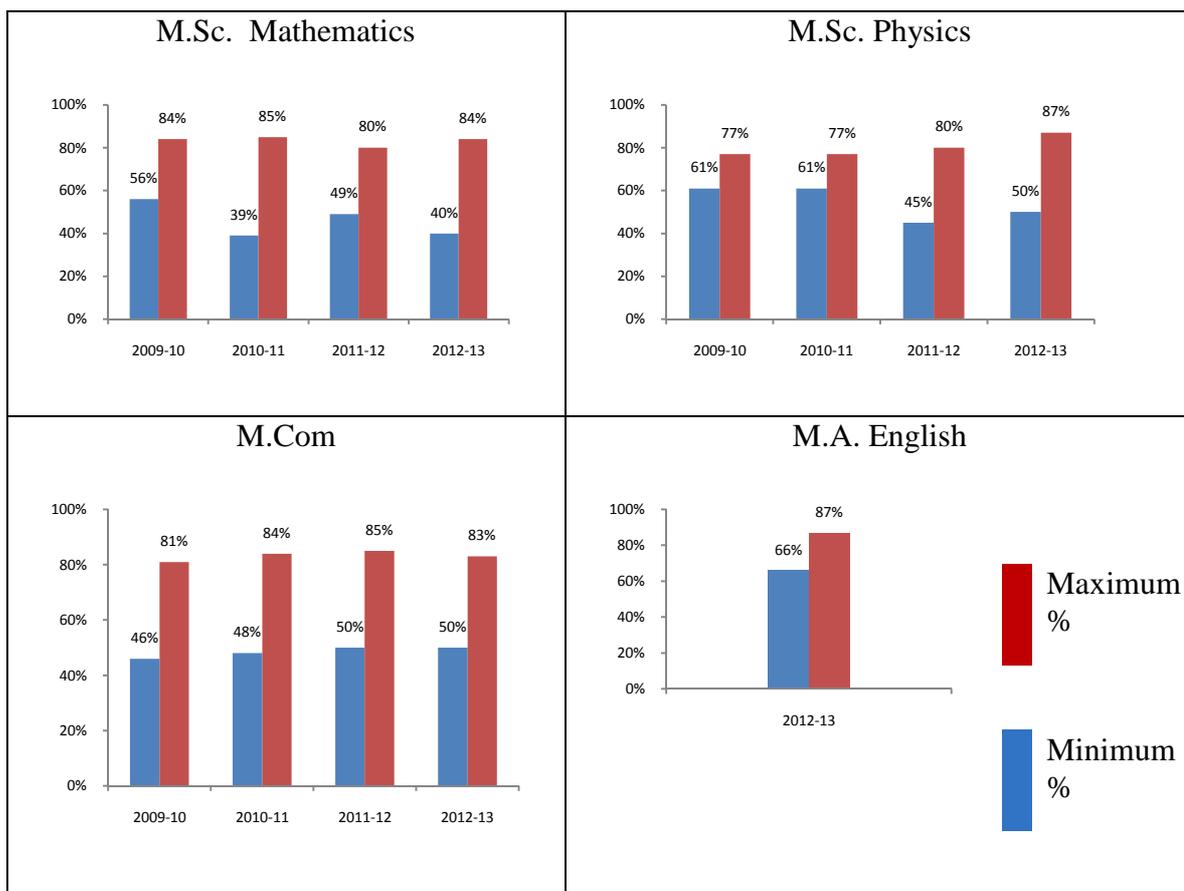
Chart 2.2 - Entry level marks (minimum/maximum) for the last four years:-

UG PROGRAMMES





P.G PROGRAMMES



The college has come to know from the communication with the D.B College, Parumala (Pathanamthitta Dt.) a neighbouring college affiliated to Mahatma Gandhi University that the minimum and maximum marks for admission at entry level is almost the same as that of this college.

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

The institution has a commendable mechanism in monitoring and reviewing the admission process involving the admission committee, departments, IQAC, staff council and the managing board. The management in turn evolves the admission policy for the coming year.

The reviews have contributed to the improvement of the admission process in the following ways: -

- Yearly enhancement of the minimum percentage of marks for admission to community and management quota.
- Affirms the institution's commitment to diversity and inclusion of differently-abled and economically weaker sections.
- Helps to identify the intellectual calibre, social and economical background of the students.
- Bridge programmes designed and implemented by each department.

- e) Bright students identified and given advanced academic assignments and slow learners offered remedial coaching.
f) Betterment of results observed.

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

- * SC/ST
- * OBC
- * Women
- * Differently abled
- * Economically weaker sections
- * Minority community
- * Any other

The institution admits a good number of students from social groups like the Scheduled Castes, Scheduled Tribes, Other Backward Classes, Women, Religious minority communities and other economically less privileged groups. In the absence of sufficient applicants in the SC/ST category, eligible candidates from other backward classes are admitted.

The institution also provides sufficient facility to differently-abled students. Residential facility, social security and utmost attention to the needs of women who form the majority (56%) on campus, scheme for conveyance, freeships, Government scholarships, concessions and financial support for the economically weaker sections, minority scholarships for the minority community, individual attention and equal opportunity for all, and due weightage given to social, economical and geographical profile of the applicants facilitate easy access to the above categories of students in the college

UG	No. of students			SC/ST		OEC		OBC		KPCR		Minority Community (Christian & Muslims)		Others	
	Boys	Girls	Total	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
2009-10	151	173	324	18	20	15	17	22	41	96	95	66	50	30	45
2010-11	137	159	296	18	21	7	25	10	13	102	120	62	48	40	52
2011-12	132	158	290	10	19	12	22	2	9	113	125	75	58	33	50
2012-13	145	220	365	16	21	13	26	2	32	9	36	72	76	42	65

Table 2.1 - List of SC/ST, OEC/OBC/KPCR students Admitted in the previous years in various stream.

* SC/ST – Scheduled Caste/Scheduled Tribe
 OEC/OBC – Other Eligible/Backward Community
 KPCR – Kumara Pillai Commission Report

PG	No. of students			SC/ST		OEC		OBC		KPCR		Minority Community (Christian & Muslims)		Others	
	Boys	Girls	Total	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
2009-10	9	27	36	---	3	1	---					6	3	2	21
2010-11	11	34	45	2	4	1	2					6	14	4	14
2011-12	12	22	34	1	3		3					3	9	8	7
2012-13	13	34	47	3	0	0	0	---	---	---	---	9	15	1	19

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

Table 2.2 – Admission Demand Ratio – 2009 – 10 to 2012 – 13

Programmes	2009 -10			2010 -11			2011 -12			2012 -13		
	No. of Applications	No. of Students Admitted	Demand Ratio	No. of Applications	No. of Students Admitted	Demand Ratio	No. of Applications	No. of Students Admitted	Demand Ratio	No. of Applications	No. of Students Admitted	Demand Ratio
BA Economics	350	62	1:05	CAP	42	-	CAP	45		CAP	43	
				49*	18	1:3	42*	17	1:3	40	20	1:2
BA English	303	31	1:10	CAP	18		CAP	20		CAP	23	
				17*	8	1:2	12*	9	1:1	12*	9	1:1
B.Com Tax	553	66	1:08	CAP	44		CAP	43		CAP	49	
				118*	19	1:7	147*	19	1:8	120*	21	1:6
B.Com Computer	205	33	1:06	CAP	17		CAP	18		CAP	26	
				98*	16	1:6	20*	19	1:1	123*	25	1:5
BSc Physics	150	32	1:05	CAP	22		CAP	27		CAP	25	
				39*	10	1:4	39*	8	1:5	25*	10	1:3
BSc Chemistry	210	21	1:10	CAP	15		CAP	15		CAP	17	
				22*	7	1:3	17*	6	1:3	25	8	1:3

BSc Maths	308	41	1:07	CAP	29		CAP	28		CAP	26	
				30*	13	1:2	34	10	1:4	20	15	1:2
BSc Zoology	180	27	1:07	CAP	18		CAP	16		CAP	21	
				26*	8	1:3	27*	7	1:4	19	9	1:2
BSc EEM	35	32		22	11	1:2	CAP	6		CAP	15	
				22*	11	1:2	23	16	1:2	20	15	1:2
MSc Physics	30	10	1:03	CAP	10		CAP	7		CAP	7	
				22*	4	1:6	13*	3	1:4	15*	3	1:5
Msc Maths	19	11	1:02	CAP	9		CAP	9		CAP	7	
				18*	4	1:4	10*	4	1:3	12*	3	1:4
MSc Zoology	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	
M.Com	82	15	1:06	CAP	13		CAP	10		CAP	10	
				32*	6	1:5	22*	5	1:4	29*	5	1:6
MA English										CAP	6	
										9*	6	1:2
PG Diploma PGDCA	58	55	1:01	55	40	1:01						

*=Management Quota + Community Quota

The recent trend indicates that the basic science and the social science programmes attract the students since the possibilities for higher studies in the recently started IISERs, IITs, IIMs and education institutions of similar nature have been enhanced and also employment opportunities. The management has put in enough effort to increase the number of seats in B.Com. Computer and the university have issued sanction to increase the number of seats from 30 to 40. The University grants 20 to 30% of marginal increase of seats for all UG and PG courses to accommodate deserving candidates. The management in response to feedback from stakeholders obtained university sanction for commencing PG programmes in Zoology and English. B.Sc. EEM programme, a terminal Model - III self-financing course has less demand due to limited prospects for higher education. Recently the institution has tapped resources from various bodies, mainly UGC for upgrading its infrastructure status.

2.2 Catering to Diverse needs of the students.

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

3% of seats in the open merit is earmarked for differently abled students. The institution takes utmost care to cater to the maximum needs of differently abled students by providing educational concessions, scholarships, conveyance, and moral support through counselling. The institution readily supports visually impaired students as and when they get admitted. But in the past five years no such student applied for the courses.

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

Face-to-face meeting at the time of admission, certificates of merits secured by the candidate in curricular, co-curricular activities, details of talents, skills, potentials and ambitions recorded in the bio- data sheet and aptitude tests conducted at the entry level help to measure the knowledge levels and skills of the candidates. Entry level feed back tests are conducted and evaluated. Bright students are encouraged to undertake projects on advanced topics and are given responsibilities as Peer tutors, leaders of various clubs (ABC clubs) and forums. Initiation/Induction/ programmes organized for freshers familiarize them with the subject selected. Tips on 'effective methods to learn' and 'time management' are given to them regularly.

2.2.3 What are the strategies drawn and deployed by the institution to bridge the knowledge gap of the enrolled students to enable them to cope with the programme of their choice?

Bridge programmes are organized by the departments concerned - English language competency, arithmetical skills, computer training, familiarization of scientific terms, introduction to concepts of accountancy and theories of economics. Remedial coaching is arranged for weak students on working days from 09 hrs to 10 hrs in the morning and from 16 hrs to 17 hrs in the evening. Retired faculty members and experts in the field, give orientation to the students to cope with and familiarize them with programmes of their choice.

Continuous evaluation coupled with other activities like science exhibitions literary competitions paper/seminar presentations and association activities rejuvenate their zeal for higher level knowledge. Remedial coaching is carried out with the support of UGC funding for the SC/ST and minority students. Supportive activities related to fish farming and aqua – culture, computational facility made available with the help of MATLAB and MATHEMATICA, research lab and sky watching, entrepreneurial skill, language lab and event management whet their interest in the programmes of their choice.

Skill Development Programmes (SDP) like ASAP, SKY UP, Finishing school, Aloysian creative unit and Happy Home making upgrade their vocational skill and employability.

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

Women form 56% of the student community and they face problems unique to their gender. The Equal Opportunity Centre (EOC) functions effectively in the College, and aims to redress their problems. EOC conducted a survey entitled 'Profile Analysis of the female students', among the girl students of the college, brought out a volume on the findings of the survey and most of the recommendations of the survey have been implemented on campus. The recently introduced facilities include spacious canteen with separate room for ladies, clean toilets, counselling centre, women's hostel, women's hall with all amenities, yoga and fitness centre, reverse osmosis water purifiers. Anti-ragging committee and anti-ragging squad monitor and ensure a ragging free campus.

Various skill developing programmes such as painting, knitting, embroidery, interior decoration, cooking, flower arrangement, gardening, bouquet making are arranged for the girl students.

With the aim to promote placement in government, private and banking sectors, the institution arranges PSC, bank coaching and NET/SET coaching for all aspiring students.

In the back drop of an eco-impaired region overdosed with pesticides and fertilisers, the institution focuses on eco-friendly activities within and outside the campus. Bhoomithrasena and NSS organise tree plantation programmes on campus, awareness programmes and observance of days in connection with the protection of environment. The Energy club propagates the advantages of CFL lamps and other sources of less energy consumption to the students and public. A demo of the functioning of the Biogas plant and Solar Energy harnessing were arranged. Rain water harvesting has been a dream project and the institution proposes to utilize the project for community water supply scheme to the neighbourhood.

Besides, wall papers, leaflets, newsletters, manuscript magazines and college magazines also ensure the inclusive development of all the students.

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

Face-to-face interview, merit certificates secured by the students and aptitude tests conducted at the time of admission help to identify advanced learners. The advanced learners are the leaders in the Peer Tutor System. They are given exposure to various academic competitions at the University, Inter-collegiate and College levels. Through mentoring, their skills and educational needs are boosted and accomplished. The access to INFLIBNET, internet facilities in the departments and net resource centre, opportunities for LCD presentations on advanced topics and current events in and outside campus and membership to various forums are impetus given to the advanced learners.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) the students at the risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker section etc.)?

The institution collects data on the academic performances of the students through continuous evaluation, internal exams, project works and group dynamics. Through interactions with parents/guardians and class mates, reports of the class teacher and the class mentor help to identify students at the risk of drop out.

Drop out level is minimum in our college. The tendency to drop out is wiped off by remedial coaching, counselling sessions and financial support to economically, socially, educationally and physically disadvantaged sections. A few students discontinue their studies owing to admission to professional courses, recruitments to armed forces and change of residence.

2.3 Teaching and Learning process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic Calendar, teaching plan, evaluation blue print etc.)

The IQAC prepares a comprehensive Hand Book and Academic Calendar giving all the details of the institution and schedules of working days and internal examinations. A blue print of all academic activities - teaching, learning, and evaluation processes is prepared in advance based on the teacher – animation programme. The blue print helps the departments to formulate an action plan at the beginning of each semester assigning class charges, mentors and club-in-charges. A time frame is set for completing teaching and learning process and other curricular activities.

The performance of the students is assessed through continuous evaluations, internal examinations, assignments, seminars and university examinations and measures are taken for further improvement. The parents are informed of the performance of their wards through SMS and open house.

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

IQAC co-ordinates teaching-learning process in the college by preparing an action plan which is followed by all the departments for arranging all teaching and learning activities. The action plan ensures that academic activities like, orientation programmes, workshops, remedial coaching, peer teaching, continuous evaluation and internal assessment lead to academic excellence. ICT facilities like Smart class room, LCD Projectors, scanner and internet accessibility are provided to the faculty and students for the improvement of teaching-learning process. The feedback helps in evolving concrete plans and identifying thrust areas of importance for the following academic year. The IQAC affirms academic excellence and academic discipline.

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

Induction programmes at the beginning of the course for the freshers help to shed their inhibitions. Orientation and bridge courses familiarize them with the subject selected. CBCSS workshops give them an awareness of the grading system, electives and open courses. The entry level test identifies their skills, aptitudes and interests and this helps the teachers to make learning more student – centric and cater to their needs accordingly. Infrastructure and ICT facilities, seminar presentations, project works, group discussions and group dynamics lead to the development of interactive learning.

Internet access with INFLIBNET, research lab facilities to the students of other colleges as well, interaction with resource persons during seminars inside and outside the campus, visit to the University library, industrial houses, research centres facilitate collaborative learning. Counselling and mentoring instills confidence and promotes independent learning skill among them.

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

The institution conceives and delivers a teaching method that cultivates critical outlook and approach towards life problems and in finding solutions to them. Group discussions, group dynamics, interactive sessions and seminars develop a logical attitude and scientific temper. Supportive activities, innovative practices and skill development programmes arouse their innate and creative instincts and develop a wider perceptive of life; all undoubtedly leading to a lifelong learning. Visits to various centres of research, industries and marine activities stimulate their innovative tendencies and transform them in their later life into successful entrepreneurs and research scholars. Project work and research activities help to assimilate a systematic and scientific approach and transcend them into committed professionals.

2.3.5 Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

The institution in commensuration with the fast growing developments in information technology, adheres to technology enhanced learning, by providing infrastructural facilities and information and communication technology (ICT) facilities such as, the smart room (equipped with all the modern audio-visual facilities including visualizer, smart board, DVD, TV and LCD) 20 BSNL connections of 100 Mbps VPN over broadband for unlimited use (provided by the NMFICT of HRD Ministry, New Delhi). Overhead and LCD projectors, net connections in all the departments, college library and UGC Network Resource Centre annexed to the library ensure rapid and effective dissemination of learning resource. A well equipped computational lab with MATLAB and MATHEMATICA is installed to aid research and computational project works. The academic community utilizes the ICT facilities in the seminar hall for national seminars and workshops.

A three-day workshop on Informatics was arranged for the faculty and students with the financial aid of the State Government.

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

The faculty, through their exposures in refresher/orientation courses conducted by academic staff colleges of various universities, participation in various seminars and workshops organized by the board of studies, UGC and other funding agencies, interactions with experts and scholars from within and outside the country and e-reading of journals and publications, are well attuned to the advanced levels of knowledge. Series of lectures, National and Regional seminars organized by departments provide platforms for students to meet and interact with the academia and experts in each stream of knowledge. Seminars and workshops are conducted in collaboration with reputed agencies like UGC, KSCSTE, BARC and DST. The students are motivated to initiate researches in their respective fields. Research fraternity organizes interdisciplinary lectures

for promoting blended learning among the faculty. Open courses enable blended learning among the students.

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

The complexities of modern days and strained social relationships play havoc on immature minds causing depression, disorder and tension. They cannot be left unattended. Hence the institution has always made available the assistance of counsellors to the students who are mentally distracted. The Counselling Centre in the institution, led by two professional counsellors and two qualified faculty members, function as a mind soothing and relief centre for mentally weighed down students. The counsellors at the beginning of each academic year meet the students in their classes and explain the facilities and availability of the counsellors to them. There is a marked difference in those who have sought the assistance of counsellors, setting their lives once again on the right track. The counsellor takes necessary follow up, approaching their peers and even contacting parents if needed. More than 100 students approach the counsellors for assistance and 60 follow ups conducted.

Student mentoring lends a helping hand to those students, who, due to adverse circumstances and strained relationships, deviate from their goals. Twenty students are allotted to a mentor who takes care of their mental and intellectual development and progress in studies.

The Heads of the Departments and Class teachers give academic assistance to the students; slow-learners are supported with remedial coaching, advanced learners are promoted with many opportunities and exposures to enhance their knowledge. Open houses buildup confidence and optimism in the students and parents.

The faculty members many a time extend financial support to the economically backward students for meeting their academic needs.

The Grievance Redress Cell of the college with three-tier system settles all the grievances of the students.

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

The faculty members, consequent on their participation in orientation/refresher courses, seminars/workshops are updated on the recent trends and adopt innovative approaches in teaching methods. The IQAC encourages them in experimenting and perfecting innovative methods providing all infrastructure and ICT facilities:-

1. ICT Teaching Method:- The faculty members are recharged with basic tutorials on general informatics sponsored by Kerala State Higher Education

Council. The management provides infrastructure and all equipments for ICT teaching, whereby easy and quick learning is made possible.

2. Smart Room, with technology aided gadgets like visualizer, smart board, DVD, TV and LCD and audio system.
3. White Boards: - All the class rooms have been furnished with white boards and pens promoting a smooth teaching-learning activity. The added benefit of the whiteboard is a chalk dust free classroom.
4. All departments are supplied with LCD Projectors to ensure easy communication, attractive way of presentation and clarity on facts and data conveyed.
5. Peer tutor system is promoted in every class, where the advanced learners can lead the slow learners to perfection.
6. Finishing School and Better English provide lessons to better in English Grammar and communication skills to students.
7. Internet and online services are made available in each department and INFLIBNET services in the library. The facility for taking print out is also available in the library.
8. Students are encouraged to give presentations in the Smart Room with the support of LCD, visualizer and smart board.
9. Modernization of Research lab and department's lab with the advanced equipments.

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

The central library has about 31000 titles, around 800 reference books, 18 academic journals, 26 periodicals and all leading regional and two National dailies. Students have an easy access to all the library facilities.

E-library facility (8 computers with server and 7 LAN in the net resource centre) helps the students in their project works, assignments and seminars. Moreover, INFLIBNET and N-List facilities help the students and faculty to augment their knowledge from e-books and journals (3000 electronic journals, 7000 electronic books and bibliographic database called MathSciNet). The newspaper clippings highlight the information of academic importance from the regional and national dailies. As the hub of learning, the library supports and accelerates teaching learning process. The students and faculty utilize the library to the optimum level and update their knowledge.

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

Introduction of CBCSS and semesterization of PG and UG programmes offer a lot of advantages to the students - widening the vistas of knowledge, restructuring and updation of the syllabus, transparency in evaluation process, higher education opportunities, research and employability. However, the faculty faces certain challenges viz., vastness of syllabus and untimely scheduling of practical examination.

Some other challenges faced by the institution:

1. Delayed admission process - Delayed publication of the results by the various boards badly affect the admission process.

2. Regional Problems – Heavy flood, provincial strikes, hartals by political parties, result in the loss of a number of working days.
3. Extensive Curriculum - The number of working days inclusive of internal exams in a semester is 90. The faculty finds it difficult to complete the syllabus within the planned time frame.

Institutional measures to overcome the challenges:-

The loss of working days is compensated by engaging extra classes arranged on Saturdays and other holidays. To facilitate the teaching-learning process, the faculty uses audio-visual aids, power point presentations, seminars and paper presentations. Peer teaching also enhances quick learning of the slow learners.

Though time slots for co-curricular activities, extension activities, and enriching programmes are scanty, every attempt is made to carry out maximum number of programmes for the holistic development of the student.

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

IQAC monitors and evaluates the quality of teaching-learning. Action plans are prepared by each department upon the instructions of the IQAC. The performances of students are assessed in the continuous evaluation, internal examinations and the parents are informed of their wards' position. Feedback from the parents and stakeholders helps in evaluating the quality of teaching-learning discipline on campus and infrastructure requirements.

IQAC encourages the faculty in adopting innovative methods. The use of ICT facilitates the teaching - learning process.

The principal evaluates the academic performance of each faculty member by analyzing the feedback from the students.

Each department carries out its own self evaluation process at the end of each semester.

Feedback from the Alumni, oral and written, are also collected and steps are taken accordingly.

2.4 Teacher Quality

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

The college recruits faculty with high academic record, competency, commitment to the profession and the selection is purely on merit.

Management of human resources:- The selected teachers are offered extensive opportunities to update their knowledge and skills. Animation programmes are organized by the management annually to tune the fresh hands to the vision and mission of the college. Educational conventions are convened for the entire staff of all the institutions under the management which helps to develop cooperation

and achieve common objectives. The college encourages the participation of the faculty members in administration, academic, social and extracurricular activities. The teachers are motivated to participate in regional, national and international seminars, orientation and refresher courses, workshops and science experience programmes conducted by universities, research centres and other institutions. The management insists on competency in ICT and orientation programmes are conducted. Faculty members in charge of NCC and NSS have to undergo orientation courses of one-month and three-month duration respectively. Every faculty member is in charge of various clubs to replenish themselves with additional skills and to develop a good rapport with the students.

The management is liberal in allowing its faculty to avail of FDP facility to the extent possible to upgrade the research potential of the institution. It is noteworthy to mention that recently there is a marked increase in the number of M.Phil and Ph.D. holders which truly reflect the impact of management's strong resolve to augmenting the quality of its human resource.

The management is successful in retaining many of the retired faculty members on campus as the directors/faculty members of several self-financing and Off-Campus courses.

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

The college has recently introduced M.Sc. in Zoology with Fisheries Science (presently in the self-financing stream) which is an emerging course suiting to the topography of the locality. It is a rarely available course with enough job potential and as such it has much demand. The department has taken initiative in setting an ultra modern lab and other learning resources with the financial assistance from the management.

A number of retired faculty members willingly engage classes for UG and PG. The Directors of all self financing courses are retired faculty members. The college invites experienced senior faculty members from other institutions to enlighten the students on new programmes. Such measures have helped especially the PG students to prepare thoroughly for university examinations.

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

- a. Nomination of staff to development programmes**
- b. Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning.**
- c. Percentage of faculty**

A number of faculty members have been nominated to various staff development programmes – administrative, academic and professional.

The Staff Association, a communion of all the faculty members actively functions in the institution. The association is instrumental in the over all development of teaching faculty through its contributions in the administrative matters, academic programmes and professional organizations. Three of the Staff council members are nominated from among the association members.

Faculty members are part of the Managing board, IQAC, P.T.A. and various committees in the college and appointments in various university bodies like board of studies, pass board and examination board. Every faculty member is either the director or executive member of various clubs/forums and discharges unblemished services in administrative/academic affairs.

The management puts no restriction on the faculty to function as office bearers/leaders in professional organizations and many of them have been at the helm of professional organizations.

Faculty training programmes organized by the institution enable the faculty to update their knowledge in ICT and various tools and technology for improved teaching-learning. Promoting participation of the faculty in maximum workshops and seminars organized by the UGC/University/Research Centres and/ institutions has been the long standing policy practiced by the institution over the years.

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

The institution encourages faculty members to avail themselves of research grants and sanctions study leave for FDP. It urges them to publish their research papers both at the national and international level and to provide adequate lab and IT facilities. Collaborations with eminent scientists have opened up new vistas for the faculty to familiarize and assimilate modern trends in scientific knowledge and innovations. Besides, the institution hosts workshops, national seminars and orientation programmes. The annual education conventions and animation programmes replenish the faculty members and refresh their commitment to the profession and the big achievers are properly felicitated by the management.

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

1. Dr. P.C. Aniyankunju

- a. Received John Paul II award from Catholic Federation of India, a Lay Catholic Movement.
- b. Award for Excellence in Lay Leadership by Archdiocese of Changanacherry.

2. Dr. N. Suja

Best paper award by Centre for Ocean and Earth Science 2012.

3. Dr. K.C. Mathai

Best paper award – Dayavati Rastogi Award in Sept.2011 at Mamen’s Christian College, Nagercoil.

4. Dr. Lakshmi Vijayan

Two standard references in International Centre for Diffraction Data (ICDD).

5. Prof. Gem Cherian

Award for Best paper presentation in the UGC sponsored National seminar at SNM College, Malliyankara on 30th January 2014.

The college has a developing research culture. The management, P.T.A., and faculty are providing enough support for the being of it. Through their whole hearted support, 8 faculty members could obtain PhD and several others could achieve M.Phil degree availing of FDP. It is worth mentioning that two of them have achieved their Ph.D by doing part-time research.

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

Evaluation sheets are handed over to students and their feedback on teachers regarding various criteria like communication skills, effectiveness of teaching, concern for students’ knowledge base, relationship with students, availability and accessibility are rated and collected by the principal. Feedback is collected from parents also. The views of the parents and students are confidentially shared to each teacher for improving his/her academic performance, teaching methods and communication skills.

Based on the findings of the feedback analysis, the IQAC prepares plans for academic activities for each year. On the approval of it by the staff council, the IQAC implements and monitors the activities.

2.5 Evaluation Process and Reforms

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

The faculty participates in the workshops arranged by various boards of studies and get acquainted with the internal assessment / external evaluation system, its various criteria and division of weightage and grading. Further, workshops are arranged in the college for the entire faculty regarding the effective and fruitful evaluation of the students. University notifications also throw light on the above mentioned aspects. Evaluation is through a two-tier system comprising of the internal and external assessments.

The institution provides the evaluation details in the Student’s Hand Book and in the prospectus. These are explained to the students and parents during the induction ceremony of new batches, and in the PTA General Body by the principal. Class teachers intimate the students of the details of the internal assessment regularly. After the internal exams, the results are published in the

notice board of each department. The parents are made aware of the results through open house.

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

The Mahatma Gandhi University has launched the Credit and Semester System from 2009 onwards with a two-tier evaluation system. The institution follows the rules and regulations of the university.

In the college level, two internal evaluations tests are conducted every semester. The results are published and get acknowledged by students.

In addition, a series of class tests are done to monitor ongoing teaching - learning process. Seminars and paper presentations by the students are also evaluated. As part of the evaluation process, the institution takes the parents into confidence. The results are published and messages are sent to them. Open houses are conducted, where the parents can get first hand information of their wards' performance.

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

The principal with the sanction of staff council appoints a general coordinator to monitor the evaluation process. The coordinator arranges awareness programmes to the faculty members and the students, regarding evaluation reforms of the university and its implementation in the institution.

Dates for internal examinations, publication of the internal evaluation results are planned by the IQAC. Topics for assignments and seminars and date of submission are fixed by each department. Evaluation works are completed in time, published on the notice board and sent on line to the university along with hard copies within the time frame set by the university.

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

Teaching-learning process becomes effective only when the faculty members can comprehend the proportion of progress made by the students. In this view, a number of formative as well as summative evaluation programmes are conducted. Students are asked questions and are encouraged to clear their doubts during the class. Continuous evaluation is carried out. Students have to present one seminar paper and two assignments on selected topics. Two internal examinations and the university level Semester examinations are conducted in each semester. The evaluation system helps a lot in improving the quality of the students in the academic level. These reforms make the students more study-oriented and the same get reflected in their university examination results.

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

The institution through IQAC monitors and communicates the progress and performance of students during the course through the formative and summative assessments. The weak students are then supplemented with tutorials.

Table 2.3 - Result Analysis of the previous four years

Sl. No.	Programme	UG/PG	Programme wise Pass Percentage			
			2012-13	2011-12	2010-11	2009-10
1	English	UG	94	84	71	84
2	Physics	UG	92	93	67	75
		PG	60	69	70	70
	EEM	UG		52.2	58	25
3	Chemistry	UG	70	88	20	67
4	Mathematics	UG	70	54	64	33
		PG	33	62	50	50
5	Zoology	UG	90	67	50	59
6	Economics	UG	85	81	58	79
7	Commerce (Tax)	UG	84	81	67	40
	Commerce (Comp)	UG	81	77	65	43
	Commerce (Finance)	PG	50	67	88	86

Chart 2.3 Result Analysis – Year wise Pass Percentage for UG Programmes

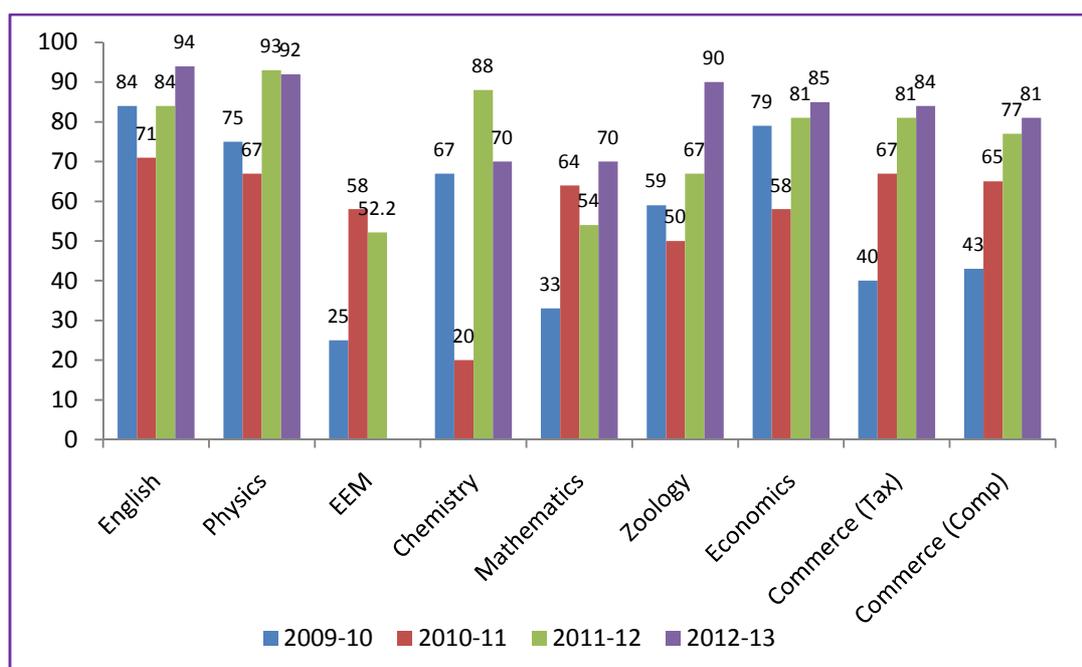
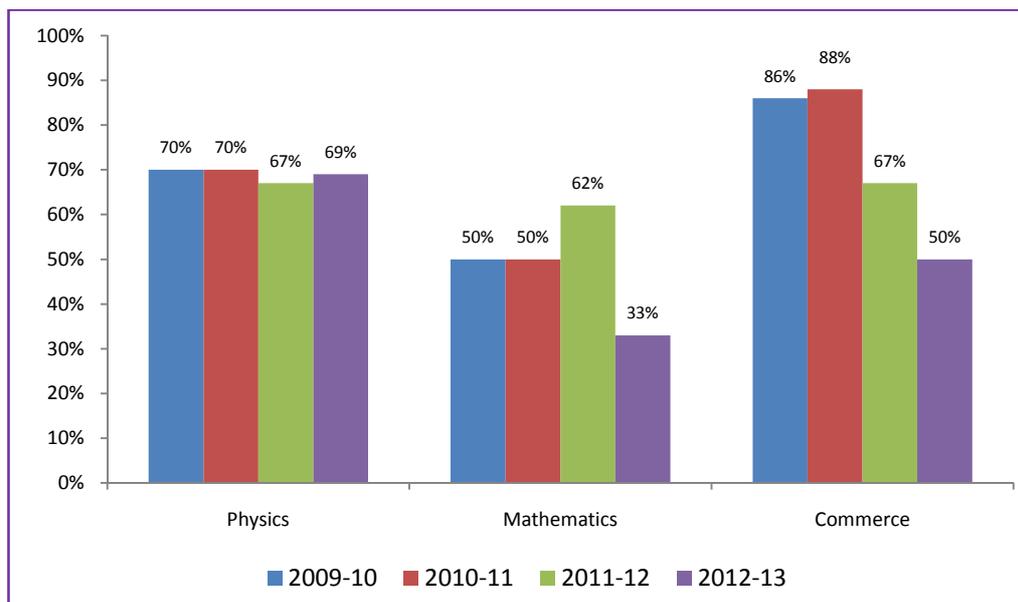


Chart 2.4 - Result Analysis – Year wise Pass Percentage for PG Programmes



The analysis shows that the monitoring of the students through the formative and summative assessments have a direct impact on the improvements of UG students' performance in the university examinations. During their course work, the institution provides several platforms to the students through ABC to develop their personality traits. Consequently an improvement in the academic ambience is visible throughout.

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

The internal assessment schemes framed by the university for the CBCSS have created a new vigor among the students. The weightages assigned to various categories for the evaluation such as attendance, seminars, assignments and test papers make the students more study and research oriented. The attendance criterion has enhanced more than 90% of attendance by almost all the students in class room learning, leading to a disciplined behaviour in the class and on campus. Seminars and projects help the students do a search for the in-depth knowledge on the topics assigned. The students learn to extract information from the internet and from other resources (orientation, seminars workshops, e-reading texts, INFLIBNET). Independent learning is highly promoted to a great extent through peer teaching, seminars and short presentations by the students. Paper presentation has led to the development of communication skills of the students.

Transparency has also been ensured by publishing the results on the notice board and college website and the parents are informed of it. The grievances if any are redressed.

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

The class teacher and class mentor keep a track of the progress made by the students under their charge. The achievements by the students point to their attitude, interest, diligence and dedication to their studies. The teachers concerned, motivate and encourage them to attain academic excellence, social commitment and global employability through programmes organized by the institution, departments and clubs and forums. Guidelines for all these activities are issued by the IQAC.

Marked improvements in the results are evidenced in the result analysis.

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

The grievances of students are settled through the Grievance Redressal Cell. It has a 3-tier system. Sufficient time is allowed for the students to put up grievances, if any. They are first addressed to the class teachers concerned. The class teacher discusses the problem with other teachers who engage classes for that particular programme. Majority of the problems are solved through the class teachers. If the grievance is not fully redressed, he can then approach the head of the department. He can approach the principal if he is not satisfied or thinks justice is denied to him. If his grievance is fully redressed, necessary changes, if any, will be made in the appraisal forms A & B and then submitted to the university.

2.6 Student performance and Learning outcomes

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

The learning outcomes are clearly manifested in the Vision and Mission of the college. Besides, the goals are clearly stated in the Prospectus and the Hand Book. The primary goals are – academic excellence, development of skills, social commitment and integral development of the students. The IQAC plans for implementing the expected learning outcomes to be achieved. Orientation talks by eminent personalities are arranged for the entire academic community to reorient and refresh their dedication to academic activities. Special bridge programmes are organized to top up and update the students. These activities help them to be aware of the set goals and persevere in their tasks.

The parents are also intimated of the goals of the institution during the induction programme and General Body meetings and open houses.

Besides the orientation programmes, each department organizes various programmes for the holistic development of the students, namely, visit to Industrial Centres, Scientific Institutions, OJT and study tours. The performance of the students and their skills are appreciated by the professional agencies, where they have gone for their on the job training.

Various cultural and literary competitions hosted by the institution, are another way of achieving the desired results stated in the vision and mission of the college.

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

The management provides all infrastructure facilities for deploying various teaching methods. The teaching is student-centred with the aid of ICT and web resources. Students who are identified as slow-learners are provided with compensatory, remedial and peer team teaching. Student mentoring and psycho-social counselling help the students overcome mental depression and guide them in their studies.

Internal exams, assignments and project work help to assess the performance of each and every student. The interactions with the parents after every internal examination, boost the students. The publication of the university results, help the students to realize their actual position and supporting and compensatory steps are taken to equip them to improve their subject, in which they are found lagging.

The faculty members, by implementing the action plan formulated by the IQAC, ensure a better performance of the stake holders in their studies as well as in all round development of their personality.

2.6.3 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (quality Jobs, entrepreneurship, innovation and research aptitude) of the courses offered?

To enhance the relevance of the courses offered, the institution conducts seminars, workshops, short presentations and demonstration classes focusing on the course theme for the students. Exposures, industrial visits and on-the-job training bring them face to face with the social and economic relevance of the courses selected and these arouse in them a research spirit. They are prompted to attain necessary qualifications for jobs and entrepreneurship. The institution gives wide publicity through the prospectus, academic calendar and website about the courses offered, and consequently many industries, business firms and research institutes show interest and invite final year UG and PG students to their stream. They also offer campus placements for aspiring students. Being the only centre of higher education, the institution has been playing a very significant role in the overall economic and social development of Kuttanad.

2.6.4 How does the institution collect and analyze data on student learning outcomes and use it for planning and overcoming barriers of learning?

The learning outcomes are targeted as academic excellence, integrity of character, global employability and research orientation. The responses and reactions on the targeted learning outcomes are collected through feedback by the departments through their frequent contact and interaction with the alumni, parents and peers, alumni association and visits to abroad chapters of the alumni by the principal and personal emails to the head of the institution. Based on

these responses and suggestions, the institution with the help of IQAC plans the introduction of supporting programmes to improve Skill development and communication skills.

2.6.5 How does the institution monitor and ensure the achievement of learning outcomes

The IQAC discusses the findings of the feedbacks and monitors the action plan, intended to attain the learning outcomes.

Based on these, applications are submitted for starting of new programmes to the university. Finishing school, enrichment programmes and other career guidance programmes too are introduced to supplement the academic programmes, targeted at the wholesome development of the stakeholders, materializing the vision, mission and the objectives of the institution.

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

The institution stands affirmed on translating the vision and mission into the lives and career of the stakeholders. The student-centred teaching-learning method depending on ICT, internet facilities, continuous evaluation, internal examinations and other supportive academic programmes and Aloysian beyond curriculum programmes, transform the stakeholders into research oriented, employable, entrepreneurial and socially committed citizens. Feedbacks from parents, alumni, students and neighbourhood help the institution to adopt necessary changes and attain the goals set in the vision, mission and the objectives of the institution conforming to its status as the only centre of higher learning in the region of Kuttanad.

CRITERION III

RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

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

The Department of Commerce is a recognized research centre of the Mahatma Gandhi University, Kottayam.

Table 3.1 – Reseach Centre in Commerce

Name of students	Topic of research	Guide
Sri. Binu Mathew Dept. of Commerce, St. Berchman’s College, Changanacherry	Impact of modern Retail Marketing System in Kerala’	Dr. Zacharias Thomas
Sri. Renjith Jose, Lecturer, Dept. of Commerce, St. Berchman’s College, Changanacherry	Effectiveness of Financial Inclusion Policies of Reserve Bank of India with special reference to Kerala	Dr. Zacharias Thomas
Sri. Joseph Sam, Associate Professor, Dept. of Commerce, St.Aloysius College, Edathua	Industrial Relations in Public Sector Banks in India	Dr. Jacob K K

Even though other departments do not possess approved research centres, research activities are in full swing. The following faculty members are engaged in research activities.

Department of Physics

- 1) Dr. Varghese Mathew
- 2) Dr. K.C.Mathai
- 3) Dr. Jochan Joseph
- 4) Dr. Lekshmi Vijayan

Department of Mathematics

- 5) Dr. Indulal G
- 6) Dr. Mary George
- 7) Dr. Jubin Antony (Statistics)

Department of Zoology

- 8) Dr. Suja N
- 9) Dr. Shibu George
- 10) Dr. Tessa Thomas

Department of Physical Education

- 11) Dr. Biju Lukose

The department of Physics has already applied for the research centre and the departments of Mathematics and Zoology are on their way to institute research centres in their respective departments.

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

The college level research committee comprises the principal and senior faculty members and it works under the IQAC. Each department has a research committee consisting of the HOD and two senior faculty members to facilitate the research work of faculty. It promotes the research aptitude among the students also. Such committees periodically monitor the research status of faculty members and provide necessary recommendations for their further work. It also guides the students in their project works as prescribed by the university curriculum and allocates various research topics to them.

The Committee;

- 1) Encourages the faculty members to publish their research findings in reputed journals. As good as 89 papers have been published in various journals since the last accreditation.
- 2) Allocates different topics for the students' project which is mandatory under the new curriculum.
- 3) Recommends purchase of sophisticated instruments for various science departments with a view to facilitating research work.
- 4) Makes the faculty members be aware of the availability of research grants of different funding agencies and also informs them about the related notifications.
- 5) Makes suggestions to submit proposals to UGC and other funding agencies for improving the research ambience. As a result, during the 11th Plan of UGC, a special assistance was sanctioned for the improvement of Physics research lab and for the installation of a computational lab with MATLAB and MATHEMATICA.
- 6) Encourages research works in
 - ◆ Graph Theory
 - ◆ Theoretical computer Science
 - ◆ Thin films
 - ◆ Opto-electronics
 - ◆ Nano science
 - ◆ Sol-gel optics
 - ◆ Solid state ionics
 - ◆ Fisheries and aqua culture

- ◆ Biotechnology
 - ◆ Microbiology
 - ◆ Sports training and Yoga
- 7) Submitted applications for six National seminars for financial assistance from UGC and got the approval for all of them. Five seminars were conducted during 2009 - 2013. The sixth one that got approval, will be conducted during the Jubilee Year, 2014- 15.

As per the recommendations of the committee, the following achievements have been accomplished since the last accreditation.

Table 3.2 – Achievements attained by the faculty

Sl. No	Name of Faculty	Achievements earned
1	Dr. N. Suja, Department of Zoology	Post-doctoral fellowship from DST
2	Sri Joseph Sam, Associate Professor, Department of Commerce	M.B.A in Educational Management
3	Smt. Kochuthressiamma Joseph, Associate Professor, Dept of Mathematics	M.Phil under the 10 th Plan of UGC
4	Dr. Biju Lukose, Assistant Professor, Department of Physical Education	Ph.D
5	Dr. Indulal G, Associate Professor, Department of Mathematics	Ph.D under the 10 th Plan of UGC
6	Dr. Jochan Joseph, Associate Professor, Department of Physics	Ph.D under the 10 th Plan of UGC
7	Dr. Kuriachan George, Associate Professor, Department of Commerce	Ph.D under the 10 th Plan of UGC
8	Dr. Varghese Mathew, Associate Professor, Department of Physics	Ph.D
9	Dr. Varghese Mathew, Associate Professor, Department of Physics	Four – year B.C.S Degree
10	Dr. K.C.Mathai, Associate Professor, Department of Physics	Ph.D
11	Smt. Neethu Mary Tomy, Assistant Professor, Department of English	Registered for PhD
12	Smt. Sherin Mathichippampil, Assistant Professor, Department of English	Registered for PhD
13	Smt. Bittu Ann Chacko, Assistant Professor, Department of Economics	Registered for PhD

- 1) The committee finds out the specific areas in the respective fields of the faculty and students, for which an interaction with experts is essential. Based on the notifications of UGC and other funding agencies, the committee monitors the applications to be forwarded to convene seminars and conferences.
- 2) The committee recommended to submit twelve Minor Research Proposals for financial assistance from the UGC and eleven have been sanctioned since the last accreditation.

Table 3.3 - Details of the minor research project sanctioned.

Sl. No	Name of Principal Investigator	Funding agency	Amount in Rs	Year
1	Sri. Tony Antony, Associate Professor, Dept. of Commerce	UGC	55,000/-	2008
2	Dr. Indulal G, Associate Professor, Dept. of Mathematics	UGC	80,000/-	2009
3	Dr. Jacob K K, Associate Professor, Dept. of Commerce	UGC	60,000/-	2009
4	Dr. Jochan Joseph, Associate Professor, Dept. of Physics	UGC	1,31,000/-	2010
5	Dr. K.C. Mathai, Associate Professor, Dept. of Physics	UGC	1,30,000/-	2010
6	Sri. Varghese Antony, Associate Professor, Dept. of Chemistry	UGC	1,10,000/-	2011
7	Dr. Biju Lukose, Assistant Professor, Dept. of Physical Education	UGC	1,00,000/-	2011
8	Dr. N. Suja, Assistant Professor, Dept. of Zoology	UGC	1,22,000	2013
9	Dr. N. Suja, Assistant Professor, Dept. of Zoology	KSCSTE	1,80,000	2013
10	Dr. Jubin Antony, Assistant Professor, Dept. of Statistics	UGC	2,00,000/-	2014
11	Dr. Lekshmi Vijayan, Assistant Professor, Dept. of Physics	UGC	2,00,000/-	2014
12	Smt. Rosmin John, Assistant Professor, Dept. of Physics	UGC	70,000/-	2014
13	Smt. Lizzymol Xavier, Assistant Professor, Dept. of Physics	UGC	2,00,000/-	2014
14	Smt. Gem Cherian, Assistant Professor, Dept. of English	UGC	50,000/-	2014

- 3) The faculty members are encouraged to attend various National and International seminars during the appropriate time of the academic year without affecting the normal academic schedule.

Table 3.4 – Programmes attended by the faculty

Year	Number of faculty	Number of programmes attended
2008-09	3	9
2009-10	13	23
2010-11	11	19
2011-12	14	35
2012-13	13	33
2013-14	4	12

The institution promotes the research culture among students and faculty through various programmes like seminars, orientation programmes, workshops and study tours. The Aloysian Research Fraternity, a recently constituted group of selected students and faculty discuss topics of research interest and present new ideas in frontiers of research. The forum initiates the publication of the Aloysian Research Journal.

The result of all these activities got reflected through the quantum jump in the number of M.Phil/PhD holders among faculty from 9 in 2008 to 21 in 2013.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?

- autonomy to the principal investigator
- timely availability or release of resources
- adequate infrastructure and human resources
- time-off, reduced teaching load, special leave etc. to teachers
- support in terms of technology and information needs
- facilitate timely auditing and submission of utilization certificate to the funding authorities
- Research friendly attitude of the management in granting permission/duty leave for attending seminars and conferences beneficial to the academic community and also for doing research.

The college Management, Principal and IQAC motivate and give ample opportunity to the faculty members to pursue Ph.D. programmes on a part-time basis or by availing the faculty improvement programme of UGC and other funding agencies.

To facilitate smooth progress and implementation of research in the college;

- All faculty members are encouraged to apply for MRP and other projects funded by various agencies. The availability and release of funds are subject to the rules and regulations of the UGC and other funding agencies. As far as possible, each department is equipped sufficiently with library books, high speed internet connection, well configured computers, laboratory equipment and other necessary stationery materials. Those who wish to carry out research outside are relieved of their duties in time to pursue higher studies.
- The utilization certificates and audit reports are submitted to the respective funding agencies in due time, obliging their rules and regulations.

The following faculty members received financial assistance from various funding agencies for securing higher academic degrees or for research projects.

Table 3.5 – Financial Assistance received

Sl. No	Name of the faculty	Funding agency
1	Dr. N. Suja, Assistant Professor, Department of Zoology	DST,UGC,KSCSTE
2	Sri. Tony Antony, Associate Professor,Department of Commerce	UGC
3	Smt. Kochuthressiamma Joseph, Associate Professor, Dept of Mathematics	UGC
4	Dr. Biju Lukose, Assistant Professor,Department of Physical Education	UGC
5	Dr. Indulal G, Associate Professor,Department of Mathematics	UGC
6	Dr. Jochan Joseph, Associate Professor,Department of Physics	UGC
7	Dr. Kuriachan George, Associate Professor,Department of Commerce	UGC
8	Dr. Varghese Mathew, Associate Professor,Department of Physics	UGC
9	Dr. K.C. Mathai, Associate Professor,Department of Physics	UGC
10	Sri. Varghese Antony, Associate Professor, Department of Chemistry	UGC
11	Dr. Jacob K K , Associate Professor,Department of Commerce	UGC
12	Dr. Jubin Antony, Assistant Professor,Department of Statistics	UGC
13	Dr. Lekshmi Vijayan, Assistant Professor,Department of Physics	UGC
14	Smt. Rosmin John, Assistant Professor,Department of Physics	UGC
15	Smt. Lizzymol Xavier, Assistant Professor,Department of Physics	UGC
16	Smt. Gem Cherian, Assistant Professor,Department of English	UGC

Technical difficulties or administrative hazards have not hindered the research activities of the faculty members engaged in academic pursuit.

Under the coordination of IQAC, an Aloysian Research Fraternity is formed to bring the researchers and those with research aptitude, on a common platform and make academic discussions and facilitate the publication of working papers and research manuscripts.

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

- 1) The institution whole-heartedly supports and promotes scientific temper and research culture among the faculty members and students by:
 - a) Offering various academic interactions with leading scientists and prominent personalities and arranges platforms for the students to interact with scholars.
 - b) Guiding the students in selecting topics, conducting surveys and completion of research programmes on the basis of the recommendations from the research committees,
 - c) Organising various seminars and workshops and short-term talks from time to time.
 - d) Ensuring the participation of students in National and regional seminars and motivating them to do research and gain knowledge in latest developments.
 - e) Inviting great scholars and eminent personalities from reputed institutions and different walks of life for interactive sessions on recent developments in the areas concerned.

Many scholars, to name a few, have had interactions with the students of the college.

Table 3.6 – List of Resource Persons

Sl. No	Resource Person	Institute / Whereabouts	Year
1	Sri. Sojan Joseph	Institute of Accountants, Kochi	2008
2	Sri. Reji Jacob	JRG Securities, Kochi	2008
3	Sri. Arun Leslie	JRG Securities, Kochi	2008
4	Dr. S. Vijaykrishnan	S.D. College, Alappuzha	2008
5	Dr. T.G. Deepak	IIST, Trivandrum	2008
6	Sri. Perumpadavam Sreedharan	Famous literary figure and Vayalar awardee	2008
7	Sri. Sivaramapillai	Govt. College, Kottayam	2008
8	Sri. Mathew C Mathews	CMS College, Kottayam	2008
9	Dr. K.K. Narayanan, Dr. M.L. Joshi, Dr. M.C. Abani and Dr. Thomas Kurian	Bhabha Atomic Research Centre, Mumbai.	2008
10	Rev. Fr. Mathew Chandrankunnel	Educationist	2009
11	Dr. Jose Mathew	S B College, Changanacherry	2009
12	Dr. Ambalapuzha Gopakumar	Renowned historian, critic and poet	2009
13	Sri. Nelson P Thomas	St. Thomas College, Kozhencherry	2009
14	Dr. Koshy George	St. Thomas College, Kozhencherry	2009
15	Dr. Gayathri	T.D. Medical College, Alappuzha	2009

16	Adv. Suresh Koshy	Leading advocate	2009
17	Sri. Prejith P	NIIT, Tiruvalla	2009
18	Smt. Beena Cherian	NSS College, Changanacherry	2009
19	Smt. Shailajakumari	NSS College , Changanacherry	2009
20	Sri. M. Thomas Mathew	Writer and Critic	2009
21	Dr. H.S. Ramane	Gogthe Institute, Karnataka	2009
22	Dr. R. Balakrishnan	Bharatidasan University	2009
23	Dr. A. Vijayakumar	CUSAT	2009
24	Dr. K.G. Padmakumar	Agricultural Research Station, Kumarakam	2010
25	Sri. Georgekutty Augusthy	Leading counselor	2010
26	Sri. V. Krishakumar	Deputy Chief EIGB	2010
27	Dr. Raveendran	Marine Biologist, CMFRI	2010
28	Dr Jose P Jacob	S.B College, Changanacherry	2010
29	Dr. Issac Paul	S.B College, Changanacherry	2010
30	Sri. Pratheesh R	U.C College, Aluva	2010
31	Dr. Vanaja V	N.S.S College , Changanacherry	2010
32	Sri. Kavalam Narayanappanikkar	Renowned theatre personality	2010
33	Dr. K. Unnikrishnan	NSS College, Changanacherry	2011
34	Dr. Mathews M George	B A M College , Thuruthikkad	2011
35	Dr. G. Umesh	NIIT Surathkal	2011
36	Dr. M.R Anantharaman	CUSAT	2011
37	Dr. Sharadakkutty	D.B. College, Pampa	2012
38	Smt. Jisha Jacob	S D College, Kanjirappally	2012
39	Sri. V.J. James	Senior scientist and writer, ISRO, Trivandrum	2012
40	Sri.N. K. Sukumaran Nair,	Gen. Secretary, Pampa Pariraksha Samithy	2012
41	Dr. S. B. Syamala	MG College, Trivandrum	2012
42	Dr. R. Harikumar	Energy Technologist, National Energy Mission	2012
43	Dr. R Sreekumar	S D College, Alappuzha	2013
44	Sri. Job Joseph	S B College, Changanacherry	2013
45	Dr. J. G. Ray	MG University, Kottayam	2013
46	Dr. Venu	NSS College, Changanacherry	2013
47	Dr. Chandika Balan (Chandramathi)	Famous author, translator, critic and academic	2014
48	Prof. Bill Sheils and Mrs. Sheils York University, UK	Eminent Economist	2014

- 2) For the development of scientific temper and research culture and aptitude among the students, each department ensures that at least one seminar is presented by the students on a non-syllabus topic by making use of the library books and the latest information technology.
- 3) INFLIBNET service is made available in the library so that the students can get the latest study materials in the form of books and journals free of cost.

- 4) In order to enhance the research aptitude among students, the teachers themselves serve as role models by publishing their research findings in various National and International Journals. The same is intimated to students through public address system and notices. The copies of published manuscripts are made available in the college library.
- 5) All the P.G departments encourage the students to take up their Project work with a research objective. As a result of this *Sri. Padmakumar, Sri. Obey Koshy, Sri. Wilson P Thomas, Sri. Indulal C R, Kum. Mareena Aloysius, Kum. Jini Thomas* of Department of Physics and *Smt. Saino Hanna Varghese* of Dept of Chemistry have successfully completed their work leading to PhD in various institutions. *Kum. Sonia Joseph and Kum. Betty Varghese* of Department of Physics completed their M.Phil.
- 6) Each department takes initiatives and as far as possible materializes at least one National Seminar on the current emerging topics and thus provide an opportunity to the academic community to have an interaction with the resource persons.
- 7) The department of Zoology is taking the following measures to ensure the enhancement of scientific temper among students;
 - a) Motivating and guiding students for active participation in scientific research, to apply for research fellowships such as KVPY, INSPIRE etc.
 - b) Motivating and making the students to get involved in research projects for one year.
 - c) Motivating and guiding students in their research projects and encouraging them to participate in seminars/ workshops and conferences.
 - d) Motivating and guiding students to get their research work getting published.
 - e) Taking the students to various research institutions and giving opportunities to visit the scientific labs.
 - f) Encouraging girl students to participate in “Women Achievers Meeting”.
 - g) Making the students involve in group activities such as collection, identification, preservation of specimens, museum maintenance, aquarium construction and maintenance, poster presentations, surveys on various scientific aspects etc.
 - h) Motivating and supporting them to visit and utilize libraries of other institutions.
 - i) Making the availability of publications of National level Scientific Institutions for students’ reference.
 - j) Creating awareness among students for internet browsing of different science related websites, National and International journals.
 - k) Imparting computer knowledge on Microsoft Word, Excel, Power Point etc. and to encourage the use of ICT.
 - l) Teaching basic Mathematics and Statistics for analyzing their research results
 - m) Frequent field visits to biodiversity spots, research organizations, hatcheries, farms etc
 - n) Provide 15 days intensive training on induced breeding of fishes, hatchery and farm operation and maintenance.
 - o) With financial assistance from KSCSTE, the department is conducting various programmes for science popularization.

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

The faculty members are in active research and it is reflected in the collaborative works they carried out in past years.

Table 3.7 – Details of the works

Sl. No	Name of faculty	Nature of Collaboration/area	Collaborating resource person/Institute
1	Dr. Aniyankunju P C, Principal	Research guide in Economics	Government College, Kottayam, Mahatma Gandhi University
2	Dr. Indulal G, Associate Professor, Department of Mathematics	Research/ Distance spectrum of various graph products	Dr. Dragon Stevanovic, University of Primorska, Slovenia
3	Dr. Indulal G, Associate Professor, Department of Mathematics	Research/ Equinergetic graphs and Equi D-energetic graphs	Dr. Ivan Gutman, University of Kragujevac, Serbia
4	Dr. Indulal G, Associate Professor, Department of Mathematics	Research/ Josian and Indu-Bala product of graphs and their spectrum	Dr. R. Balakrishnan, Bharatidasan University, Trichy
5	Dr. Mary George, Asst Professor, Department of Mathematics	Research/ Artificial intelligence and artificial neural networks	MACFAST, Thiruvalla.
6	Dr. Jochan Joseph, Associate Professor, Department of Physics	Research guide in Physics	Bharathiar University, Coimbatore
7	Dr. Jochan Joseph, Associate Professor, Department of Physics	Research guide in Physics	Karpagam University, Coimbatore
8	Dr. Biju Lukose, Asst. Professor, Dept. of Physical Education	Research guide in Physical Education	Bharathiar University, Coimbatore
9	Dr. Biju Lukose	Research guide in Physical Education	Karpagam University, Coimbatore
10	Dr. Varghese Mathew, Dr. Jochan Joseph, Dr. K.C Mathai, Associate Professors, Department of Physics	Research	Sophisticated Test and Instrumentation Centre -STIC(CUSAT), ST Hindu College, Nagercoil, ML Sukhadia University, Udaipur
11	Dr. Suja N, Asst. Professor, Department of Zoology	Research	Dr. Clyde Mackenzie, Shellfish Biologist, James Howard University, USA
12	Department of Zoology	Research and academic updation	CMFRI, CIFT, MPEDA, NIO and State Fisheries Department

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

The following seminars and programmes have been conducted since the last accreditation of the institution.

Table 3.8 – Details of seminars / programmes

Sl. No	Topic of seminar	Resource person	Date
1	Complex Analysis	Dr Vijayakrishnan, S.D College, Alappuzha	1.11.2008
2	Mathematical Modeling	Dr T G Deepak, IIST, Trivandrum	1.11.2008
3	Western Literacy Theory	Dr. R. Indulal, S.D College Alappuzha	17.1.2008
4	Trends in Modern and most modern poetry	Dr Noel Jose S.B. College, Changananchery	17.1.2008
5	Water Pollution and Deteriorating wetlands in Kuttanad	Dr. Thomas Mathew, Marthoma College, Thiruvalla	18.1.2008
6	Pharmacological properties of Marine Fauna and Flora	Dr. Raveendran, Marine Biologist, CMFRI, Tuticorin	7.10.2008
7	Biodiversity and Sustainability	Dr. K Reghunath ,S D College, Alappuzha	15.7.2008
8	The Pharmaceutical properties of sea	Dr. E. M. Abdul Samad, Senior Scientist, C.M.F.R.I, Mandapam, Tamil Nadu	9.4.2008
9	Complex Analysis	Dr. Jose K P, St Peters College, Kolencherry	25.9.2008
10	Inter –collegiate seminar on ‘Non linear optics’	Dr. Achamma Kurian, Catholicate College, Pathanamthitta	26.9.2008
11	Inter – collegiate workshop on Experimental Physics	Sri. Mathew C Mathews, CMS College, Kottayam	10.2.2008
12	Career guidance class	Sri. V. Krishnakumar, Deputy Chief, EIGB, M.G. University, Kottayam	24.10.2008
13	Soft skills development	Judson Faber, Centre Head, International Institute for Learning in Management. Kochi	13.11.2008
14	Career opportunities	Sri. Balachandran, J. C’s Trainer	28.11. 2008
15	Workshop on experimental physics for PG students	Dr. K.P. Satheesh Sri. Sivaramapillai Govt. College, Kottayam	16.12.2008
16	Career in Logistics	Sri Sojan Thomas ,TIME Trivandrum	31.12.2008

17	Entrepreneurship Development Schemes of the District Industries Centre	Smt. Rosamma P. T, General Manger, DIC Alappuzha	15.1.2009
18	Today's life style and cataract	Dr. Issac Thomas, S B College, Changanacherry	3.10.2009
19	Modern Trends in Agriculture	Dr. Benno Perera F.G, St. Albert's College, Eranakulam	7.7.2009
20	Raman Spectroscopy	Dr. Issac Paul, S.B. College, Changanacherry	7.10.2009
21	Criticism	Dr. Ambalappuzha Gopakumar	30.7.2009
22	Healthy family relations and mental peace	Dr. Gaythri, Clinical Psychologist, T.D. Medical College, Alappuzha	8.10.2009
23	Biodiversity of the western ghats	Sri. Nelson P Thomas, St. Thomas College, Kozhencherry	22.9.2009
24	How to identify original currency from fake currency	Dr. Koshy George, St. Thomas College, Kozhencherry	24.9.2009
25	New trends in Physics	Dr. K. Radhakrishnan, NSS College, Changanacherry	10.2.2009
26	Food Additives, Adulterants and their testing	Smt. Beena Cherian, N.S.S. College, Changanacherry	21.10.2009
27	Vedic Mathematics	R. Shailajakumari NSS College, Changanacherry	26.10.2009
28	Awareness programme on nuclear energy and radiation	Dr. K.K. Narayanan, Dr. M.L. Joshi, Dr. M.C. Abani and Dr. Thomas Kurian of BARC, Mumbai	11.2.2009
29	Physics through ages: A peep to Heavens	Physics faculty members St. Aloysius College, Edathua	12.3.2009
30	UGC sponsored National Seminar in Mathematics		12.8.2009
31	Education towards excellence	Dr. C. G. Geetha, Principal, Dawn International School, Kochi	13.2.2010
32	Bio-ingredients of corals	Dr. Raveendran, Marine Biologist, CMFRI, Tuticorin	16.3.2010
33	Conservation of River System	Sri. Jose P. Jacob, S.B. College, Changanacherry	29.7.2010
34	Fuzzy mathematics	Pratheesh Abraham, U C College, Aluva	08.07.2010
35	Opportunities in Today's Insurance Sector	Sri. Somarajan P.S, Master Investments	30.8.2010
36	Feminism	Dr. Vanaja NSS College, Changanacherry	20.10.2010
37	Fund Management	Sri. Jacob Pozhiyakam, Muthoot Fin. Corp	11.2.2010
38	Spectroscopy	Dr. Issac Paul, S.B. College, Changanacherry	11.8.2010

39	Inter Collegiate seminar on "Tensor Analysis"	Dr. K.P Satheesh, Govt. College, Ampalappuzha Dr. Indulal G, St. Aloysius College, Edathua	15.11.2010
40	Inter disciplinary mathematical applications	Dr. G. Indulal ,St. Aloysius College, Edathua	15.11.2010
41	Tensor analysis	Dr. K.P Satheesh, Govt. College, Ambalapuzha	15.11.2010
42	Post Colonialism	Dr. R. Indulal, S.D College Alappuzha	24.11.2010
43	Life Style Diseases with Special reference to Youth	Dr K G Padmakumar, Medical College, Alappuzha	1.11.2011
44	Digital Signal Processing	Sri. G. Srinivas ,Govt. College, Kottayam	13.3.2011
45	Online trading in the Equity Market	Sri. Kuruvila Joseph of Geojith Securities	15.7.2011
46	UGC sponsored National Seminar in Physics		19.8.2011
47	Mechanoluminescence and its applications	Dr. B.P. Chandra, Pandit Ravi Sankar, Sukla University, Raipur	19.8.2011
48	Preparation and characterization of transparent conducting oxide tin films	Dr. S. Uthanna, S.V. University, Tirupathi	19.8.2011
49	Single crystals for Second harmonic generation	Dr. C. K. Mahadevan, S.T. Hindu College, Nagarcoil	20.8.2011
50	Oxide nano structures for luminescent applications	Dr. M. K. Jayaraj, CUSAT,Kochi	20.8.2011
51	Glimpses of Shakespear's Tragic World	DR C C Thomas , S.B College, Changanancherry	24.8.2011
52	Research awareness interactions	Dr. G. Umesh of NIIT Surathkal, Dr. M.R Anantharaman of CUSAT, Dr. C.K. Mahadevan ST Hindu College, Nagercoil and Dr K.P. Satheesh , Principal Maharajas College	25.8.2011
53	Introduction to Space Physics	Dr. K. Unnikrishnan, NSS College, Changanacherry	23.9.2011
54	Interesting aspects of Mathematics	Dr. Mathews M George , BAM College, Thuruthikkad	25.11.2011
55	New Accounting Practices	Sri. Tharian Joseph, MD, Institute of Accountants, Calicut	12.11.2011
56	Indian writing in English	Dr. Vinod V B, NIT, Trichy	19.12.2011
57	Fish farming and Aquaculture development in Kerala	Dr. R.K. Jose, Centre for fisheries Science, Panangad	21.12.2011
58	Towards better health	Dr. Viju Kuttickal, Medical Officer, Alappuzha	14.1.2012
59	Personality-Integral Development	Rev. Fr. James Kumbathanam, Procurator, Arch Diocese, Tiruvalla	14.1.2012

60	Clean energy options and nuclear safety	Dr. S. B. Syamala, M.G. College, Trivandrum	22.2.2012
61	Awareness programme on AIDS	Fr. Thomas, Kochelechamkalam	3.12.2012
62	Advanced Ceramics – An overview	Dr. H. Padmakumar, NSS College, Pandalam	19.4.2012
63	One day seminar on Health of youth	Dr. Venu, NSS College, Changanacherry	7.9.21022012
64	Seminar on Kuttanad package and water system	N. K. Sukumaran Nair, General Secretary, Pampa Pariraksha Samithy	17.7.2012
65	UGC sponsored National Seminar in Zoology		21.8.2012
66	Research prospects in Physics	Dr. M. R. Anantharaman, CUSAT, Kochi	22.8.2012
67	Steps to improve Physics Learning	Dr. C. K. Mahadevan, S.T. Hindu College, Nagarcoil	22.8.2012
68	Light-Matter Interactions	Dr. R. Jayakrishnan, Christian College, Chengannur	26.9.2012
69	Unveiling Augustus Cauchy	Jisha Jacob , S D College, Kanjirappalli	28.9.2012
70	Radiation Protection An introduction-Nuclear Radiation Radiation Dosimetry	Dr. K. K. Narayanan Dr. Thomas Kurian Dr. M.L. Joshi Dr. M.C. Abani , Bhaba Atomic Research Centre (BARC), Mumbai	10.2.2012
71	One day orientation programme on student mentoring	Sri. Job Joseph, SB College, Changanacherry	11.12.2012
72	Inter Collegiate seminar on “Electrodynamics”	Dr.N.V.Unnikrishnan , M.G. University, Kottayam Dr. K.P. Satheesh , Govt. College, Kottayam Dr. Ison V, St. Thomas College, Palai	15.11.2012
73	Relativistic electrodynamics	Dr. K.P Satheesh, Govt. College, Ambalapuzha	16.11.2012
74	Awareness programme on Plastic free campus	Dr. J. G. Ray, MG University, Kottayam	14.12.2012
75	UGC sponsored National Seminar in Physical Education		19.12.2012
76	Demonstration campaign on solar panel and solar water heaters	Dr. R. Harikumar, Energy Technologist, National Energy Mission	27.1.2013
77	Fractal Geometry	Dr. R Sreekumar ,S.D College, Alappuzha	27.8.2013
78	One day women awareness programme “technological advances in transforming women’s lives”	Dr. K. G. Padmakumar, Regional agricultural Research Station, Kumarakom	18.11.2013

The following Animation/ Lifeguidance Programmes have been conducted since the last accreditation of the institution.

Table 3.9 – Animation/ Lifeguidance Programmes

Sl. No	Benefactors	Resource person	Date
1	Students on” Organ transplantation”	Shri. Kurian Thoompunkal, Social activist	6.1.2012
2	Teaching and non teaching staff on “Role of Teachers”	Dr. George Samuel, Thiruvalla (Rtd. Scientist, BARC)	18.6.2008
3	Students on “How to a good listener”	Rev. Fr. Antony Puthenpura	18.6.2008
4	First year Degree students on “Become a social animal”	Mr. Nixon, HRD Trainer, Thiruvalla	23.8.2008
5	Students on “ Light for life”	Fr. Antony OCD and Fr. Joseph, CANA, Changanacherry	17.10.2008
6	Students “Personality Improvement”	Sri. Mammen Joseph, HRD Trainer, Alappuzha	1.1.2009
7	First year C.B.C.S.S. UG students on “ The new CBCSS rules”	Dr. Issac P Thomas, K.G. College, Pampady and Sri. James Sebastian, St.Aloysius College, Edathua	9.7.2009
8	Teaching staff “Horizons of a teacher”	Rev. Fr. Mathew Chandrankunnel	9.7.2009
9	Non-teaching staff	Sri. Antony Thomas	9.7.2009
10	Teaching staff On “ ICT for teachers”	Rev. Fr. Abraham Mulamoottil, MACFAST, Thiruvalla	9.7.2010
11	Teaching staff “Moral Values – A role model”	Rev. Dr. Jacob Koippally of CANA, Changanacherry	1.7.2011
12	Students on “Family Relations”	Shri. Georgekutty Augusty, Kanjirappilly	1.7.2011
13	Stuents on “ Impact of Vedas in modern life”	Shri. Ananthan Nampoothiri	7.1.2011
14	Teaching staff on “General Informatics”	Faculty from IT mission, Kerala	26.8.2011
15	Students on “ Face life with a smile”	Dr. Varghese Mathew	4.6.2012
16	Teachers on “ Teacher, a mentor and guide”	Dr. P.C. Aniyankunju	5.9.2012
17	Students on “ Health of youth”	Dr. Venu, Physical education NSS College, Changanacherry	7.9.2012
18	Students on “ family :- The safe haven”	Fr. Cyriac Kottayil, Director, Family Apostolate, Changanacherry	27.7.2012
19	Students on “ Cleanliness and healthy practices”	Dr. Davis, Govt. Medical College, Alappuzha	10.8.2012

20	Teaching and non teaching staff on “ Aloysian Family – A single feel”	Shri. Stephen Mathew, Councilor Expert	12.6.2012
21	Students on “ How to live and let to live”	Shri. Joshy Appicil, Councilor expert	12.6.2012
22	Students on “ Be Positive”	Shri. Joshy Appicil	12.6.2012
23	Students on “ Plastic free campus”	Dr. J.G. Ray, M.G. University, Kottayam	14.2.2013
24	Students on “ AIDS, the killer disease”	Fr. Thomas Kochelechamkalam, Director, ATHMATHA centre, Changanacherry	3.1.2013
25	Students on “ Cyber crimes”	Shri. Jacob Job, IG , Kerala Police	15.3.2013
26	Students on “ A narcotic free world”	Dr. P. Venugopal, Govt Medical College, Alappuzha	9.3.2013

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

Several faculty of this institution are actively engaged in research programmes and the following table gives their prioritized research areas.

Table 3.10 - Prioritized Research Areas

Sl. No	Name of faculty	Department	Prioritized research areas
1	Smt. Kochuthressiamma Joseph, Associate Professor, Department of Mathematics	Mathematics	Multivariate Polynomials
2	Dr. Indulal G, Associate Professor, Department of Mathematics	Mathematics	Algebraic Graph Theory
3	Dr. Mary George, Asst. Professor, Department of Mathematics	Mathematics	Theoretical computer Science
4	Dr. Varghese Mathew, Associate Professor, Department of Physics	Physics	Condensed Matter Physics
5	Dr Jochan Joseph, Associate Professor, Department of Physics	Physics	Opto -Electronics and thin films
6	Dr. K.C. Mathai, Associate Professor, Department of Physics	Physics	Nano structural materials
7	Dr. Lekhsmi Vijayan, Asst. Professor, Department of Physics	Physics	Solid State Ionics
8	Dr. N. Suja, Asst. Professor, Department of Zoology	Zoology	Reproductive Physiology and Endocrinology

9	Dr. Shibu George, Asst. Professor, Department of Zoology	Zoology	Microbiology
10	Dr. Tessa Thomas, Asst. Professor, Department of Zoology	Zoology	Biodiversity
11	Dr. Kuriachen George, Asso. Professor, Department of Commerce	Commerce	Banking sector
12	Dr. Biju Lukose, Asst. Professor, Department of Physical Education	Physical Education	Sports Training and Yoga

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

At present only the department of commerce possesses a research centre. Despite the unavailability of a research centre in other departments, the faculty took interest in inviting experts on various subjects to deliver guest lectures to the students of both UG and PG.

The institution within its limitations applies for all possible seminars and workshops and there by bringing researchers of eminence to the campus. The eminent faculties visit the campus in connection with

- 1) Seminars
- 2) Association inaugurations
- 3) Value education classes
- 4) Aloysian Beyond Curriculum Clubs
- 5) General animation programmes
- 6) The activities of Kuttanad Study centre, Bhoomithrasena, Energy club and various clubs under Aloysian Beyond Curriculum.

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

As per existing rules and regulations of the university, the aided college faculty members have no provision for sabbatical leave. But within the limitations active research works are going on which enable the faculty members to widen their knowledge through collaborative research and paper publications.

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

1. Through National and International level publications
2. Through various interactive sessions both inside and outside campus
3. Mathematics dept conducts mathematics enrichment programmes to students of neighboring schools
4. The department of physics coordinates the eclipse watching, skywatch,

other orientation programmes to Physics teachers of neighboring educational institutions

5. The department of English coordinates RELP - an interaction with English teachers of neighboring schools for an explorative research mind with regard to the quality of English teaching.
6. The Department of Zoology takes initiatives in
 - a. Preparing working papers on scientific aspects, for circulation among other colleges or organizations that work on similar areas.
 - b. Conducting surveys and awareness programmes focused on environmental protection, hygienic aspects, pollution free surroundings and sustainable utilization of resources
 - c. Conducting water quality analysis tests as per request from the local people.
 - d. Organising body mass index awareness campaign in neighboring schools.
 - e. Organising blood group determination and blood pressure checking camps.
 - f. Organising medical camps in fishing villages of Alappuzha district
 - g. Performing coastal area cleaning of Alappuzha and conducting street plays on sustainable utilization of resources and Fisheries as livelihood.
 - h. Conducting women awareness programme on cage culture practices on pearl spot and training on value added fish product development.
 - i. Organizing science popularization programmes.

3.2 Resource Mobilization for Research

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

The financial support is provided by the funding agencies such as UGC, KSCSTE in time to time as per the availability of funds and demand. The college being run under the University administration system, has no role in allocating funds. But the college took initiatives in conducting some surveys of research flavour utilizing its own funds for the benefit of the academic community.

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

The research scholars are given financial assistance by the various funding agencies which promote research and college provides seed money and reimbursement of TA to teachers attending seminars for which a financial assistance from agencies is not available.

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

The students of mathematics are made aware of the financial support of UGC, NBHM and Ramanujan fellowships for bright students. The physics department provides research funding in collaboration with STEC Trivandrum. One of the students Anu Raj was assisted with Rs.5000/- for a research project under Dr. K.C Mathai in 2009. The Department of Zoology has initiated steps for making funds available to students through schemes such as KPCR, KVPY, INSPIRE etc. Also internet facility is made available to students free of cost and the Photostat copies are made available at concessional rates for the completion of their project work which is a part of their curriculum.

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

Dr. Indulal G of the Department of Mathematics successfully completed two interdisciplinary research programmes in Mathematical Chemistry with Dr. Dragon Stevanovic and Dr. Ivan Gutman and have published 4 papers in international scientific journals and two are yet to appear.

Table 3.11 - Papers published under interdisciplinary research

Sl. No	Author	Title	Journal	Year
1	Indulal G, D. Stevanovic	Distance spectrum of Corona and cluster of graphs	Lin. Algebra and Its Appl.	To appear
2	Indulal G, R. Balakrishnan, A. Anuradha	Some New Integral Graphs	In. J. of pure and appl. Math	To appear
3	I. Gutman, G. Indulal, and R. Todeschini	Generalizing the Mc Clelland Bounds for Total π - Electron Energy	Z. Naturforsch. 63a	2008
4	Stevanovic D. and Indulal, G	The distance spectrum and energy of the composition of regular graphs	Appl. Math. Lett.	2009
5	Indulal. G. and Gutman I	D-equienergetic self-complementary graphs	Kragujevac. J. Math.	2009
6	Indulal G, I. Gutman, A Vijayakumar	Distance energy of graphs	MATCH	2009

The natural challenges that arise when working under the strict rules and technical hazards of the university do not grant that much freedom for possible transit to other research centres.

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

The faculty makes use of the available resources in the institution and the UGC which led to the following minor/major research projects.

Table 3.12 – Minor / Major research Projects

Nature of the Project	Duration	Title of the project	Name of the funding agency	Total grant		Total grant received till date
				Sanctioned	Received	
Minor projects	2009 –11	Distance spectrum of graphs	UGC	80000	55000	55000
Dr. Indulal G, Associate Professor, Dept.of Mathematics						
Dr. K. C. Mathai, Associate Professor, Dept.of Physics	2011-13	Auto ignition combustion synthesis of $M_x M_{1-x} Nb_2 O_6$	UGC	130000	1,10000	1,10000
Dr. Jochan Joseph, Associate Professor, Dept.of Physics	2011-13	Photo electronic studies of M_n dopped potassium halides	UGC	131000		1,11000
Dr. Biju Lukose, Assistant Professor, Dept.of Physical Education	2010-13	Effect of multimedia computer assisted coaching and traditional coaching on Physical and Physiological variables among Kuttanad School swimmers	UGC	1,00000	90,000	90,000
Sri. Varghese Antony, Associate Professor, Dept.of Chemistry	2011-13	Water and Soil Analysis in Kuttanad	UGC	1,10,000	88,000	88,000
Dr. N. Suja, Assistant Professor, Dept.of Zoology	2013-14	Science of Fisheies	KSCSTE	1,80,000		

Dr. N. Suja, Assistant Professor, Dept.of Zoology	2013-15	Ecobiology of Black clam	UGC	1,22,000	1,03,000	
Smt. Lizzymol Xavier, Assistant Professor, Dept.of Physics	2014-16	Characterization and studies of Metal sulphide thin films in PVA matrix prepared by spin coating technique	UGC	2,00,000	1,50,000	
Dr. Lekshmi Vijayan, Assistant Professor, Dept.of Physics	2014-16	Investigation on electrical, magnetic, electrochemical behavior of NASICON and OLIVINE materials	UGC	2,00,000	1,50,000	
Smt. Rosmin John, Assistant Professor, Dept.of Physics	2014-16	Characterization and studies of Metal sulphide thin films in SnI- Gel matrix prepared by spin coating technique	UGC	70,000	52,000	
<u>Major projects</u> Dr. N. Suja, Assistant Professor, Dept.of Zoology	2008-11	Development of shallow water techniques for the venerid clam Paphia malabarica (Chemnitz) and for the corbuculid clam Villorita cyprinoides (Grey)	D.S.T	25 lakhs	24.4 lakhs	24.4 lakhs

Each science department is equipped with basic research facilities. The basic infrastructure and instruments are reasonably provided. A100Mbps Internet connectivity has also been provided in all departments to help them in academic, administrative and research programmes. The Institution also ensures that the deserving students are supplemented with the usage of the equipment, books, journals according to their need.

- 1) The department of English uses the facility of its well equipped language lab to develop communication skills and to teach Phonetics to the needy students and staff.
- 2) The department of Mathematics is on its way to instal a computational lab

equipped with computational softwares such as MATLAB and MATHEMATICA to facilitate computational aspect of research.

- 3) The facility of the research lab set up by the dept. of physics is made available to all faculty members and students round the clock.
- 4) Resource materials such as books and journals are made available in the library for ready reference.
- 5) INFLIBNET, the knowledge at fingertip programme is to help faculty and students. High speed internet facility is made available in all departments and students can avail the same through the Network Resource Centre.

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

The institution benefits mostly from the UGC which provides funding for research through its various minor research projects. Faculty members also availed themselves of the funding from KGCSTE for organizing seminars.

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

3.3 Research Facilities

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

The Department of Commerce is a recognized research centre of Mahatma Gandhi University. Library facilities with adequate number of reference books, journals, periodicals and computer systems with net facility are provided on campus.

Further,

- 1) The department of English offers the facility at their language lab for communication development and also gives practice in phonetics.
- 2) The department of Mathematics extends the functioning of the computational lab through the installation of MATLAB and MATHEMATICA.
- 3) The physics department makes use of spin coating system, PL apparatus, Muffle furnace, Photo multiplier tube, PL and EL system, PC and PV units, Electronic balance, magnetic stirrers, Newtonian and Galilean telescopes, Binocular with high resolving power, Nano ammeter, Microvolt meter, hotplate glass wares and chemicals for the benefit of the research community. The facility of research lab in Physics is being utilized by students of our college, faculty members and also students from various other colleges to complete their project works.
- 4) In the department of Zoology Science lab, Museum, Instrumentation room, Department library, Computer with internet facility, Scientific equipment such as spectrophotometer, chromatography apparatus, centrifuge, refrigerator, pH meter, Microscope, Aquaria and cisterns are made available to research fraternity.

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

The institution has always a positive approach towards providing necessary infrastructural facilities to meet the needs of researchers.

The management together with the financial support of UGC renovated the seminar hall and elevated it to one of national standards level. A highly sophisticated smart class room and a computer lab with high speed internet facility were furnished. Maintenance and ceiling works of Physics research lab were also completed. The college has also furnished a room for the computational lab, Microbiology lab with equipment, PL apparatus, Ornamental fish hatchery and air conditioned room for algal culture.

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

The college received a special assistance of Rs 25 lakhs from UGC to furnish smart room and install PI apparatus, super computers, Refrigerators, Generators.

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

The research centre of the department of Commerce, Physics research lab, computational lab of the department of Mathematics and the department of Zoology are in proper and timely communication with the higher authorities of organizations such as KSCSTE, NBHM, STIC, where the students intend to do research related activities. The department of Mathematics has started a knowledge exchange programme which enables access to the libraries of the universities of Kerala and Cochin which is open to our students on request.

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

- 1) A full-fledged internet lab with latest configured computers and printer is set up under the information resource centre of the institution.
- 2) Books and journals of the library are made available to genuine research community.
- 3) Through the INFLIBNET services a vast ocean of knowledge in the form of books and journals is on the fingertip.
- 4) Research lab of physics extends its service to researchers by making available the equipment and expertise of the lab.
- 5) Mathematics department provides a computational lab equipped with latest computational softwares MATLAB and MATHEMATICA.

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

- a. A full-fledged smart room with LCD, smart board, book reader and necessary fixtures for the presentation of research findings.
- b. A full-fledged internet lab with latest configured computers and printer is

- set up under the information resource centre of the institution.
- c. Books and journals of the library are made available to genuine research community.
 - d. The equipments like
 - a) spin coating system,
 - b) Photo Luminescent apparatus
 - c) Muffle furnace
 - d) Photo multiplier tube
 - e) Electro Luminescent system
 - f) Photo Conductivity and Photo Voltaic units
 - g) Electronic balance, magnetic stirrers
 - h) Newtonian and Galilean telescopes, Binocular with high resolving power
 - i) Nano ammeter, Microvolt meter, hotplate glass wares.
 - j) Science lab, Museum, Instrumentation room
 - k) Spectrophotometer, chromatography apparatus, centrifuge, refrigerator, pH meter, Microscope
 - l) Aquariums and cisterns are also available in the institution for the benefit of researchers.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- * **Patents obtained and filed (process and product)**
 - * **Original research contributing to product improvement**
 - * **Research studies or surveys benefiting the community or improving the services**
 - * **Research inputs contributing to new initiatives and social development**
1. Dr. Anu Augustine, Asst. Prof., Dept.of Chemistry, had filed patent for her Non steroidal compounds in 2008 vide WO 2008/124878A1.
 2. Dr. N Suja, Asst. Prof., Dept.of Zoology, had successfully completed postdoctoral research with the funding of the Department of Science and Technology on 'Development of shallow water techniques for the venerid clam *Paphia malabarica* (Chemnitz) and for the corbuculid clam *Villorita cyprinoides* (Grey)'.
 3. Dr. N. Suja,Asst.Prof., Dept.of Zoology, was awarded a cash prize for the best paper in the Journal of Coastal Environment sponsored by the Centre for Ocean and Earth Sciences
 4. Dr. Indulal G, Asso. Prof., Dept.of Mathematics, has successfully completed two projects on distance spectrum of graphs. He also completed a collaborative work on josian and indu-bala product of graphs and published 4 papers in international journals and two papers are in press.
 5. The Equal Opportunity Centre of the college conducted a women profile study and health survey and the findings are documented.

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

The institution is all set to bring out its first volume of Aloysian Research Journal.

Aloysian Research Journal is a peer-reviewed journal dedicated to publish articles on the study of arts, humanities, social sciences and science. Any scholarly article within these domains will be considered for publication. The journal celebrates the oft-neglected connections between humanities (Language, Literature, History, Philosophy, Speech and Communication), social sciences (History, Economics, Sociology, Political Science, Psychology, Social Work) and the physical sciences (Biology, Chemistry, Mathematics, Physics, Physical Education) where the disciplines can unite, collaborate, and engage with one another towards shared research-oriented and educational goals. Pursuant to its mission, Aloysian Research Journal considers papers on subjects from all academic fields, though preference is given to papers with topics of an interdisciplinary nature or focused on the integration of teaching and research.

The editorial board now consists of Dr. Varghese Mathew, Dept of Physics St. Aloysius College, Sri. Renjith Thomas, Department of Chemistry, S B College, Changanacherry, Dr. Reena George, Dept of Education, Karmala Rani Training College, Kollam, Dr. Manju K Menon, Department of Mathematics, St. Pauls College, Kalamassery, Dr. Aparna Leksmanan S, Dept of Mathematics, St Xaviers College, Aluva, Dr. Shibu George, Dept of Zoology, St. Aloysius College and Dr. P.J. Christabel, Department of Economics, Govt. College for Women Thiruvananthapuram. Dr. Indulal G, Dept of Mathematics serves as the chief editor.

The submission of articles to Aloysian Research Journal is facilitated through the conference system Easy Chair.

3.4.3 Give details of publications by the faculty and students:

- * Publication per faculty
- * Number of papers published by faculty and students in peer reviewed journals (national / international)
- * 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.)
- * Monographs
- * Chapter in Books
- * Books Edited
- * Books with ISBN/ISSN numbers with details of publishers
- * Citation Index
- * SNIP

- * SJR
- * Impact factor
- * h-index

Table 3.13 - Publication by faculty

Sl. No	Name of faculty	Title	Journal	Citation index	Year
1	G. Indulal	Some New Integral Graphs	Applicable Analysis and Discrete Mathematics	2	2008
2	Biju Lukose	Effect of Pranayama and Asanas on Cardiovascular Endurance	Souvenir of the National Seminar on Yoga for Holistic Health	-	2008
3	G. Indulal	Equienergetic Self-Complementary Graphs	Czechoslovak Math J	25	2008
4	G. Indulal	A Note on Energy of Some Graphs	Commun. Math. Comput. Chem.	39	2008
5	G. Indulal	On Distance Energy of Graphs	MATCH Commun. Math. Comput. Chem.	74	2008
6	G. Indulal	On the Distance Spectra of Some Graphs	Math. Commun.	26	2008
7	G. Indulal	Generalizing the McClelland Bounds for Total Pi Electron Energy	Z. Naturforsch. 63a	16	2008
8	G. Indulal	The Distance Spectrum of Graph Compositions	Ars. Mathematica Contemporanea	4	2008
9	Varghese Mathew	Growth and Spectral Characterization of Cobalt Malonate Crystals	Optoelectronics and Advanced Materials – RC	2	2008
10	Jochan Joseph	Structural, Photo conductivity and Electro luminescence Studies of Mn doped barium taitrate Crystals	Opto electronics and Advanced Materials – Rapid Communication (Romania)	1	2008
11	Jochan Joseph	Studies on Physical Properties and Carrier Conversion of SnO ₂ :Nd Thin films	Turkish Journal of Physics	4	2008

12	Jochan Joseph	Effect of Anneling and Mn doping on the Photoluminescence of Strontium tartrate crystals	Journal of Luminascence	2	2008
13	Varghese Mathew, Jochan Joseph, Sabu Jacob, K.E. Abraham	The Growth and Spectral studies of Nickel Malonate Crystals	Bulg. J. Phys	2	2008
14	Varghese Mathew, Jochan Joseph, Sabu Jacob, P.A.Vargheese K.E. Abraham	Growth and Spectral Characterization Cobalt Malonate Crystals.	Optoelectron. Adv. Mater-Rapid Commun.	2	2008
15	Biju Lukose	Yoganidra and its Management among G.V.Raja sports students	Souvenir of the Internatioanal Conference and Exhibition on Sports Technology	-	2008
16	G. Govindaraj, Lakshmi Vijayan	An alternate approach for Jonscher's power law: Complex impedance spectra analysis of glassy materials.	11th Asian Conference of Solid State Ionics, Bharathiar University, June 9th -13th ,2008, Coimbatore, Tamil Nadu		2008
17	G. Indulal	Sharp Bounds on the Distance Spectral Radius and the Distance Energy of Graphs	Lin.Algebra Appl	44	2009
18	G. Indulal	The Distance Spectrum and Energy of the Compositions of Regular Graphs	Appl. Math. Lett.	28	2009
19	G. Indulal	D - Equienergetic Self - Complementary graphs	Kragujevac. J. Math.	13	2009
20	Varghese Mathew	Spectral Properties of Cadmium Malonate Crystals Grown in Hydro Silica gel	Ind. J. Pure & Appl. Phys.	-	2009

21	Varghese Mathew	Crystallization and Spectroscopic studies of Manganese Malonate	Bulletin of Material Science	4	2009
22	Varghese Mathew, Jochan Joseph, Sabu Jacob, K.E. Abraham	Spectral Properties of Cadmium Malonate Crystals Grown in Hydro Silica Gel	Ind. J. Pure & Appl. Phys.	-	2009
23	Biju Lukose	Effect of Parcours Training and Fartlek Training on Selected Physical and Physiological Variables among College students	Dynamic Facts of Physical Education and Sports Studies	-	2009
24	Lakshmi Vijayan and G. Govindaraj	Impedance spectroscopic studies of planetary ball-milled lithium titanium phosphate material	Physica B: Physics of Condensed Matter	10	2009
25	Shibu George	Antibacterial screening of seed and pericarp of medicinally important fruits of South India	STARS: International Journal (Sciences)	-	2009
26	Jubin Antony and Rao	Willingness to Pay: A Comparison between Single and Double Bound Estimators.	InterStat.	-	2009
27	Varghese Mathew	Crystallization and Spectroscopic Studies of Manganese Malonate	Bull. Mater. Sci.,	4	2010
28	Varghese Mathew	Spectroscopic and Thermal Studies of Gel-grown Copper Malonate crystals	Mod. Phys. Lett. B	3	2010
29	Varghese Mathew, Jochan Joseph, Sabu Jacob, K.E. Abraham	Spectroscopic and Thermal Studies of Gel-grown Copper Malonate crystals	Mod. Phys. Lett. B	3	2010

30	Biju Lukose	Isolated and combined effect of parcours and circuit training on speed, explosive power and cardio vascular endurance among school football players	Voice of Sports	-	2010
31	Biju Lukose	Isolated and combined effect of parcours and fartlek training on agility, cardio vascular endurance and resting heart rate among college swimmers	KGEES Journal of Social Science		2010
32	Sherin Mathichiparampil	Voice from the edge: The politics of the representation of the subaltern in adiga's the white tiger	S.B. ACADEMIC REVIEW	-	2010
33	Shibu George	2, 3-Dihydroxybenzoic Acid: An Effective Antifungal Agent Isolated from Flacourtia inermis Fruit.	International Journal of Pharmaceutical and Clinical Research	-	2010
34	Shibu George	Antimicrobial effect of Punica granatum on Pyogenic Bacteria	Journal of Pharmaceutical and Biomedical Science	2	2010
35	Shibu George	Antibacterial potency of fruit extracts of Flacourtia inermis against multidrug resistant strains and comparison of its activity with that of standard antibiotics	International Journal of Pharmaceutical Science and Biotechnology	2	2010
36	Shibu George	Antifungal activity of acetic extract of Flacourtia inermis against opportunistic pathogenic fungi	Journal of Global Pharma Technology	4	2010

37	Shibu George	Antiprotozoal activity of the crude extract of Flacourtia inermis fruit by microscopic count method	International Journal of Pharmaceutical & Biological Archives	-	2010
38	Shibu George	A Review on the Medicinal Significance of Common Fruits	International Journal of Biomedical Research and Analysis	-	2010
39	Shibu George	In vitro antibacterial activity of methanolic extract of fruit pericarp of Punica granatum against respiratory tract pathogens isolated from patients	Proceedings of 22 nd Kerala Science Congress	-	2010
40	Jubin Antony and Rao	Contingent Valuation: A review with Emphasis on Estimation Procedures	InterStat.	-	2010
41	Jubin Antony and Rao	On Comparison of Model-based and Design-based Estimators of Mean for Count Data with Excess Zeros	International Transactions in Mathematical Sciences & Computer	-	2010
42	J. K. Thomas, H. Padmakumar, Sam Soloman, K. C. Mathai, J. Koshy	Nanocrystalline SrHfO ₃ synthesized through a single step auto-igniting combustion technique and its characterization.	J. Alloys and Compounds	5	2010
43	Lakshmi Vijayan, Rajesh Cheruku, G. Govindaraj, S. Rajagopan	Electrical relaxation studies of nano-crystalline Na ₃ Cr ₂ (PO ₄) ₃ prepared by solution combustion.	12th Asian Conference of Solid State Ionics, May 2nd -6th, 2010, Wuhan University, Wuhan, China		2010
44	G. Govindaraj, Lakshmi Vijayan, OdileBohnke	Anomalous relaxation and ac conductivity in ion conducting solids	12th Asian Conference of Solid State Ionics, May 2nd -6th, 2010, Wuhan University, Wuhan, China		2010

45	Lakshmi Vijayan, G.Govindaraj, S. Rajagopan	Electrical relaxation studies of nano-crystalline $\text{Li}_3\text{Fe}_{2-x}\text{Mg}_x(\text{PO}_4)_3$ synthesised by solution combustion synthesis.	5th Asian Conference on Electrochemical Power Sources, Singapore		2010
46	G. Indulal	The Spectrum of Neighborhood Corona of Graphs	Kragujevac. J. Math.	4	2011
47	G. Indulal	Spectrum of Two New Joins of Graphs and Infinite Family of Integral Graphs	Kragujevac. J. Math.	3	2011
48	Varghese Mathew, Jochan Joseph, Sabu Jacob, K.E.Abraham	Spectroscopic Characterization of Gel-grown Strontium Malonate crystals	Ind. J. Pure & Appl. Phys	4	2011
49	Varghese Mathew. K. C. Mathai- C. K. Mahadevan and K.E. Abraham	Thermal and Dielectric Studies of Nickel Malonate dihydrate Single Crystals	Physica B	2	2011
50	Varghese Mathew, Lizymol Xavier, C. K. Mahadevan and K.E. Abraham	Thermal and Dielectric Properties of Gel-Grown Cobalt Malonate dihydrate Single Crystals	Physica Scripta	1	2011
51	Varghese Mathew, Sabu Jacob, C. K. Mahadevan and K.E. Abraham	Dielectric and Magnetic Studies of Gel-grown Copper Malonate trihydrate Crystals	Materials Letters	2	2011
52	Varghese Mathew, Lizymol Xavier, C. K. Mahadevan and K.E. Abraham	A study of Thermal and Dielectric Behaviour of Manganese Malonate dihydrate Single Crystals	Journal of Thermal Analysis and Calorimetry	2	2011
53	N. Suja and K.S. Mohamed	Role of Co-operative Societies in Black Clam Fishery and Trade in Vembanad Lake	Mar. Fish. Info. Serv. T & E Ser	2	2011

54	George Shibumon., Benny P.J, Kuriakose Sunny, George Cincy, Gopalakrishnan Sarala	Antiprotozoal activity of 2, 3-dihydroxybenzoic acid Isolated from the Fruit Extracts of Flacourtia inermis Roxb. Medicinal Plants	International Journal of Phytomedicines and Related Industries	1	2011
55	Shibumon George, Benny PJ, Sunny Kuriakose and Cincy George	Antibiotic Activity of 2, 3-dihydroxybenzoic acid Isolated from Flacourtia Inermis Fruit against Multidrug Resistant Bacteria	Asian Journal of Pharmaceutical and Clinical Research.	1	2011
56	Cincy George, Sunny Kuriakose, Shibumon George, Tessymol Mathew	Antifungal activity of Silver Nanoparticle-encapsulated β -cyclodextrin against Human Opportunistic Pathogens	Supramolecular Chemistry	6	2011
57	Lakshmi Vijayan, Rajesh Cheruku, G. Govindaraj and S. Rajagopan	Ion dynamics in combustion synthesized $\text{Na}_3\text{Cr}_2(\text{PO}_4)_3$ crystallites	Materials Chemistry and Physics	7	2011
58	Lakshmi Vijayan, Rajesh Cheruku, G. Govindaraj and S. Rajagopan	Physical and electrical properties of combustion synthesized NASICON type $\text{Na}_3\text{Cr}_2(\text{PO}_4)_3$ crystallites: Effect of Glycine molar ratios	Materials Chemistry and Physics	3	2011
59	Biju Lukose	Effect of yoga practices weight training and iron yoga on strength flexibility and vital capacity among college softball players	Voice of Sports	-	2011

60	Jubin Antony and Rao	Economic Valuation of Cultivation of Mangroves: A Willingness to Work Study Using Zero Inflated Poisson Distribution	Statistica & Applicazioni	-	2011
61	K.C.Mathai	A study of dielectric and optical properties of crystalline Nb ₂ O ₅ – Nanoparticles synthesized by a modified combustion techniques	Int.J.Appl.Math.Sci.	-	2012
62	N. Suja and K.S. Mohamed	Ecological Survey of the Black clam Villorita Cyprinoides from Vembanad Lake, Kerala, India	J. Coast. Envnt.	1	2012
63	N. Suja and K.S. Mohamed	Socioeconomic Trends among Black Clam Fishing Community of Vembanad Lake	Ind. Jour. Soc. Res	-	2012
64	N. Suja and K.S. Mohamed	Biometric Relationships of Villorita cyprinoides (Gray) from Vembanad Lake	Asian Fish. Sci	-	2012
65	N.Suja	Vembanattu Kayalile Karutha Kakka Uthpadanavum Athinte Samoohika Pashcathalavum	Yojana	-	2012
66	Lakshmi Vijayan, Rajesh Cheruku, G. Govindaraj	Structure and ion transport in Li ₃ Fe ₂ (PO ₄) ₃ synthesized by solution combustion technique	Journal of Applied Physics	4	2012

67	Rajesh Cheruku, Lakshmi Vijayan, G. Govindaraj	Electrical Relaxation Studies of Solution Combustion Synthesized Nanocrystalline Li ₂ NiZrO ₄ material	Materials Science and Engineering B	8	2012
68	Biju Lukose	Effect of Yoga Pilates and Core Power Yoga on agility strength and resting heart rate among school swimmers	Voice of Sports	-	2012
69	Gem Cherian	Silence Speaks: The Verbal Void in Pushpaka Vimana	Literary Update	-	2012
70	Jubin Antony and Rao, K.A	Tests Concerning Inflated Poisson Distribution with Applications in Contingent Valuation	Proceedings of the VI International Symposium on Optimization and Statistics	-	2012
71	Varghese Mathew, Sabu Jacob, Lizymol Xavier, K.E. Abraham	Spectroscopic studies of gel-grown lanthanum malonate crystals	J. Rare Earths	1	2012
72	Varghese Mathew, Sabu Jacob, C.K. Mahadevan, K.E. Abraham	A study of thermal, dielectric and magnetic properties of strontium malonate crystals	Physica. B	-	2012
73	K.E. Abraham, V. Mathew, J. Joseph, S. Jacob	Crystallization and Spectral studies of lead malonate	Ind. J. Phys	2	2012
74	K. C. Mathai, S. Vidya, Sam Soloman and J.K. Thomas	A study of dielectric and optical properties of crystalline Nb ₂ O ₅ nanoparticles synthesized by a modified combustion technique	Int. J. Appli. Math. Sci.,	-	2012

75	K. C. Mathai, S. Vidya, Sam Soloman and J. K. Thomas	Variation in optical, dielectric and sintering behavior of nanocrystalline NdBa ₂ NbO ₆ .	In Press		2012
76	Rajesh Cheruku, Lakshmi Vijayan , G. Govindaraj	Structural and Electrical Relaxation Studies of Nanocrystalline Li ₂ MgTiO ₄ Material	Proceedings of 13 th Asian Conference of Solid State Ionics, 17-20 th July 2012, Tohoku University, Sedai, Japan	-	2012
77	Lakshmi Vijayan, Rajesh Cheruku, G. Govindaraj	Ion mobility in A ₃ Fe ₂ (PO ₄) ₃ (A=Li and Na) synthesized by solution combustion technique	Proceedings of 13 th Asian Conference of Solid State Ionics, 17 th -20 th July 2012, Tohoku University, Sedai, Japan.		2012
78	Kruthika Ganesan, Rajesh Cheruku, Lakshmi Vijayan, G. Govindaraj	Structural and electrical studies of nanocrystalline olivine type LiCoPO ₄ material	6 th Asian Conference on Electrochemical Power Sources, 5 th to 8 th January 2012, Chennai, Tamil Nadu		2012
79	Viswarupa Mohanty, Rajesh Cheruku, Lakshmi Vijayan, G. Govindaraj	Electrical conductivity studies of inverse spinel nano-structured Na _{0.5} Fe _{2.5} O ₄	6 th Asian Conference on Electrochemical Power Sources, 5 th to 8 th January 2012, Chennai, Tamil Nadu		2012
80	Rajesh Cheruku, Lakshmi Vijayan, G. Govindaraj, C. Nithya, S. Gopukumar	Electrical and Electrochemical studies of Solution Combustion Synthesized Nanocrystalline Li ₂ NiZrO ₄ material	6 th Asian Conference on Electrochemical Power Sources, 5 th to 8 th January 2012, Chennai, Tamil Nadu		2012
81	Lakshmi Vijayan, Rajesh Cheruku, G. Govindaraj, C. Nithya, S. Gopukumar	Ac Electrical Relaxation and Electrochemical Studies in LiNiPO ₄ based Olivine Systems Synthesized by Solution Combustion Technique	6 th Asian Conference on Electrochemical Power Sources, 5 th to 8 th January 2012, Chennai, Tamil Nadu		2012

82	G .Indulal	Distance spectrum of a new graph product	Int.Journal of pure and Applied Mathematics (In press)	-	2013
83	Rajesh Cheruku, G. Govindaraj, Lakshmi Vijayan	Structural and electrical conductivity studies of nanocrystalline $\text{Li}_2\text{NiTiO}_4$ material	Indian Journal of Pure and Applied Physics	-	2013
84	Viswarupa Mohanty, Rajesh Cheruku, G. Govindaraj, Lakshmi Vijayan	Synthesis, structure and electrical conductivity studies of inverse spinel $\text{Li}_{0.5}\text{Fe}_{2.5}\text{O}_4$	Indian Journal of Pure and Applied Physics	-	2013
85	Rajesh Cheruku, G. Govindaraj, Lakshmi Vijayan	Ion dynamics in sol-gel synthesized $\text{Li}_2\text{Ni}_{1-x}\text{Mg}_x\text{TiO}_4$ nanocrystallites	Materials Chemistry and Physics	-	2013
86	Biju Lukose	Effect of Swedish massage, Sports massage and Foot reflexology on agility, cardio vascular endurance and resting heart rate among college basket ball players	KGEES Journal of Social Science	-	2013
87	K.C.Mathai	Variation in optical, dielectric and sintering behavior of nanocrystalline $\text{NdBa}_2\text{NbO}_6$	Adv. Mater. Res.	2	2013
88	K.C.Mathai	$\text{SmBa}_2\text{NbO}_6$ nanopowder, an effective percolation network medium for YBCO superconductors	Advances in Material Science and Engineering		2013
89	K.C.Mathai	Structural, optical and compactness characteristics of nanocrystalline CaNb_2O_6 synthesized through an auto-igniting combustion method	Advances in Condensed Matter Physics		2013

Table 3.14 - Number of papers published by faculty and students

Sl. No	Name of faculty	Number of Papers Published in	
		International	National
1	Dr. P.C. Aniyankunju, Principal		10
2	Dr. Jubin Antony, Asst. Professor, Dept. of Statistics	5	
3	Dr. Lakshmi Vijayan, Asst. Professor, Dept. of Physics	4	3
4	Dr. N. Suja, Asst. Professor, Dept. of Zoology	2	3
5	Dr. Biju Lukose, Asst. Professor, Dept. of Physical Education	2	9
6	Dr. G. Indulal, Asso. Professor, Dept. of Mathematics	15	2
7	Dr. Jochan Joseph, Asso. Professor, Dept. of Physics	8	-
8	Dr. K.C. Mathai, Asso. Professor, Dept. of Physics	11	
9	Dr. Shibu George, Asst. Professor, Dept. of Zoology	9	-
10	Dr. Varghese Mathew, Asso. Professor, Dept. of Physics	16	3
11	Smt. Gem Cherian, Asst. Professor, Dept. of English		1

Table 3.15 – Books Edited

Sl. No	Name of faculty	Title of the book edited	ISBN
1	Dr. Lakshmi Vijayan, Asst. Professor, Dept. of Physics	NASICON Materials: Structure and Electrical properties	978-953-307-934
2	Dr. Lakshmi Vijayan, Asst. Professor, Dept. of Physics	Electron Microscopic Studies on the Lithium Ion Conducting Materials	978-84-939843-6-6
3	Dr. Biju Lukose, Asst. Professor, Dept. of Physical Education	Physical Education, Health Education and Life Skill Education	-
4	Dr. Biju Lukose, Asst. Professor, Dept. of Physical Education	Food Nutrition and Dietetic Sciences	-
5	Dr. Jochan Joseph, Asso. Professor, Dept. of Physics	Proceedings of the UGC sponsored National seminar NSLLM-2011	-
6	Dr. Indulal G, Asso. Professor, Dept. of Mathematics	Proceedings of the UGC sponsored National seminar in Graph theory in 2009	-

Table 3.16 - List of papers communicated

Sl. No	Name of author	Title of the paper communicated pending decision
1	Dr. Jochan Joseph, Asso.Professor, Dept.of Physics	Photovoltaic and Photoluminescence studies of Mn doped Barium Tartrate Crystals
2	Dr. Jochan Joseph, Asso.Professor, Dept.of Physics	Influence of M_n doping on the Structural, Photoconductivity and Electroluminescence of Strontium Tartrate Crystals
3	Dr. Jochan Joseph, Asso.Professor, Dept.of Physics	Structural, Optical and Photoelectronic properties of Mn Doped KBr Crystals Prepared by a Cost Effective Melt Growth Method
4	Dr. Indulal G, Asso.Professor, Dept.of Mathematics	Spectrum of the generalized median graph
5	Dr. Indulal G, Asso.Professor, Dept.of Mathematics	Distance spectrum of edge deleted complete bipartite graphs
6	Dr. Indulal G, Asso.Professor, Dept.of Mathematics	Distance spectrum of the INDU-BALA product of graphs
7	Dr. Indulal G, Asso.Professor, Dept.of Mathematics	Distance integral graphs
8	Dr. Indulal G, Asso.Professor, Dept.of Mathematics	Four different graph operations and resulting spectrum
9	Dr. Indulal G, Asso.Professor, Dept.of Mathematics	The spectra of generalized corona of graphs
10	Dr. Indulal G, Asso.Professor, Dept.of Mathematics	The wiener indices of some new graph operations
11	Dr. Indulal G, Asso.Professor, Dept.of Mathematics	The distance spectrum of the median and total graph of a cycle
12	Dr. K.C. Mathai, Asso.Professor, Dept.of Mathematics	A study of structural. Optical and dielectric properties of crystalline $Sr_2Nb_2O_7$ nanoparticles synthesized by a modified combustion technique

3.4.4 Provide details (if any) of

- * **research awards received by the faculty**
- * **recognition received by the faculty from reputed Professional bodies and agencies, nationally and internationally**
- * **Incentives given to faculty for receiving state, national and international recognitions for research contributions.**

3.17 – Awards/Recognition

Sl. No	Name of faculty	Awards/ Recognition
1	Dr. N. Suja, Asst.Professor, Dept.of Zoology	Awarded a cash prize for the best paper in the Journal of Coastal Environment sponsored by the Centre for Ocean and Earth Sciences in 2012.
2	Dr. K.C. Mathai, Asso.Professor, Dept.of Physics	Awarded the Dayavati Rasthogi award for the best paper in the UGC sponsored national seminar held at Women's Christian College, Nagercoil during September 1 – 2 , 2011 for the paper Elastic properties of nano structured AZrO ₃ (A= Ba, Sr) single perovskites
3	Dr. Indulal G, Asso.Professor, Dept.of Mathematics	Referee for the journals Discrete Mathematics, Linear Algebra and its Applications, Journal of Computational Mathematics, International Journal for inequalities, Applicable analysis and Discrete Mathematics, Applied Mathematics Letters, Ars Mathematica Contemporanea, Linear and Multilinear Algebra, Journal of pure and Applied Mathematics, Journal of algebra and inequalities.
4	Dr. Indulal G	Reviewer for the American Mathematical Society (AMS), Member of American Mathematical Society (AMS) and American Chemical Society (ACS)
5	Sri. Joseph Sam, Asso.Professor, Dept.of Commerce	Awarded the degree of M.B.A in Educational Management from the University of New England, Australia in 2009
6	Dr. Varghese Mathew, Asso.Professor, Dept.of Physics	Secured the four – year B.C.S Degree from Serampore University, Calcutta
7	Dr. N. Suja, Asst.Professor, Dept.of Zoology	Awarded the postdoctoral fellowship from the Department of Science and Technology.
8	Dr. N. Suja, Asst.Professor, Dept.of Zoology	Reviewer of Pharmacologia, International journal of biochemistry and biotechnology, Pakistan journal of zoology, Journal of marine biological association of India and Indian journal of fisheries.
9	Dr. Varghese Mathew, Asso.Professor, Dept.of Physics	Member of the Indian Association for Crystal Growth
10	Dr. Jochan Joseph, Asso.Professor, Dept.of Physics	Member of ISNDT – Optical Society of India
11	Smt. Gem Cherian, Asst.Professor, Dept.of English	Award for Best paper presentation in the UGC sponsored National seminar at SNM College, Malliyankara.

3.5 Consultancy

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

The industry – institution - interface is mainly done through the exposure and interactions from On the Job Training (OJT), study tours and seminars. The Entrepreneur Development Club (EDC) of the college facilitates study tours to various industrial centres. Each department takes initiatives to conduct study tours as part of the curriculum.

Table 3.18 - Institute-Industry interface

Sl. No	Team visited	Institute/industry	Year
1	Members of the ED club	Excel Glass Ltd. and KSDP, Alappuzha	2008
2	Final year B.Sc Chemistry students	Akay Flavours and Aromatics Private Limited, Elavumthitta	2008
3	Final year B.Sc Mathematics students	Ooty, Hogganackal	2008
4	Final year BA Eco. students	Cochin Stoke exchange	2008
5	Final year M.Com students	Mysore, Ooty and Wayanad	2008
6	Second year B.Sc Physics students	Mysore RIE	2008
7	Second and final year students of B.Sc Physics	Meteorological Department Trivandrum	2008
8	Second and third year B.Sc Chemistry students	Rubber Research Institute, Puthuppally	2009
9	Final year B.Com students	Verror Industrial Estate, Chnanganacherry	2009
10	Final year B.Sc Physics students	NTPC Kayamkulam	2009
11	Degree and P.G. students of Physics	V.S.S.C., Trivandrum	2010
12	Second and final year students of B.Sc Physics	Department of Physics, M.G. University	2010
13	Final year students of B.Sc Physics	Ootty (Radio Telescope)	2010
14	Fifth semester open course students	Pulimukhom ornamental fish hatchery, Thakazhi, Alappuzha (Dist.)	2011
15	Fifth semester students of Zoology	Tuticorin, Nagapattanam, Oottakmand and the research stations of CMFRI (Tuticorin), CMFRI(Cochin) and IFP (Cochin)	2011
16	III Sem. B.Sc. Zoology Students	Regional Agricultural Research Station, Kumarakom	2011

17	I sem. B.Sc. Zoology students	Travancore shrimp hatchery, Thottappally, Vishnu's ornamental hatchery, Thottappally and Pamba fish hatchery, Pazhaveedu, Alappuzha	2011
18	Final year B.Com students	Traco cable Limited, Thiruvalla	2011
19	Final year B.Sc Physics students	Ootty (Observatory)	2011
20	II sem. B. Sc. And VI sem. B. Sc. Students of Zoology	CMFRI and Mangalavanam	2012
21	VI sem. B.Sc. Zoology Students	Thattekkad bird sanctuary	2012
22	Final year B.Sc students of Mathematics	Wayanad	2012
23	Second year B.Com students	Tea factory Ootty	2012
24	Second and final year students of B.Sc Physics	Department of Physics, M.G. University	2012
25	Final year B.Com students	Wayanad Tea factory	2013

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

- ❖ The commerce department extends their consultancy service to general public in preparing tax returns.
- ❖ The mathematics department offers mathematics enrichment programme to students of neighbouring locality free of cost.
- ❖ The Chemistry department helps the farmers and related community get the acidity/alkalinity test in their soil.
- ❖ The Economics department organises various seminars useful to general public on issues like fuel price hikes, currency devaluation and various aspects of central and state government budgets.
- ❖ The Zoology department as a part of their consultancy service provides necessary cognizance in fisheries and related topics including hygiene. They also organised a one day seminar on women empowerment, sponsored by KSCSTE.

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

The institution encourages the faculty members to give invited talks and paper presentations at various seminars of academic flavor. The aim of this is the exchange of knowledge and thereby we aim to provide a consultancy service as far as the specialized area is concerned.

The following table lists the details of such activities engaged by the faculty members.

Table 3.19 - Talk/paper presented

Sl. No	Name of faculty	Title of talk/paper presented	Venue	Date
1	Dr. Biju Lukose, Asst. Professor, Dept. of Physical Education	Effect of Isolated Parcours and Plyometric Training on Cardio Respiratory Endurance (paper)	Tamil Nadu Physical Education and Sports University, Chennai	15.2.2008
2	Dr. Varghese Mathew, Asso. Professor, Department of Physics	Advanced Materials, Device and Techniques (Paper)	S.V. University, Tirupati	22.2.2008
3	Dr. Indulal G, Asso. Professor, Department of Mathematics	Mathematical Chemistry (Talk)	S. B. College, Changanacherry	15.3.2008
4	Dr. Biju Lukose, Asst. Professor, Dept. of Physical Education	Yoganidra and its Management among G.V. Raja sports students (paper)	V.I.T University, Vellore	26.3.2008
5	Dr. Indulal G, Asso. Professor, Department of Mathematics	Quiz Master	S.B College, Changanacherry	7.8.2008
6	Dr. Indulal G, Asso. Professor, Department of Mathematics	Spectral theory of distance matrices and some chemical applications (Talk)	St. Pauls College, Kalamasserry	8.8.2008
7	Dr. Indulal G, Asso. Professor, Department of Mathematics	Graphical Matrices and its Spectral Facts (Talk)	M.E.S. College, Mannarkkad	17.2.2009
8	Dr. Varghese Mathew, Asso. Professor, Department of Physics	FTIR and FT Raman studies of nano-structured lead malonate (Paper)	International Conference on Frontiers in Nano science and Technology, Cochin, Kerala	3.1.2009
9	Dr. Mary George, Asst. Professor, Department of Mathematics	Automata Theory and Formal Languages (Talk)	MACFAST, Thiruvalla	8.2.2009

10	Dr. Biju Lukose, Asst. Professor, Dept. of Physical Education	Effect of Parcours Training and Fartlek Training on Selected Physical and Physiological Variables among College students (paper)	Centre for sports, Kanyakumari	21.8.2009
11	Dr. Indulal G, Asso. Professor, Department of Mathematics	Quiz Master	Catholicate College, Pathanamthitta	21.10.2009
12	Dr. Indulal G, Asso. Professor, Department of Mathematics	Spectra of Graphs (Talk)	U.C. College, Aluva	20.11.2009
13	Smt. Gem Cherian, Asst. Professor, Dept. of English	Modern Trends in ELT (Paper)	Christian College, Chengannur	1.7.2010
14	Dr. Indulal G, Asso. Professor, Department of Mathematics	Mathematics Treat it carefully (Talk)	S.D. College, Kanjirappilly	25.3.2010
15	Dr. Kuriachen George, Asso. Professor, Department of Commerce	Teenage problems (Talk)	St John Viani Church, Kalathookkadavu	7.8.2010
16	Dr. Indulal G, Asso. Professor, Department of Mathematics	Fallacies in Mathematics and their Treatment (Talk)	Assumption College, Changanacherry	16.7.2010
17	Dr. Indulal G, Asso. Professor, Department of Mathematics	Contributions of Indian Mathematics (Talk)	TKM College, Nangiarkulangara	20.7.2010
18	Dr. Biju Lukose, Asst. Professor, Dept. of Physical Education	Effect of Yogic Practices and Circuit training on Physical and Physiological variables among college basketball players (paper)	Alagappa University, Karaikkudi, Tamil Nadu	8.3.2010
19	Dr. Indulal G, Asso. Professor, Department of Mathematics	Quiz Master	BCM College, Kottayam	18.8.2010

20	Dr. K.C. Mathai, Asso.Professor, Department of Physics	Growth and spectral characterization of strontium malonate crystals	XIV National Seminar on Crystal growth, VIT University, Vellore, Tamil Nadu	10.3.2010
21	Dr. K.C. Mathai, Asso.Professor, Department of Physics	Elastic properties of Nano Structured AZ_rO_3 (A= Ba, Sr) (paper)	Women's Christian College Nagercoil	1.9.2011
22	Smt. Gem Cherian,Asst.Professor, Dept.of English	Is there a Gender in this Text?	Christian College, Chengannur	1.9.2011
23	Sri. Joseph Sam, Asso.Professor,Dept.of Commerce	Empowering Community Through Women	St. Berchmans College, Changanacherry	15.1.2011
24	Sri. Paul Jacob, Asst.Professor, Dept.of English	A Simultaneous Reading on Amitav Ghosh's Novels The Shadow Lines and In an Antique Land.	Christian College Chengannur	2.9.2011
25	Dr. Varghese Mathew, Asso.Professor, Department of Physics	Band gap determination of some transition metal malonate crystals by diffuse reflectance spectroscopy	XV National Seminar on Crystal growth, PSN College of Engineering and Technology, Tirunelveli, Tamil Nadu	23.2.2011
26	Sri. Joseph Sam, Asso.Professor,Dept.of Commerce	Value Education for Assurance of Quality in Higher Education (Paper)	Dr. SNS Rajalakshmi College Coimbatore	18.3.2011
27	Dr. Indulal G, Asso.Professor, Department of Mathematics	Spectra of graphs with applications (Talk)	Bharatidasan University, Tiruchirappally	15.4.2011
28	Jancy Joseph , Sajna J. M (II M.Sc Physics)	ZnO Nano particles(Paper)	Maharajas College, Ernakulum	15.7.2011
30	Kum. Jancy Joseph and Sajna J.M. (Students)	Synthesis and studies of ZnO Nanocrystals	National Seminar on Nanotechnology at Maharajas College, Eranakulam	15.7.2011
29	Sri. Sajeev Joseph, Asso.Professor, Dept.of English	Popularization of English language (Talk)	St. Aloysius H.S.S. Edathua	15.7.2011
31	Smt. Joyce Joseph, Asso.Professor,Dept.of English	Grammatical usage and its implications (Talk)	St. Aloysius H.S.S. Edathua	22.7.2011

32	Dr. K.C. Mathai, Asso.Professor, Department of Physics	Autoignition Nano synthesis and Characterization of Lanthanum Barium Niobate (paper)	St. Theresa's College, Ernakulam	28.7.2011
34	Dr. K.C. Mathai, Asso.Professor, Department of Physics	Nano synthesis and characterization of Lanthanum Barium Niobate through an auto-igniting combustion technique", challenges in nanoscience and technology	St. Theresa's college, Ernakulam	28.7.2011
33	Dr. Varghese Mathew, Asso.Professor, Department of Physics	IR studies on certain metal malonates (Paper)	St. Theresa's College, Ernakulam	28.07.2011
35	Sri. Varghese P J, Asst.Professor, Dept.of English	The common errors in English language (Talk)	St. Aloysius H.S.S. Edathua	29.7.11
36	Smt. Gem Cherian,Asst.Professor, Dept.of English	The Queer in Shakespeare: Reconsidering the Moor in Othello	St Berchman's College, Changanacherry	8.12.2011
37	Dr. Indulal G, Asso.Professor, Department of Mathematics	Distance spectra of graphs (Talk)	St. Thomas College, Kozhencherry	13.8.2011
38	Dr. Varghese Mathew, Asso.Professor, Department of Physics	Photoluminescent and magnetic properties of lead malonate crystals	National Seminar on Luminescent and Lasing Materials, St. Aloysius' College, Edathua	19.8.2011
39	Kum. Shilpa. S	Band-gap Measurement of Cadmium and Lead Oxalate Crystals by Diffuse Reflectance Spectroscopy	National Seminar on Luminescent and Lasing Materials at St. Aloysius' College, Edathua	19.8.2011

40	Dr. K.C. Mathai, Asso.Professor, Department of Physics	Photoluminescence study of Nano Crystalline Lanthanum barium Niobate prepared through Auto – igniting Combustion Technique (paper)	St.Aloysius College, Edathua	20.8.2011
42	Dr. K.C. Mathai, Asso.Professor, Department of Physics	Astronomy (Talk)	Marthoma College, Tiruvalla	30.8.2011
41	Dr.Jochan Joseph, Asso.Professor, Department of Physics	Large hydron collider (Talk)	B.A.M College, Thuruthicaud	30.08.2011
43	Dr. Kuriachen George, Asso.Professor, Department of Commerce	How to become a successful youth (Talk)	CSI Church Mundakkayam	9.7.2011
44	Dr. Kuriachen George, Asso.Professor, Department of Commerce	Who is a good parent (Talk)	CSI Church Mundakkayam	9.7.2011
45	Dr. Shibu George, Asst.Professor, Department of Zoology	Ee Aashanka Lokajanatha Sradhikkumo?	Deepika Malayalam Daily	9.12.2011
46	Dr.Jochan Joseph, Asso.Professor, Department of Physics	Particle makes the universe (Talk)	St. Joseph's College Alappuzha	17.09.2011
47	Dr. Indulal G, Asso.Professor, Department of Mathematics	Integral graphs (Talk)	International Indo - Taiwan conference, AmrithaViswavidyalaya, Coimbatore	20.9.2011
48	Dr. Indulal G, Asso.Professor, Department of Mathematics	Matrices and Spectra associated with graphs (Talk)	Christ Deemed University , Bangalore	11.2.2011
49	Dr. Indulal G, Asso.Professor, Department of Mathematics	The interesting side of Mathematics (Talk)	D.B. College, Pampa, Parumala	19.11.2011
50	Dr. Indulal G, Asso.Professor, Department of Mathematics	Quiz Master	Assumption College, Changanacherry	20.12.2011

51	Smt. Sherin Mathichiparampil, Asst.Professor, Dept.of English	Voice from the edge: The politics of the representation of the subaltern in adiga's the white tiger(paper)	Marthoma College, Tiruvalla	17.1.2012
52	Dr. Varghese Mathew, Asso.Professor, Department of Physics	FTIR and FT-Raman studies of lanthanum malonate penta hydrate crystals	National Conference on Emerging trends in Spectroscopy. Marthoma College, Tiruvalla	18.1.2012
53	Kum. Devika Vijayan	DRS analysis of Mn ²⁺ doped cadmium malonate crystals	National Conference on Emerging trends in Spectroscopy. Marthoma College, Tiruvalla	18.1.2012
54	Smt. Gem Cherian, Asst.Professor, Dept.of English	The Eloquence of Silence: Analysis of the Verbal Void in Pushpaka Vimana (paper)	St. Joseph's College for Women, Alappuzha	24.1.2012
55	Sri. Paul Jacob, Asst.Professor, Dept.of English	An Amalgam of Orientalism and Occidentalism in Amitav Ghosh's The Shadow Lines(paper)	Periyar University Salem	15.2.2012
56	Sri. Paul Jacob, Asst.Professor, Dept.of English	Treatment of Eros and Thanatos in the Poetry of Sylvia Plath and Kamala Das(paper)	Annamalai University	21.2.2012
57	Dr. Varghese Mathew, Asso.Professor, Department of Physics	Diffuse Reflectance Studies of three Transition Metal Malonates (Paper)	PSN Engineering College, Tirunelveli, Tamil Nadu	22.2.2012
58	Sri. Paul Jacob, Asst.Professor, Dept.of English	Inoculating and Inculcating the Values through Education in Human Conflict Management (paper)	Annamalai University	25.2.2012
59	Sri. Paul Jacob, Asst.Professor, Dept.of English	Hidden Apartheid: Social Exclusion of Dalits (paper)	Annamalai University	26.3.2012

60	Sri. Paul Jacob, Asst.Professor, Dept.of English	Patriarchy Confronts God: A Study of Imtiaz Dharker's Poetry (paper)	Sarah tucker College Tirunelveli	30.3.2012
61	Smt. Sherin Mathichipampil, Asst.Professor, Dept.of English	Politics of liberation:A study of the gendered subaltern in bama's sangati (paper)	Deva Matha College, Kuravilangad	21.6.2012
62	Kum.Keerthi U. S., Shamna Rahuman	Emerging trends in Aquaculture, Harvesting and Post harvesting Technologies (Paper)	Marthoma College, Thiruvalla	7.3.2012
63	Kum. Jesna Joseph	Spectroscopic studies of ZnO Nanoparticles	National Conference on Current Trends in Materials Science at N.S.S. Hindu College, Changanacherry	8.3.2012
64	Dr.Jochan Joseph, Asso.Professor, Department of Physics	Preparation and Characterization of Metal Sulphide MS (M= Cd,Pb,Zn) thin films in Sol- Gel matrix by Spin Coating Technique	UGC sponsored National Seminar on Smart Materials for a Smarter World (SMSW) organized by Department of Physics, St. Berchmans College, Changanacherry	27.9.2012
65	Dr.Jochan Joseph, Asso.Professor, Department of Physics	Preparation and Characterization of Metal Sulphide MS (M= Cd,Pb,Zn) thin films in Polyvinyl Alcohol Matrix by Spin Coating Technique.	UGC sponsored National Seminar on Smart Materials for a Smarter World (SMSW) organized by Department of Physics, St. Berchmans College, Changanacherry	27.9.2012
66	Dr. Kuriachen George, Asso.Professor, Department of Commerce	How to face exam (Talk)	CSI Church Ponkunnam	13.10.2012
68	Dr. K.C. Mathai, Asso.Professor, Department of Physics	Dielectric studies of nanocrystalline Strontium niobate($Sr_2Nb_2O_7$) by a modified combustion synthesis	National seminar on new materials, research and nanotechnology, Govt. Arts college, Ooty, TN	12.9.2012

67	Dr. Varghese Mathew, Asst.Professor, Department of Physics	Infrared studies of certain transition metal malonate crystals. MC ₃ H ₂ O ₄ .2H ₂ O (M = Mn, Ni, Co, Cd).	National Seminar on New Materials Research and Nanotechnology. Govt. Arts College, Ooty, Tamil Nadu	12.9.2012
69	Dr. Shibu George, Asst.Professor, Department of Zoology	Set Pareekshayile Koottatholvi Oru Thakkeethu (paper)	Deepika Malayalam Daily	24.12.2012
70	Dr. Shibu George, Asst.Professor, Department of Zoology	Kalathinte Adayalangalilninnu Vivechichariyuka (paper)	Moolyasruthi- Chavara Cultural Centre Publication	1.7.2013
71	Dr. K.C. Mathai, Asst.Professor, Department of Physics	A study of structural. Optical and dielectric properties of crystalline Sr ₂ Nb ₂ O ₇ nanoparticles synthesized by a modified combustion technique (Paper)	2 nd International conference on optoelectronic materials and thin films for advanced technology	3.1.2013
72	Dr. Shibu George, Asst.Professor, Department of Zoology	Unaided Schoolukalude Athiprasaram Public Schoolukalkku Vinayakumbol (paper)	Golden Jubilee Souvenir- S.H.U.P.S, Ullanad	5.1.2013
73	Dr. Shibu George, Asst.Professor, Department of Zoology	Pakarcha Pani Nalkunna Munnariyippu (paper)	Deepika Malayalam Daily	12.6.2013

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

Apart from the curriculum-based programmes, the college has been organizing several outreach programmes as part of the consultancy extension of the expertise available in the college since last accreditation in 2007-2008.

- ❖ The institution organizes several programmes like community development, health and hygiene, AIDS awareness, blood donation camp and environment awareness programmes.

- ❖ The NSS unit participated in several plantation programmes both inside and outside campus. They initiated a programme of the beautification of Edathua – Takazhy road by planting 1000 saplings.
- ❖ Every year the NSS unit of the college is extending their social service to the neighbouring panchayats.
- ❖ A Red ribbon club was formed in 2011. The club members (students) participate in propaganda programmes like AIDS awareness, Safest ways of blood donation and hygienic conditions.
- ❖ The energy club in connection with Bhoomithrasena organised propaganda programmes on energy conservation and Effective utilization of non conventional energy sources to make public aware about these issues.
- ❖ The commerce department extends its consultancy service to general public in preparing tax returns.
- ❖ The mathematics department offers mathematics enrichment programme to students of neighbouring locality free of cost.
- ❖ The Chemistry department helps the farmers and related community get the acidity/alkalinity test in their soil.
- ❖ The Economics department organises various seminars useful to general public on issues like fuel price hikes, currency devaluation and various aspects of central and state government budgets.
- ❖ The Zoology department as a part of its consultancy service provides necessary cognizance in fisheries and related topics including hygiene.

The institution offers all the services free of cost being the only one centre of higher learning in this waterlogged rice bowl of Kerala.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

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

The institution offers value-education classes and several animation programmes to students with the aim of making them good citizens. The Aloysian community realizes this fact and gives prime importance to the value-based education. Value education classes are conducted. Major areas covered in the classes are positive thinking, duties and responsibilities, selflessness, patriotism, humaneness and faith in God. The book “Fragrance of values” designed by our faculty members has been fixed as the syllabus for value education classes.

The functioning of Ethics committee, Anti-narcotic cell, Counselling centre, NSS and NCC all make the students responsible citizens of the country.

Dr. K.K. Jacob engaged a session for the first year degree students so as to make them aware of the ethical rules of the college.

A new folk of students under the SKY UP is initiated in the college to bring up the overall development of the students to the heights of sky chiselling out all inertias and clear their way to become good citizens with leadership qualities.

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

The institution through its various clubs and organizations such as NSS, NCC and SKY UP provide opportunity for the students to make themselves involved in social movements. Several programmes organized by these organizations made the students involve in issues of social relevance.

Table 3.20 - Students' involvement in various social movements / activities

Sl. No	Name of the programme	Organised by	Date
1	Supplying noon - meals to the 125 mentally challenged in- mates of Snehabhavan	NSS	Every Wednesday
2	Blood group testing camp	NSS	Every year
3	AIDS awareness cycle rally	NSS	1.12.2008
4	Saplings plantation	Government of Kerala and NSS	7.7.2008
5	Anti Dowry Pledge programme	NSS	10.12.2008
6	Tsunami survey cycle rally	Naval NCC unit	17.10.2008
7	Pesticide free farming	NSS	12.10.2008
8	Seven day camp at SNDP HSS, Kuttamangalam, Kainakary	NSS	19.12.2008
9	Saplings plantation	NSS	21.12.2008
10	Adoption of ward No. 14 of Thalavady Panchayath	NSS	20.1.2009
11	World Environment Day	NSS/ Bhoomithrasena club	5.6.2009
12	Saplings plantation	Government of Kerala and NSS	22.7.2009
13	Akhila Kerala Paristhithi Sahavasa Padana Camp	Kuttanad Nature Society and the N S S Unit	11.9.2009
14	Construction of Centenary Memorial School Building, Devamatha HSS, Chennamkary, Nedumudy	NSS	18.12.2009
15	Saplings plantation	Government of Kerala and NSS	22.7.2010
16	Communal harmony day	NSS	14.8.2010
17	Construction of the school ground of Vysyambhagam H.S.S., Kanjikkuzhy	NSS	23.12.2010
18	AIDS awareness day	NSS	1.12.2011

19	Forestry day	Bhoomithrasena club	21.3.2011
20	Nagasaki day	NSS	9.8.2011
21	Reception to the world peace chain	World Peace Foundation and NSS	9.8.2011
22	Environment conservation day	NSS	25.11.2011
23	Oath to make the campus plastic free	NSS	25.11.2011
24	Health survey	NSS	12.12.2011
25	Seven day camp at Devamatha High School, Chennamkary	NSS	24.12.2011
26	Seven day camp at G.L.P.S. Madappalli, Changanacherry	NSS	22.12.2012

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

1. By conducting periodic PTA and alumni meetings.
2. By taking feedback from them and analyzing it positively.
3. By arranging orientation programmes for parents and students.

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

- The institution conducts EUREKA, a science enrichment programme; students of neighboring schools are invited to participate in it.
- On 8th January, 2010 the department of Physics made special arrangements for the neighboring academic and public community so that they could see the solar eclipse clearly.
- The Department of Physics organized stellar Fest-2010, a sky observation programme and it was led by Dr. K.C. Mathai with the help of two powerful telescopes. The event fell on the evening of 20th January, 2010. Many teachers and students from the nearby schools got benefited out of the programme.

The Department of Zoology conducts:

1. Medical camps in fishing villages
2. Coastal area cleaning
3. Street plays and drama on sustainable utilization of resources, Fisheries as livelihood etc.
4. Awareness programme for women on fish product development and cage culture of fishes
5. Water quality analysis
6. Awareness campaign in neighboring schools on obesity and body mass index
7. Awareness programmes on environment protection, pollution free surroundings etc.
8. Bridge programmes to school students on the importance of Zoology and Aquaculture

As a result of the various extension activities the students become aware of their social responsibilities. They understand the real essence and meaning of learning. They become more responsible and they enjoy team work. The students also learn how to manage events.

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

The institution through its various clubs and organizations such as NSS and NCC, Sky up provide opportunity for the students to make themselves be involved in social movements. Several programmes organized by these organizations made the students involve in issues of social relevance.

Table 3.21 – Participation of students in NSS, NCC, YRC and other National/ International agencies

Sl. No	Name of the programme	Organised by	Date
1	Supplying noon-meals to the 125 mentally challenged inmates of Snehabhavan	NSS	Every Wednesday
2	Blood group testing camp	NSS	Every year
3	AIDS awareness cycle rally	NSS	1.12.2008
4	Saplings plantation	Government of Kerala and NSS	7.7.2008
5	Anti Dowry Pledge programme	NSS	10.12.2008
6	Tsunami survey cycle rally	Naval NCC unit	17.10.2008
7	Pesticide free farming	NSS	12.10.2008
8	Seven day camp at SNDP HSS, Kuttamangalam, Kainakary	NSS	19.12.2008
9	Saplings plantation	NSS	21.12.2008
10	Adoption of ward No. 14 of Thalavady Panchayath	NSS	20.1.2009
11	World Environment Day	NSS	5.6.2009
12	Saplings plantation	Government of Kerala and NSS	22.7.2009
13	Akhila Kerala Paristhithi Sahavasa Padana Camp	Kuttanad Nature Society and the N S S Unit	11.9.2009
14	Construction of Centenary Memorial School Building, Devamatha HSS, Chennamkary, Nedumudy	NSS	18.12.2009
15	Saplings plantation	Government of Kerala and NSS	22.7.2010
16	Communal harmony day	NSS	14.8.2010
17	Construction of the school ground of Vysyambhagam H.S.S., Kanjikkuzhy	NSS	23.12.2010

18	AIDS awareness day	NSS	1.12.2011
19	Forestry day	Bhoomithrasena club	21.3.2011
20	Nagazaki day	NSS	9.8.2011
21	Reception to the world peace chain	World Peace Foundation and NSS	9.8.2011
22	Environment conservation day	NSS	25.11.2011
23	Oath to make the campus plastic free	NSS	25.11.2011
24	Seven day camp at Devamatha High School, Chennamkary	NSS	24.12.2011
25	Seven day camp at G.L.P.S.madappalli, Changanacherry	NSS	22.12.2012

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

The institution through its various clubs and organizations such as NSS and NCC, Sky up provide opportunity for the students to make themselves be involved in social movements.

Table 3.22 - Extension works

Sl. No	Name of the programme	Organised by	Date
1	Supplying noon - meals to the 125 mentally challenged inmates of Snehabhavan	NSS	Every Wednesday
2	Blood group testing camp	NSS	Every year
3	AIDS awareness cycle rally	NSS	1.12.2008
4	Saplings plantation	Government of Kerala and NSS	7.7.2008
5	Anti Dowry Pledge programme	NSS	10.12.2008
6	Tsunami survey cycle rally	Naval NCC unit	17.10.2008
7	Pesticide free farming	NSS	12.10.2008
8	Seven day camp at SNDP HSS, Kuttamangalam, Kainakary	NSS	19.12.2008
9	Saplings plantation	NSS	21.12.2008
10	Adoption of ward No. 14 of Thalavady Panchayath	NSS	20.1.2009
11	World Environment Day	NSS	5.6.2009
12	Saplings plantation	Government of Kerala and NSS	22.7.2009
13	Akhila Kerala Paristhithi Sahavasa Padana Camp	Kuttanad Nature Society and the NSS Unit	11.9.2009

14	Construction of Centenary Memorial School Building, Devamatha HSS, Chennamkary, Nedumudy	NSS	18.12.2009
15	Saplings plantation	Government of Kerala and NSS	22.7.2010
16	Communal harmony day	NSS	14.8.2010
17	Construction of the school ground of Vysyambhagam H.S.S., Kanjikkuzhy	NSS	23.12.2010
18	AIDS awareness day	NSS	1.12.2011
19	Forestry day	Bhoomithrasena club	21.3.2011
20	Nagazaki day	NSS	9.8.2011
21	Reception to the world peace chain	World Peace Foundation and NSS	9.8.2011
22	Environment conservation day	NSS	25.11.2011
23	Oath to make the campus plastic free	NSS	25.11.2011
24	Seven day camp at Devamatha High School, Chennamkary	NSS	24.12.2011
25	Seven day camp at G.L.P.S. Madappalli, Changanacherry	NSS	22.12.2012
26	Get-together of the fish farmers of Edathua Panchayath, students and government officials	Fisheries Department	11.6.2012
27	Inaugural function of Kuttanad package on Fisheries	Government of Kerala	17.8.2013
28	Women awareness programme "Fisheries – An Ocean of Options for Women Empowerment".	Department of Zoology and Aloysian Study Centre on Kuttanad	24.8.2013

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

The extension activities and clubs which are working for the overall academic and extracurricular development of the students are helping them break their inertia and make platforms for them to attend various programmes and achieve merits. The following achievements were resulted in;

Table 3.23 - Prizes bagged by students

Sl. No	Name of students	Programme	Prize	Date
1	Michael and Rahul Vijayan	Intercollegiate quiz competition at Alphonsa College, Palai	Third	7.7.2008
2	Arjun C. B and Merlin Luke	“Master Brain” inter – collegiate quiz competition held by INC College, Alappuzha	Third	14.8.2008
3	Roopesh T Haridas,	Elocution competition conducted by Circle Co-operative Union, Kuttanad	First	28.9.2008
4	Salini M.R	Essay competition conducted by Circle Co-operative Union, Kuttanad	Second	28.9.2008
5	Roopesh T Haridas	Chavara Memorial Elocution Competition 2008 at K. E College, Mannanam	Second	12.12.2008
6	Martin T Kalangara	Essay writing competition by Gandhi Smaraka Seva Kendram, S.L. Puram	First	2.10.2009
7	Martin T Kalangara	Elocution competition by Gandhi Smaraka Seva Kendram, S.L. Puram	Third	2.10.2009
8	Tessy John	Elocution competition organized by the Energy Conservation Society at T.K.M. College, Nangiarkulangara	First	2.12.2009
9	Rahul Vijayan	Essay competition conducted by KPCTA	Third	5.9.2009
10	Tessy John	Elocution competition organized at the Energy Conservation Society, Trivandrum	Second	6.12.2009
11	Lijo Kunjachan	Elocution competition organized by Kerala Sastra Sahithya Parishad, Alappuzha	First	20.11.2009
12	Tessy John	inter-collegiate elocution competition held at Assumption College, Changanacherry	First	15.12.2009
13	Lijo Kunjachan	Adv. Vinod Kumar memorial inter - collegiate debate competition	Second	16.12.2009
14	Tessy John	Adv. Vinod Kumar memorial inter - collegiate debate competition	Second	16.12.2009
15	Lijo Kunjachan	Iintercollegiate elocution competition organized by the C.M. Stephan foundation at St. Joseph's College, Alappuzha	First	15.1.2010
16	Tessy John	Essay writing competition organized by the Nehru Trophy boat race organizing committee, Alappuzha	Second	6.8.2010
17	Soniya Joseph	46th AD Sheroff memorial elocution competition at St.Aloysius College, Edathua	First	7.12.2010

18	Tessy John	46th AD Sheroff memorial elocution competition at St.Aloysius College, Edathua	Second	7.12.2010
19	Shery J. Philip	46th AD Sheroff memorial elocution competition at St.Aloysius College, Edathua	Third	7.12.2010
20	Tessy John	Inter-collegiate debate competition organized by the Parent Teacher Association of S.B. College, Changanacherry	First	22.10.2010
21	Midhun M.	M.G .University in waterpolo competition	Second	11.8.2010
22	Tessy John	State level elocution competition held at Energy Conservation Society, Trivandrum	First	12.12.2010
23	Tessy John	Elocution competition organized by the Energy Conservation Society at T.K.M. College, Nangiarkulangara	First	24.12.2010
24	Vishnu Nampoothiri	Intercollegiate Aloysian Star singer competition at St.Aloysius College, Edathua	First	25.1.2011
25	Teena T	Essay writing competition by Bhoomithrasena	First	5.6.2011
26	Soniya Joseph	Essay writing competition by Bhoomithrasena	Second	5.6.2011
27	Kavitha S	Essay writing competition by Bhoomithrasena	Third	5.6.2011
28	Asha Raju	M.G .University Badminton tournament	Third	5.11.2011
29	Rakhi Sruthimol	Interdepartmental quiz completion	First	22.8.2011
30	Rickson Oommen	Intercollegiate debate competition held by Rotary Club, Kottayam.	Third	15.10.2011
31	Rickson Oommen	intercollegiate elocution competition held by Rotary Club, Kottayam.	Third	15.10.2011
32	Prasanth M.B	Intercollegiate Aloysian Star singer competition at St.Aloysius College, Edathua	Third	25.11.2011
33	Soniya Joseph	Irene Mary Mathew Memorial interdepartmental elocution competition at St.Aloysius College, Edathua	First	13.1.2012
34	Shery J. Philip	Irene Mary Mathew Memorial interdepartmental elocution competition at St.Aloysius College, Edathua	Second	13.1.2012
35	Rickson Oommen	Inter collegiate debate competitions at St. George College, Aruvithura	Third	25.2.2012
36	Shery J.Philip	Inter collegiate debate competitions at St. George College, Aruvithura	Third	25.2.2012

37	Bibeesh M	Decathlon in M.G. University athletic meet at Maharajas College, Eranakulam	Third	27.2.2012
38	Rickson Oommen	intercollegiate debate competition held by M G University, Kottayam	Third	3.3.2012
39	Rickson Oommen	intercollegiate elocution competition held by M G University, Kottayam	Third	3.3.2012
40	Rickson Oommen	Intercollegiate elocution competition at Y. M.C. A Thiruvalla.	First	4.2.2012
41	Keerthi U. S. and Shamna Rahuman	Paper presentation at the UGC sponsored National Seminar at Marthoma College, Thiruvalla.	Trophies	7.3.2012
42	Shery J. Philip	47th AD Sheroff memorial elocution competition in Malayalam	First	7.12.2012
43	Suju T. Babu	47th AD Sheroff memorial elocution competition in Malayalam	Second	7.12.2012
44	Sonia Joseph	47th AD Sheroff memorial elocution competition in Malayalam	Third	7.12.2012
45	Priyamol P. S	47th AD Sheroff memorial elocution competition in Malayalam	Fourth	7.12.2012
46	Karthika V	47th AD Sheroff memorial elocution competition in English	First	7.12.2012
47	Shery J. Philip	47th AD Sheroff memorial elocution competition in English	Second	7.12.2012
48	College badminton women team	M.G. University ball Badminton tournamnet held at N.S.S. College, Changanacherry	Third	14.9.2012
49	College badminton men team	M.G. University ball Badminton tournament held at N.S.S. College, Changanacherry	Fifth	14.9.2012
50	Rickson Oommen	intercollegiate elocution competition held by Y.M.C.A Pathanamthitta.	Second	11.2.2012
51	Rickson Oommen	intercollegiate debate competition held by Y.M.C.A Pathanamthitta.	Third	11.2.2012
52	Anjaly P. Nair	Malayalam reading competition at St. Thomas College, Kozhenchery	Third	9.2.2012

Participation of students in various programmes

In addition to the students shown in the above table, the following also participated in / attended various collegiate and inter-collegiate programmes.

Table 3.24 - Participation of students in various programmes

Sl. No	Name of students	Programme participated / attended	Date
1	Martin T. Kalangara and Tessy John	One day workshop on leadership traits held at St. Joseph's G.H.S Alappuzha	5.8.2008
2	Justin K. Varghese and Selji Thomas	Celestial Band – 2008, the inter - collegiate camp conducted by Jesus Youth at Daivaparipalana Bhawan, Kunnamthanam	7.9.2008
3	Varghese T. T, Chacko Sakkai , Sijo Varkey, Anjumol and .Saranya	National Integration camp at Durg, Maharashtra	21.10.2008
4	Justin K. Varghese and Nair Divya Mahadevan	Workshop held at Community Environmental Resource Centre, Alappuzha	26.10.2008
5	Roopesh T Haridas	SSB coaching inNCC Officers' Training Academy at Kamptee, Nagpur	14.12.2008
6	Prajith and Robin George	National Integration camp at Pattampy , Kozhikkod	22.12.2008
7	ED Club members	Excel Glass Ltd. and KSDP, Alappuzha	25.1.2009
8	Jibin James, Tessy John, Thresiamma Varghese and Ansu Alex	Inter collegiate CSM seminar 'Sursum Corda-09' held at Assumption College, Changanacherry	18.9.2009
9	Rinu Thomas and Sri. Precious Joseph	All Kerala Inter – Collegiate Campus Cresendo – 2008 held at S.B. College, Changanacherry	28.9.2009
10	Selji Thomas and Tijomon Thomas	Councillors meeting of CSM held a St. Dominic College, Kanjirappally	17.10.2009
11	Akhil Raj(SUO) , Vishnu (UO) and Sergeant Pratheeksha	National Integration camp at Kohima	27.10.2009
12	III B.Com students	Rubber Research Institute, Puthuppally	28.10.2009
13	Sabin and Manuel Rosario	National Trekking Camp at Nedumkandam.	11.2.2009
14	Monison Michael and Akhilesh Ashok	National Integration camp at Quilon	15.10.2010
15	Students of B.Sc Zoology	one day seminar at St. Aloysius' college, Edathua on "Life style diseases with special reference to youth"	1.9.2011
16	Bony Thomas, Lithin Prakash and Akhi Anand	National Trekking Camp at Gujarath	28.2.2011
17	Syam V., Sumesh Babu and Vishnu	the inter-collegiate seminar on Consumerism held at B.K.M. College, Mannanam.	15.3.2011
18	Jancy Joseph and Sajna J. M	UGC Sponsored national seminar at Maharajas College, Ernakulam and presented paper.	15.6.2011

19	V semester Zoology students	Pulimukhom ornamental fish hatchery, Thakazhi	18.6.2011
20	Ranjani Prasad	Zoo fest show at St. Thomas College, Kozhenchery	9.2.2011
21	II sem. B. Sc. And VI sem. B. Sc. Students of Zoology	Zoo fest show at St. Thomas College, Kozhenchery	9.2.2011
22	B.Sc Zoology students	Regional Agricultural Research Station, Kumarakom	13.10.2011
23	B.Sc Zoology students	Research stations of CMFRI (Tuticorin), CMFRI(Cochin) and IFP(Cochin)	12.8.2011
24	Students of B.Sc Zoology	One day seminar at St. Aloysius' college, Edathua on "Fish farming and Aquaculture development in Kerala".	21.12.2011
25	B.Sc Zoology students	CMFRI and Mangalavanam	2.3.2012
26	B.Sc Zoology students	Orientation programme on "Counselling and Psychology" held at St. Aloysius' college, Edathua	14.2.2012
27	Anjaly P. Nair, Lakshmi Chandran, Sangeetha Vijayan and Shilpa S	Women Achievers' meeting – "Connecting girls, Inspiring future" organized by KSCSTE, Trivandrum	17.2.2012
28	Sanal K. V.	National Integration Camp at Pune	18.2.2012
29	II sem. B. Sc. And VI sem. B. Sc. Zoology Students	Intercollegiate quiz competition at S. B. College, Changanacherry.	21.2.2012
30	Anjaly P. Nair, Sri.Anoop A	One day national Seminar at St. Aloysius' college, Edathua, sponsored by KSCSTE and supported by DST.	22.2.2012
31	Ranjani Prasad	One day workshop on Bioinformatics at St. Thomas College, Kozhenchery	24.2.2012
32	B.Sc Zoology students	Thattakkad bird sanctuary	10.3.2012

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

The institution ensures the involvement of the community through NSS and Bhomithrasena clubs. These organizations take initiatives to solve issues harmful to the outside community.

The institution through its various clubs and organizations such as NSS and NCC, Sky up provide opportunity for the students to make themselves be involved in social movements. Several programmes organized by these organizations made the students be involved in issues of social relevance.

Table 3.25 – Community Development Activities

Sl. No	Name of the programme	Organised by	Date
1	Supplying noon - meals to the 125 mentally challenged in- mates of Snehabhavan	NSS	Every Wednesday
2	Blood group testing camp	NSS	Every year
3	AIDS awareness cycle rally	NSS	1.12.2008
4	Saplings plantation	Government of Kerala and NSS	7.7.2008
5	Anti Dowry Pledge programme	NSS	10.12.2008
6	Tsunami survey cycle rally	Naval NCC unit	17.10.2008
7	Pesticide free farming	NSS	12.10.2008
8	Seven day camp at SNDP HSS, Kuttamangalam, Kainakary	NSS	19.12.2008
9	Saplings plantation	NSS	21.12.2008
10	Adoption of ward No. 14 of Thalavady Panchayath	NSS	20.1.2009
11	World Environment Day	NSS	5.6.2009
12	Saplings plantation	Government of Kerala and NSS	22.7.2009
13	Akhila Kerala Paristhithi Sahavasa Padana Camp	Kuttanad Nature Society and the N S S Unit	11.9.2009
14	Construction of Centenary Memorial School Building, Devamatha HSS, Chennamkary, Nedumudy	NSS	18.12.2009
15	Saplings plantation	Government of Kerala and NSS	22.7.2010
16	Communal harmony day	NSS	14.8.2010
17	Construction of the school ground of Vysyambhagam H.S.S., Kanjikkuzhy	NSS	23.12.2010
18	AIDS awareness day	NSS	1.12.2011
19	Forestry day	Bhoomithrasena club	21.3.2011
20	Nagazaki day	NSS	9.8.2011
21	Reception to the world peace chain	World Peace Foundation and NSS	9.8.2011
22	Environment conservation day	NSS	25.11.2011
23	Oath to make the campus plastic free	NSS	25.11.2011
24	Seven day camp at Devamatha High School, Chennamkary	NSS	24.12.2011
25	Seven day camp at G.L.P.S.madappalli, Changanacherry	NSS	22.12.2012

26	Get-together of the fish farmers of Edathua Panchayath, students and government officials	Fisheries Department	11.6.2012
27	Inaugural function of Kuttanad package on Fisheries	Government of Kerala	17.8.2013
28	Women awareness programme “Fisheries – An Ocean of Options for Women Empowerment”.	Department of Zoology and Aloysian Study Centre on Kuttanad	24.8.2013

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

- 1) The NSS unit of the college joins hand with educational institutions, rotary club, police station and legal agencies in the neighboring locality to implement their social service schemes.
- 2) The department of zoology is in connection with the local fishermen, farmers and Mastyafed, Kerala Agricultural department for the effective implementation of welfare activities.
- 3) The department of Mathematics, for the implementation of extension activities such as mathematics enrichment programme, is in connection with neighboring schools.
- 4) A science experiencing programme “EUREKA”, which brings science from pages to platform, bridges the institution with the neighboring educational institutions.

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

The college was recently awarded the “Best college in Kerala Trophy” by the P.T. Chacko Foundation for its continuance effort for the cause of higher education in the water-logged Kuttanad area.

3.7 Collaboration

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

- The institution encourages its faculty members to undertake collaborative research works in their areas of interest.
- The research lab in Physics is being utilized by students from outside the college for their M.Sc project work and more than 40 students got benefitted from this.
- The library facility is made open to public and academic community of other institutions on a time slot basis.
- Faculty members Dr. P.C. Aniyankunju, Dr. Jochan Joseph, Dr. Biju Lukose, Dr. Indulal G, Dr. Mary George, Dr. Suja N and Dr Shibu George

are collaborating with other academic institutions as part of research and the outcomes are getting published in peer reviewed journals.

- Over the past five years the college collaborates with a number of agencies in order to conduct welfare activities, extension activities, job training for students.
- Ad. Vinod Kumar Memorial Inter collegiate debating competition is a vibrant activity for collaboration with other academic groups.
- The college maintains interaction with the following institutions for research activities.
 - ❖ Cochin University of Science and Technology
 - ❖ Kerala University
 - ❖ STEK, DST, NBHM
 - ❖ Fisheries Department

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

The Physics, Zoology and English departments are organizing OJTs.

Department of Physics: On Electronic Equipment and Maintenance for B.Sc students

Department of English: On Teaching practice arranged for the Semester V students

An On-the-Job Training programme on Induced Breeding of Fishes, Hatchery and Farm Operation and Maintenance is provided to the students with the help of Department of Fisheries, Govt. of Kerala and also with the help of the local community. Training on ornamental fish hatchery, fish feed manufacture, fish product development, study of fishing vessels etc. are also conducted with the help of the community. The Department gets support from CMFRI, CIFT, MPEDA, NIO and Biodiversity centres such as Mangala vanam, Thattekkad, Thenmala etc.

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

The institution has hosted four national seminars since the last accreditation.

- 1) Title: **Recent Trends in Graph Theory, Fuzzy Mathematics, Mathematical Chemistry and Biology**

Date : 12.8.2009 to 14.8.2009

Organized by: Department of Mathematics, St.Aloysius College, Edathua

Sponsored by : University Grants Commission.

List of eminent scientists/participants who contributed to the events

Sl. No	Name of resource person	Institute
1	Dr. H.S. Ramane	Gogte Institute of Technology, Belgaum
2	Dr. A. Vijayakumar	Cochin University
3	Dr. Achut Sankar S Nair	Centre for Bio- Informatics, University of Kerala
4	Dr. Aparna Lekshmanan	St. Xaviers College, Aluva
5	Dr. Deepak T.G	IIST, Trivandrum
6	Dr. E. Krishnan	University College, Thiruvananthapuram
7	Dr. Jose K P	St. Peters College, Kolencherry
8	Dr. Joseph Mathews	GRAF, University of Kerala
9	Dr.M. Narayanan Nampoothiri	Cochin University
10	Dr. Manju K Menon	St. Pauls College, Kalamasserry
11	Dr. R. Balakrishnan	Bharatidasan University, Tiruchirappally
12	Dr. Sunil T Jacob	NIT, Calicut

2) Title: **Luminescent and Lasing Materials**

Date : 19.9.2011 to 21.9.2011

Organized by: Department of Physics, St.Aloysius College, Edathua

Sponsored by : University Grants Commission.

List of eminent scientists/participants who contributed to the events

Sl. No	Name of resource person	Institute
1	Dr. B. P. Chandra	Former V. C, P.R.S.S University, Chhattisgarh
2	Dr. K. P. Satheesh	Principal, Govt. College, Ambalapuzha
3	Dr. S. Uthanna	S. V. University, Tirupathi
4	Dr. N. V. Unnikrishnan	M.G. University, Kottayam
5	Dr. M. K. Jayaraj	Cochin University, Cochin
6	Dr. C. K. Mahadevan	S. T. Hindu College, Nagercoil
7	Dr. M. Sudharshan	Scientist, UGC DAE – CSR, Calcutta
8	Dr. K. E. Abraham	S. B. College, Changanacherry

3) Title: **Honing Modern Trends and Promotion Of Education In Health Scienses**

Date : 14.12.2011 to 16.12.2011

Organized by: Department of Physical Education, St.Aloysius College, Edathua

Sponsored by : University Grants Commission.

List of eminent scientists/participants who contributed to the events

SI No	Name of resource person	Institute
1	Dr. Vaithainathan K	V.C,T.N.P.E.S University, Chennai
2	Dr. Jose James	Registrar(Rtd), M.G. University, Kottayam
3	Dr. Sathyanarayanan	Osmania University, Hyderabad
4	Dr. Binu Varghese	M.G. University, Kottayam
5	Dr. P.J. Sebastian	SAI, Bangalore
6	Dr. Amritha Sebastian	Bharatidasan University, Tiruchirappally
7	Dr. Jemini Joy	V.I.T Vellore
8	Dr. Anil R	P.K.M. College of Education, Kannur
9	Rev Sr. Dr. Jyothi	Nirmal Hospital, Manimala
10	Dr. Jevancy Mathew	Mar Athanasious Nursing School, Cherppunkal
11	Dr. Sreekumar	Medical College, Alappuzha
12	Sri. Pradeepkumar	SAI, Alappuzha

4) Title: **Emerging Nano Science and its Future in Biology**

Date: 21.9.2012 to 23.9.2012

Organized by: Department of Zoology, St.Aloysius College, Edathua

Sponsored by: University Grants Commission.

List of eminent scientists/participants who contributed to the events.

SI No	Name of resource person	Institute
1	Dr. B. Padmakumar	Govt. Medical College, Alappuzha
2	Dr. K. G. Padmakumar	RARS, Kumarakom
3	Dr. S. B. Syamala	MG College, Trivandrum
4	Dr. R. Harikumar	Energy Technologist, National Energy Mission
5	Dr. K. K. Balachandran	Principal Scientist (Rtd.), CIFT, Cochin
6	Dr. Nandakumar Kalarikkal	MG University, Kottayam
7	Dr. Vidhya Ramaswami	(INCITE), New Delhi.
8	Dr. Sunny Kuriakose	St. Thomas College, Pala
9	Dr. M. R. Anantharaman	Cochin University
10	Dr. C. K. Mahadevan	S. T. Hindu College, Nagercoil
11	Dr. Deepthy Menon	Amrita Centre for Nanosciences, Cochin

3.7.4 How many of the linkages/collaborations have actually resulted in formal MoU and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated –

- a) Curriculum development/enrichment
- b) Internship/ On-the-job training
- c) Faculty exchange and professional development
- d) Research
- e) Consultancy
- f) Extension
- g) Publication
- h) Student Placement
- i) Student exchange
- j) Any other

No formal MOU or agreement was resulted in.

CRITERION IV

INFRASTRUCTURE AND LEARNING PROCESS

4.1 Physical facilities

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

The policy of the management is to provide all possible amenities and infrastructure facilities in tune with its vision and mission, at pace with the modern trends in teaching - learning process. Since the inception of the institution in 1965, the management has been giving top priority to the institution among a galaxy of the institutions owned and run by the management.

The institution is located in an extensive sprawling land area of 29.5 acres, reclaimed from the paddy fields below the mean sea level. Over the years, the college has developed into a first grade institution and in terms of infrastructure facilities, it has grown into a 3-storied building and it houses the refurbished principal's office, general office, all the main stream departments, spacious class rooms, well equipped laboratories and modernized library. The old buildings are made anew, considering the exigency of housing newly sanctioned courses. The institution is proud to have a full fledged spacious main auditorium, accommodating nearly 1500 students. Besides, the institution has also a mini auditorium and a fully air conditioned seminar hall and a smart room beautifully furnished with modernized audio-visual gadgets. There is also a mini conference room, for casual meetings, adjacent to the portico of the main building. The college chapel renovated recently offers facility to students for prayer and faith formation.

The institution, with UGC funding, has constructed a women's hostel which is entrusted to the Congregation of Adoration Sisters for administration. Providing residential facility to women students is of prime concern to the management as it would enhance effective teaching and learning process on campus.

Women's hall renovated with all amenities is entrusted to the welfare of the women community on campus.

An 8 - feet high boundary wall with a state-of-the-art arch at the main entrance fortifies the campus.

Power supply is ensured on campus by installing 4 standby generators of capacities of 2000W, 2500 W, 3500 W and 5000 W.

4.1.2. Details of the facilities available for

a. Curricular and co-curricular activities

There are well furnished 42 class rooms sufficient to accommodate the full strength of students in various streams. A 50- seated air conditioned hall identified as technologically enabled learning space (smart room) provides facilities for LCD presentations and seminars for the PG, inter-disciplinary paper presentations and academic discussions. The air conditioned, ICT facilitated and 125-seated 'Fr Punnapadam Seminar Hall', provides ample space for hosting national / regional seminars, workshops, invited lectures, alumni gatherings, classes by experts from research centres and other agencies for community-oriented programmes.

The mini auditorium accommodating nearly 300 students serves as a venue for the association and other club activities. The spacious main auditorium acts as the hub centre of all the common activities meant for the entire college community.

Well furnished and sophisticated laboratories for Physics, Chemistry, Aquaculture and EEM, cater to the scientific and experimental activities of the streams concerned. To bring in the fullness of practical work, there is an inter-disciplinary collaboration among the science streams. The Computer Lab with 25 computers is specially meant for B.Com Computer students and the lab with 6 computers is meant for B.Sc EEM students. The Research Lab, established and managed by the department of physics, creates a research culture among the students within and outside.

The Department rooms are well furnished with all necessary amenities. There are 6 LCDs and 3 OHPs accessible to the faculty members.

The Library has ample space to accommodate 100 students at a time and sufficient number of volumes, periodicals and journals. The automated Library operating on SOUL software is now decided to be switched over to KOHA for better management. The UGC Net Resource Centre, an annexe of the Library has 8 computers with LAN facility.

The counselling centre functions in a well furnished room, next to the mini conference hall, with necessary fixtures and utilizes the services of visiting professional counsellors as well as of qualified faculty members, for soothing emotional problems and better formation and perfection in mental health.

The public announcement system with speakers in all the class rooms and veranda helps speedy communication of instructions and directions. The institution provides Xerox facility at subsidized rate to the students, in the library, photocopier room and in the co-operative society. It is highly beneficial to the student community for carrying out their learning activities.

Two Telescopes, (refractive and reflecting) installed by the Department of Physics offers Star Watching facility to the students of the college and nearby institutions. The Wind Mill provides first hand information regarding

the tapping of non-conventional wind energy source and supplements the conventional energy resources.

The Department of Mathematics offers computational facility with the help of MATLAB and MATHMATICA in the newly installed lab on the third floor with 12 computers and net facility. Uninterrupted power supply is ensured by installing a 1KW UPS.

The Department of Chemistry runs a Soil and Water Testing Lab equipped with Flame Photometer, Colouri meter, pH meter and Conductivity meter attached to the Chemistry laboratory.

The Department of English operates an English Language Lab which is furnished with computer terminals, multimedia computers, TV and audio system to practise correct pronunciation of English language. The Department owns a media room also for exhibiting world classics and Oscar Award winning films, for the benefit of the faculty and students with literary flavour.

The Department of Zoology nurtures a variety of endangered species of herbal plants, a botanical garden, a butterfly garden and fish breeding centre. Zoological Specimen Museum displays a large number of invertebrate, sea weeds, mollusc, reptiles, amphibians etc. There is a microbiology and equipment lab for doing microbiological analysis, associated with the Department of Zoology.

An Electronic Workshop room adjacent to the Department of EEM, with sufficient number of power supply points and necessary apparatus and equipment, help the students of EEM to carry out the repairing and overhauling of equipment, provides facilities for hardware maintenance of computers, mobile phones and emergency lamps.

The Department of Commerce is a recognized research centre by the Mahatma Gandhi University and provides facilities for the scholars.

A study centre on Kuttanad undertakes studies on issues confronting Kuttanad and collects relevant documents and literature on Kuttanad. A separate reference section is maintained in the college library for studies on Kuttanad.

Kuttanad Heritage and Cultural Museum is under renovation with the financial support of the Government of India through M.P Fund sanctioned by Prof. P.J. Kurian, the Hon'ble Deputy Chairman of Rajyasabha.

b. Extra Curricular activities.

The college has a spacious play ground with a-400-metre track and courts for various games like football, Cricket, volley ball, badminton, basket ball, hand ball, hockey and lawn tennis. The institution makes use of the nearby water bodies and has produced a number of national and international champions in aquatics. The college provides a gymnasium and taekwonda training centre to the students.

The National Service Scheme, Bhoomithra sena and the National Cadet Corps, both naval and army have separate office rooms and store rooms with sufficient shelves to stock their kit, tools, implements and other training materials.

The institution provides all possible facilities and platforms for honing their artistic and literary talents. All the multimedia facilities, accommodation and refreshments are provided for the optimum performance.

Yoga and health club activities are practised in the women's hall. Awareness on cleanliness and proper decorum is provided by keeping waste baskets separately for perishables and plastics at proper locations. Thanalkoottam, which inculcates a spirit of eco- friendly and environmental fervor, assembles beneath the banyan tree on the concrete benches built around it. The network of water bodies around the college campus is effectively utilized for practising water sports .The innate spirit of water-sporting in our students, particularly boat-racing (snake boats and country-boats), is promoted and materialized by providing opportunities to participate in prestigious competitions such as 'Nehru Trophy' and 'Moolam' Boat Races by hiring snake boats on many occasions. Our students visited the world famous 'Kishkinda' water theme park, participated in demo boat racing and won several prizes for three years consecutively.

4.1.3. How does the institution plan and ensure that the available infra structure is in line with its academic growth and is optimally utilized? Give specific examples of the facility developed/augmented and the amount spent during the last four years (Enclose the master plan of the institutions / Campus indicate the existing physical infrastructure and the future planned expansions if any)

The management has always been very keen to provide ample infrastructure facilities from time to time for the smooth running of the institution. As of now, all the existing programmes are run in spacious class rooms. The policy of the institution is to make optimal use of all the available space in line with the academic growth. The renovation of the old blocks to include the classes for B.Sc. EEM and B.Com. Computer, M.A. English and media room, UGC aided women's hall with modern amenities, canteen with separate dining halls for staff, boys and girls, spacious co-operative store, two large rooms ear-marked for the proposed Kuttanad Heritage and Cultural Museum and the newly renovated chapel are vivid examples of the management's resoluteness to utilize the existing infrastructure constructively. The top floor of the main building is set apart for the offices of various ABC clubs, ASCK and Computational Lab. The roofed terrace is proposed for the examination hall and class rooms for UGC sponsored courses. The enclosed space beneath the mini auditorium stage, previously a subway, is now used as the college godown. The PTA has installed a tank of 100000 litres capacity for rain water storage. The unused land lying in proximity to the college campus has been effectively reclaimed and utilized for the construction of a women's hostel with UGC funding.

The management of the college wholeheartedly permits to use the college play ground for conducting district level school sports meet organized by the District Educational Office (DEO) and sports and Games held under the auspices of the local bodies—Grama Panchayat and Block Panchayat. Besides, the college ground is a parking ground for the vehicles of the pilgrims of St. George Forane Church and Chakkulathukavu Sree Bhagawathy Temple. It clearly reflects the secularistic view of the institution.

The University has opted the college as a centre for Distance Education and the management as well as the institution has been generous to arrange the facilities by renovating the old canteen building, and demarcated the premises with boundary wall, separate entrance and parking area. The college has been the distribution, collection and counting centre for elections to local bodies, Assembly and Parliament.

As part of the Golden Jubilee celebration, the institution intends to build a Jubilee Memorial Block for research and advanced studies with financial assistance from the UGC and Management. Projects are also submitted to the UGC for an indoor court, a swimming pool, a new Library building and staff quarters.

4.1.4 Does the institution ensure that the infra structure facilities meet the requirements of students with physical disabilities?

The institution is prepared to provide adequate facilities to the students with physical disabilities.

4.1.5. Give details of the residential facility and various provisions available within them:

Accommodation facilities are provided for girl students in the 50-bedded women's hostel with amenities like visitors' room, perpetual adoration hall, recreation hall, reading room, TV, DVD, dining hall, kitchen, toilets, washing area, space for drying clothes, indoor court, arrayed with beautiful and variegated plants contemplated for holding various functions in the hostel, rain water harvesting, biogas plant, Internet, telephone and medical emergency facility. Security is posted round the clock at the main entrance and hostel, with an outhouse facility. The hostel is surrounded by a strong high boundary wall with a barbed wire fencing.

Home stay facility is provided for the boys as paying guests in the houses located in the Aloysian Neighbourhood.

4.1.6. What are the provisions made available to students and staff in terms of health care on the campus and off campus.

There is a yoga and health centre for girl students and gymnasium for the boys. A faculty member who is a qualified yoga trainer conducts yoga training for the girl students. The gymnasium for the faculty and students is operated under the supervision of the Department of Physical Education. The counselling centre ensures facilities for the mental and emotional health of the students.

The institution provides clean and purified drinking water, chalk dust-free and well ventilated class rooms. Adequate first aid facilities are available on

campus. There are 3 hospitals within the radius of 1km from the college, two of them are under the management of the college. PHC under the government is also accessible.

4.1.7. Give details of the common facilities available on the campus – space for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counselling and Career Guidance, Placement Unit, Health centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium etc,

Well furnished room with computer and net facility are provided for IQAC. Women’s hall with facilities like drinking water, refrigerator, bed, toilets, yoga centre and health centre are offered for girl students. A separate room with adequate privacy is provided for student counselling. The canteen has separate dining halls for the staff, boys, and girls. Ample office space is provided for various clubs and forums under the ABC umbrella on the 3rd floor. The Career guidance and placement cell has a separate room with computers on the top floor, where journals, periodicals, employment news and placement details of various firms are displayed. Examination hall and recreation space are proposed to be on the roofed terrace. The institution gives priority for providing clean drinking water purified through the Reverse Osmosis (RO) system. Rain water harvesting has been our prime concern and a water tank with 100000 litre capacity is installed and the institution plans to supply water to the neighbourhood under ‘the community water supply scheme’. The main auditorium has a seating capacity of around 1500 students and all the main functions of the college are conducted here. In the mini auditorium association meetings, ABC clubs’ meeting and department-wise meetings are held. In the Fr. Punnappadom Seminar Hall, programmes like national / regional seminars, orientation programmes and workshops are held.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory committee Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

As per the government order 169/94 our library has an advisory committee consisting of 8 members - the Principal (Chairman), the Librarian (Secretary), five faculty members from various departments and one student representative. The committee meets twice a semester. The following measures for the smooth functioning of the library are taken – rescheduling of the working hours of the library from 9 AM to 5 PM, (against the earlier timings of 9.30 AM - 4.30 P M), permitting the students to avail themselves of library facilities as and when they are free, photocopying from the reference materials, allowing the PG students to borrow seven reference books and UG students to borrow 3 books at a time and displaying current journals and periodicals in their chronological order. The librarian collects the feedback at the end of each semester and the suggestions of the students are discussed in the advisory committee meeting and are implemented to the extent possible. The career notice, job announcement and newspaper clippings are also displayed in the library. There are 8 computers connected with a server and 7 LAN. INFLIBNET facility gives the students net-searching and e-reading of books and journals. The funds for library

purchases are sanctioned as per the guidelines and the decisions of the UGC fund utilization committee, after ascertaining the requirements of various departments and the proposal of the library advisory committee.

4.2.2 Provide details of the following:

The total carpet area of the central library is 3374 Sq.ft. with a seating capacity of 100 students. For the optimum utilization of the library, the available space is divided into different sections namely stack-cum-reading (2128 sq.ft.), reference, journals and career magazines (224sq.ft), news magazines, circulation, display, and administration (728 sq.ft) and e-library (294 sq.ft).

Working hours

The normal working hours of the library is from 9 AM to 5 PM without any break. On Saturdays (except second Saturday) it functions from 10 AM to 4 PM.

Layout of the library

The total layout area of the library is 170 sq.mts. The functioning of the library is made effective by dividing the available space into different sections. Net Resource Centre with 8 computers, connected by LAN, for e-reading is annexed to the library. Separate cubicles have been erected for the Librarian and staff for the proper administration and functioning of the library. There is a back-up portion for stacking old volumes and periodicals.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials Specify the amount spent on procuring new books, journal and e-resources during the last four years?

The departments give their requirements and specified areas for the purchase of titles and on the decision of the library committee, quotations are invited from publishers/distributors for the supply of the books.

Table 4.1 Amount spent on purchasing new books/journals/ref. books

Library Holding	Year (2009-10)		Year (2010-11)		Year (2011-12)		Year (2012-13)	
	No. of Books	Total Cost						
Text Books	767	25573	651	313440	885	340586	258	102724
Reference Books	29	36515	283	77156	187	71005	69	31719
Journals	18	16880	17	14850	18	16245	10	10860
Periodicals	26	6878	26	7176	26	5481	26	10596

4.2.4 Provide details of the ICT and other tools deployed to provide maximum access to the library collection?

Support facilities like computer, internet and reprographic facilities are available in the library. It offers various services of INFLIBNET and is registered under the UGC-N List programme and can access more than 3000 electronic journals, 7000 electronic books and bibliographic data base called MathSciNet containing more than two million reviews of research articles in mathematics. Integrated library software ‘Software for University Libraries (SOUL)’ has been introduced with bar code facility and digitalization of the bibliographic details and complete automation of library activities. It is proposed to switch over to KOHA – Integrated Library Management System (ILMS). OPAC (Online Public Access Catalogue) is provided. Various other facilities arranged in the library are Electronic Resource Management Package, E-Journals, federated searching tools to search articles in multiple databases, in-house/remote access to e-publication and participation in resource sharing networks/consortia. The library deploys tools like computers for public access, printers, scanner and internet band width / speed and library website.

4.2.5 Provide details on the following:

Average Number of walk-ins	200
Average number of books issued/returned	110
Ratio of library books to ratio of students enrolled	30:1
Average number of books added during last 3 years	651 / 855/258
Average number of login to OPAC	60
Average number of login to e-resources	38
Average number of e-resources downloaded/ printed	27
Number of information literacy training organized	2 per semester
Details of ‘weeding out’ of books and other materials	90

4.2.6 Give details of the specialized services provided by the library

The spacious and centrally located library affords easy access to the students and staff. The library has more than 25000 titles, 23 academic journals and 32 periodicals. It forms one of the chief resources for teaching-learning process. The automation of the library and INFLIBNET, N-List, internet and reprographic facilities make the library user-friendly. The functioning hours of the library suit the students and the faculty as well. The classification system used is Dewey Decimal Classification (DDC) and the library follows the Anglo American Cataloging Rules (AACR-II). A computerized catalog and database of books using SOUL (designed and developed by Information and Library network (INFLIBNET) centre (An IUC of UGC) software has been developed and is now available for browsing. Internet and E-mail services can be made use of by students and staff of the college. Latest titles, journals, reports are added and the same are displayed for the attention of both students and faculty. The reference section has been expanded with new arrivals, especially books that will help the students for preparing for various competitive examinations.

Career notice and job announcements are also displayed. The library had an inter-library borrowing facility with the British Council Library, Trivandrum in the previous years. The facility now does not exist. The visually and physically challenged students are given personal attention by the library staff and their demands are satisfied. The library has also a collection of manuscript magazines, folklore and literature relating to Kuttanad. The staffs help the students to locate required titles, borrow or refer the books and get photocopies of pages needed from a book. The library also offers consultancy services for development of libraries of the area and some of the recent beneficiaries are Edathua Grama Panchayat and Georgian Residential School Edathua.

To imbibe the changes that occur in the library scenario world over, the institution has decided to modernise the digital library by installing D Space digital library software which has many sophisticated advantages.

The library has begun a news paper clipping service to highlight the information of academic importance from the regional and national dailies.

4.2.7 Enumerate on the support provided by the library staff to the students and teachers of the college.

The collections in the library have been arranged according to the SOUL system. The library staff ensures strict discipline in the library, gives necessary instructions regarding the rules and regulations, code of conduct, familiarizes the freshers with all the facilities available and promotes the optimal use of the resources. The staff gives wholehearted support in locating the required volumes and provides assistance in availing the INFLIBNET facilities. The new arrivals are properly acknowledged and back volumes are properly maintained and secured. The library assistant does a commendable service by doing the photocopying work in addition to his normal duties.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

The library staff gives prioritized attention to the physically or visually challenged students by searching and locating the books required.

4.2.9 Does the library get its feedback from its users? If yes, how is it analyzed and used for improving the library services?

A register is maintained in the library to record the Feedback / suggestions from the stakeholders. Apart from this, the Principal also collects feedback and takes all possible measures to improve the working status of the library.

4.3 I T Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the institute Number of computers with Configuration (provide actual number with exact configuration of each available system)

Table 4.2 – Computing facility

Sl. No.	Item	Specifications	Number
1	Computer	Intel Pentium Dual Core (Processor) with 4/2/1 GB RAM	60
2	Laptop	Acer4738z,500 GB HDD, 4GB RAM	2
3	LCD Projector	Sanyo PLC- XD, XGA 2200 Ansi Lumens	7
4	Fax Machine	Sharp FO-51	1
5	Xerox Machine	Sharp AR -5520D - Duplex	4
6	Printer	Laser Printer Canon LBP 29000	11
7	Scanner	Cannon 1100	3
8	Digital Visualizer		1
9	UPS	APC 1 KVA + 500 VA	16
10	Interactive Board	Hittachi FX-77”	2
11	OHP	Liberty Vision - 285	3

Computer Student Ratio : 1:17

4.3.2 Details on the computer and internet facility made available to the faculty and students on the campus and off campus

Students and faculty access computer and internet in the various departments, net resource centre and the library. INFLIBNET is also made available in the library. The net resources centre has eight computers with LAN facility and the computer lab has 25 computers. The departments are provided with net connectivity, LCD projectors and printers. The library has INFLIBNET N-List subscription which helps e-reading of volumes inside and outside the campus.

4.3.3 What are the Institutional Plans and Strategies for deploying and upgrading the IT infrastructures and associated facilities?

Computer knowledge is a pre-requisite in the recently introduced CBCSS and curriculum which have been implemented in the Mahatma Gandhi University. Majority of the students who secure admission in recent years have proper working knowledge in computer operations. At the entry level an assessment is conducted regarding computer knowledge and those found lacking sufficient computer knowledge are identified and steps are taken to motivate them to acquire enough computer practice of their own. The institution organised three-day workshops on ‘informatics both for students and faculty. The college offers two computers based undergraduate programmes viz., B.Com Computer and B.Sc. EEM. A computer lab functions in the college for the benefit of the said courses. The Smart room with all ICT facilities is already functioning in the college. Undergraduate programmes stipulate some of the experiments to use

spreadsheet for doing calculations and preparing charts and graphs. Computers are made available in all the departments which can be accessed by students for doing their practical works.

Every year steps are taken to upgrade the Infrastructure and associated facilities on the recommendation of IQAC. Besides the UGC fund, the management mobilizes its possible resources and provides adequate fund and technical assistance for the development and up gradation of the ICT.

4.3.4. Provide details on the provisions made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (year wise for last four years)

The procurement of computers and accessories is done with the financial assistance from the UGC. The management provides a grant for the maintenance of these gadgets.

4.3.5. How does the institution facilitate extensive use of ICT resources including development and use of computer –aided teaching/learning materials by its staff and students?

The faculty members prepare teaching and learning material by using ICT. Question papers for the continuous evaluation and internal examinations are prepared and printed making use of the computer facility available in the respective departments by the faculty themselves. The grading works are also done likewise. The computer and LCD facility is also made available to the students for the presentation of papers, seminars and projects. The smart rooms with all the modern IT gadgets enrich the curricular activities. Key-lectures and classes, difficult and intricate portions of the syllabi are made learner-friendly through LCD presentations in the smart room. Research papers of research fraternity are also presented in the smart room. Paper presentations, seminars are also carried out in the class rooms with the help of LCD projectors.

4.3.6. Elaborate giving suitable examples on how the learning activates and technologies deployed (access to on- line teaching–learning resources, independent learning, OICT enabled classrooms/learning spaces etc) by the institution place the student at the centre of teaching -learning process and render the role of a facilitator for the teacher.

Access to the computer and the internet promotes independent learning whereby students come at the centre of the teaching- learning process. The faculty, by assigning projects, seminars and assignments, act as a facilitator and guide the students in these independent tasks. The seminar papers and the latest trends in the different disciplines are identified by the students themselves using the net facilities. All the supportive learning materials are also accessed online and the faculty renders adequate support to the students in this regard. The INFLIBNET facility in the library enables the students to get through necessary learning resources. The advanced learners entrusted with projects on advanced topics surge ahead in their fields of interest with the help of ICT facilities. Project works are also undertaken with the help of the said facilities in the college and presentations are made making use of all the ICT facilities.

4.3.7. Does the institution avail of the National Knowledge network connectivity directly or through the affiliating university? If so, what are the services availed of?

The institution avails itself of the internet facility the BSNL for the speedy access and utilization of the web resources. The INFLIBNET – knowledge at finger tip is also made available at the library for easy access of e-learning materials which include more than 6000 e-books and over 10000 e-journals. The academic community can use the same from their home terminal using the username and password supplied with.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

The institution utilizes all the available resources from the UGC, University and the Management.

Table 4.3 Receipts and Expenditure Statement for the year 2012 - 2013

Receipts		Expenditure	
Fees in Rs			
Tuition Fee	703351	Tuition Fee	703351
Registration Fees	12250	Registration Fees	12250
Special fees	72600	Special fees	72600
Salary from of staff	45291928	Salary from of staff	45291928
Allowances			
Honorarium	27260	Honorarium	27260
Refreshment charges	48780	Refreshment charges	48780
Scholarships from Govt.	1323134	Scholarships from Govt.	1156047
UGC Assistance XI plan	4204675	UGC Assistance XI plan	4962440
Receipts from Management		Expenses for Management	
Maintenance	3764135	Maintenance	3764135
Contingency		Contingency	
Miscellaneous Receipts and expenses			
Exam Fee	903053	Examination fees	903053
Caution money	107160	Caution money	
Educational concession – KPCR	454009	Edn. Concession disbursed (KPCR)	441060
Special fees	1294227	Special fees and Caution balance	728064
		Undisbursed amount	41867
		Total	58152835
		Cash in hand	53727
Total	58206562	Total	58206562

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

The purchasing committee monitors all the construction, maintenance works and purchase of equipments. The requirements in various departments are invited and after discussion the committee forwards its proposals to the funding agencies for the necessary facilities – academic, administrative and infrastructure. As funds are received, the construction as well as maintenance work is carried out. Minor maintenance and calibration works are undertaken at the department level and payments are made through the College Office. At times the Department of Electronics and Equipment Maintenance extends its help in overhauling / repairing of electronic equipment to meet exigencies. The institution has appointed an electrician against the newly sanctioned post and he repairs and services all the minor electrical gadgets in the college timely. Plumbing and other electrical repairing works are also done promptly. The management has also appointed a lady for the proper up keeping of the premises and cleaning of toilets and wash-basins. An Annual Maintenance Contract (AMC) is executed by the college and the suppliers of Xerox machines and other devices. The college play ground turns muddy during the monsoon season and heavy flood devastates it. The same is raised and levelled with gravel by the management every year.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

The institution calibrates its necessary gadgets regularly. Precision measures for all sensitive equipment are systematically carried out for better performance once a year. The Heads of the departments and faculty members in charge of the laboratories, language lab, media room, IT lab provide an annual report on the state of the sensitive equipments to the authorities regarding the performance of the equipment.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

The institution gives utmost attention to keep the sensitive equipments at safe locations in separate rooms for safety as well as for their smooth functioning. The building and the premises are protected from lightning by lightning arresters fixed on the roof of the main building. The motors, generators, UPS, are serviced regularly. The bore well ensures supply of water through out the working hours and the reverse osmosis purifier system provides purified drinking water to the college community. The one lakh litre capacity rain water storage assures the supply of drinking water. The standby generators are also well maintained and in use. A full time mechanic is appointed for proper maintenance.

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

A smooth power supply is maintained by means of 16 UPS and 4 generators. A rainwater harvesting tank of 100000 litre capacity serves the drinking water needs of the entire college community. The four RO plants ensure the purity of the drinking water.

CRITERION V

STUDENT SUPPORT AND PROGRESSION

5.1 STUDENT SUPPORT

5.1.1 **Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?**

The College publishes its updated prospectus and hand book at the beginning of every academic year. The hand book provides a comprehensive picture of the college and contains sufficient information to prospective students regarding; the profile of the college, management, vision and mission, aims and objectives, landmarks, governing body, staff council, quality advisory committee, IQAC, regular and guest lecturers, library and non-teaching staff and the various clubs and forums that come under 'Aloysian Beyond the Curriculum' (ABC). Besides, it highlights details of the courses offered at the UG and PG level with regular, self financing and distance mode categorization, open courses offered in CBCSS Programme, Ph.D programme and certificate courses available, detailed admission procedure, grading system and the minimum requirements at the entry level. It showcases briefly the curricular, extracurricular and extension programmes, college rules, students' parliament and union executive, tutorial system, guidance, mentoring and counselling offered to the stakeholders. College rules regarding general discipline, ethics and etiquettes, mobile phone, attendance, library and study tour are enlisted in detail to ensure strict discipline on campus. A verbatim description of the directives of The Hon'ble Supreme Court of India and the Government of Kerala regarding the Ragging Preventive Act 1998 are also included for the awareness of the students and parents. Details of anti-ragging committee and anti-ragging squad which emphasize our commitment to ensure a ragging free campus, are also included. The hand book culminates with a detailed description of the Govt., University and Institutional level endowments and scholarships and other student support services provided by the college. There is a well defined academic calendar which provides concise but thorough information about the important events anticipated in the academic year.

As an educational institution the college has rendered 49 years of service in the field of higher education in a rural area and is on the verge of its golden jubilee in 2015. Looking back on its early teething troubles, the institution is proud to be a full-fledged first grade college and got re-accredited at B⁺ grade by NAAC in 2007 and is all prepared to show its grit for its re-accreditation in 2014 for a third time. Located in a rural area, with its inherent limitations, the college puts in more commitment and professionalism to fulfil the dreams of the stakeholders. The College has always been in the forefront to assimilate the best practices in the field of teaching with a view to materializing its vision and

mission. We have our proud alumni rendering valuable services in almost all parts of the globe and act as worthy persons true to the benchmarking as envisaged by the institution.

5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The college is committed to recognizing the meritorious students in their studies. The retired faculty members, the well wishers of the college, families of late faculty members and the parent teacher association have instituted cash prizes, endowments and scholarships. There are 62 such scholarships (2012 – 13), distributed annually on the college day to the students who excel in their studies.

Table 5.1 - Scholarships, cash prizes and endowments:-

Sl. No	Type	Number of Scholarship	Amount
1	Cash prizes	13	6750/-
2	Endowments	27	21250/-
3	Scholarships	11	5100/-
4	Proficiency prize	11	2750/-
TOTAL		62	35850/-

Considering the social and economical backwardness of the region, free ships are granted especially to the students who are admitted in the self financing programmes, as per the table below:-

Table 5.2 – Free ships

Sl. No	Programme	Strength			Govt. Fixed Fees	Fees collected	Free ships granted to each student
		1st year	2nd year	3rd year			
1	B.Com Computer	52	51	35	11250.00	9000.00	2250.00
2	B.Sc EEM	22	27	21	11250.00	9000.00	2250.00
3	M.A English	6	12	-	18750.00	17500.00	1250.00
4	M.Sc Zoology	11	-	-	22500.00	20000.00	2500.00

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

SC/ST students avail themselves of e-grants viz. tuition fee, exam fee, special fee, monthly stipends, lump sum grant, study tour allowance, conveyance allowance, special stipend and fishermen stipend. The OEC and OBC students are also eligible to avail the same. Economically backward general category

students (income below Rs. 25,000/-) avail KPCR fee concession, conveyance allowance and special stipend.

About 68% of the students received financial assistance from various agencies. Percentage of financial assistance distributed during the last four academic years is given below.

Table 5.3 – Financial Assistance Provided

Sl. No	Category	2008-09		2009-10		2010-11		2011-12		2012-13	
		No. of Students	%	No. of Students	%						
1	SC/ST	94	10.8	107	11.6	99	11.8	100	10.4	104	9.7
2	OEC	84	9.7	87	9.4	82	9.8	98	10.2	97	9
3	OBC	64	7.3	83	9	96	11.4	76	7.9	83	7.8
4	General KPCR	257	29	262	28.4	272	32.5	255	23.4	194	18.2
5	Fishermen	24	2.7	32	3.4	32	3.8	36	3.7	-	
6	Single Girl Child					-		-		-	
7	Kerala Higher Edn.							Nil		2	.1
8	Suvarna Jubilee Merit					17	2	1	0.1	3	0.2
9	Muslim Girls					1	0.1	4	0.4	3	0.2
10	Blind/Physically Challenged					1	0.1	1	0.1	1	.09
11	Post Metric					10	1	51	5.24	39	3.6
12	Conveyance					100	10	100	10.48		
13	Tour Allowance							35	3.6	22	2.05

5.1.4 What are the specific support services/facilities available for?

1. Students from SC/ST, OBC and economically weaker sections
2. Students with physical disabilities
3. Overseas students
4. Students to participate in various competitions/National and International
5. Medical assistance to students: health centre, health insurance etc.
6. Organizing coaching classes for competitive exams
7. Skill development (spoken English, computer literacy, etc.,)
8. Support for “slow-learners”
9. Exposures of students to other institution of higher learning/ corporate/ business house etc.
10. Publication of student magazines

20% of seats are reserved for SC/ST in each UG & PG programme. These students are exempted from paying tuition fee, exam fee, special fee and avail

of stipend, conveyance allowances and study tour allowance. The institution provides hostel accommodation for girl students. It provides special coaching for union, state and bank competitive examinations and remedial coaching to all the students belonging to these sections.

Economically weaker sections avail themselves of KPCR fee concession, conveyance allowance and special allowance. The institution so far has distributed an amount of Rs. 680000/- under UGC Grant as stipend and allowance (XI Plan) ($5000 \times 80 = 4,00,000 + 1400 \times 200 = 2,80,000$.) The institution supports them with PTA welfare fund, Vincent de Paul society fund, Principal's poor fund, Staff personal fund, Alumni fund and department funds raised from time to time as need arises.

Differently-abled students get 1% reservation in all UG programmes. The institution provides scribes for blind students in all university examinations as per university norms. There are no overseas students so far on the rolls.

Students who participate in various competitions receive funding from PD Fund, Principal's fund/Department fund.

Table 5.4 – TA/DA to students who have participated in sports and games

YEAR	NO. OF STUDENTS	AMOUNT IN RS.
2012 – 2013	161	38125/-
2011 – 2012	109	20750/-
2010 – 2011	83	13550/-
2009 – 2010	74	8500/-
2008 – 2009	71	10100/-

Table 5.5 – TA/DA to students who have participated in intercollegiate competitions / camps / seminars.

Year	NO. OF STUDENTS	AMOUNT IN RS.
2012 – 2013	24	3910/-
2011 – 2012	56	5255/-

The institution extends a helping hand for medical care and provides treatment expenses for students as and when the situation arises. Fund is collected from the staff and students. The following table gives the amount utilized under this head for the last four years.

Table 5.6 – Treatment expenses provided to students

Year	Number of students benefitted	Amount utilized in Rs.
2012 – 2013	1	36,000/-
2011 – 2012	5	1,26,000/-
2010 – 2011	5	10,300/-
2009 – 2010	6	54,200/-
2008 – 2009	8	4,700/-

The college community has contributed Rs.15000/- for reconstructing one of our students's ruined house.

The College arranges coaching classes for UPSC, PSC and Bank tests, SET and NET coaching. Three faculty members are in charge of organizing coaching classes. The college has a one month skill development and finishing school programme by a team headed by Smt. Lovely Salim, Institute of Spoken English, Changanacherry. B.Sc. Zoology, B.A English, B. Sc. Physics - EEM students undergo OJT training during their second and final years as part of skill development. The institution imparts and promotes computer literacy by providing the students with computer facility in the common computer lab, net facility in all the departments, UGC net resource centre and inflibnet in the library. PGDCA certificate course is conducted. 'Career fit 365', a skill development programme for the Sky Up members and happy home making by the Aloysian Creative Unit inculcates various skills in the students.

Slow-learners are identified and to bring them up to the average level, remedial coaching, peer teaching, peer group learning and holiday classes are conducted.

Students of our college from the Departments of Zoology and EEM visit other colleges, institutes, research laboratories, marine centres and industries for project and higher learning. All the departments conduct study tour every year during which they visit factories, research institutes and management institutes.

As part of acquiring academic excellence , a considerable number of students have participated in various seminars and visited marine centres, industrial houses and research centres during the last four years.(Details are exhibited under 3.6.7)

As a part of publishing and popularizing the inborn talent of students, each department takes initiatives to release a Manuscript magazine annually.

Table 5.7 – Manuscript Magazines

Department	Year and name of the magazines		
	2008 – 09	2009 – 10	2010 – 11
English	Scenario	Ormakkayi	-
Physics	Rhythm	Eclipse 2010	Rithu 2011
Chemistry	Chemflash	-	Vipanchika
Mathematics	Mazhathullikal	Gaganam	Anantham
Economics	Innovation	Angane Kuyilum Oru Koodundakki	Parayan baaki vachathu
Commerce	Mayookham	Aksharam	-
Zoology	Vasantham	-	-

College magazines are also published annually.

Table 5.8 - College magazines published during the last five academic years

Year	Name of the Magazine	Student Editor
2012-13	Fantasia	Ganesh P. Nair
2011-12	Venture	Dipuraj A.R.
2010-11	Ad Astra	Jithin John
2009-10	Vintage	Martin T Kalangara
2008-09	Annals	Roopesh T Haridas

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The institution is very particular in developing the entrepreneurial skills among the students by organizing orientation talks by eminent industrialists and business magnets, visits to industries and business enterprises under the auspices of the Aloysian entrepreneurship development club and the Department of Commerce. The Department of Zoology, as part of their curriculum training, arranges visits to fishing harbours and marine centres in South India, centres of ornamental fish farms, hatcheries and aquariums. Many of our alumni are now engaged in fish farming (both ornamental and edible) and other enterprising fields like leather industries, tourism (resorts and house boats), bio-farming and small industries. It is noteworthy to mention here that majority of the flourishing businessmen in and around Kuttanad are proud alumni of our institution.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

- * **Additional academic support, flexibility in examinations**
- * **Special dietary requirements, sports uniform and materials**
- * **Any other**

The institution is situated in Kuttanad - a region acclaimed for its rich heritage, culture, varied forms of folk arts and folklore. As such our students are gifted and we consider it our bounden duty to promote their innate talents and provide ample opportunities and exposure. The institution takes all possible steps to create an atmosphere conducive to improving their skills. The policies and strategies are translated into reality by organizing talents day programme by each department, two-day arts festival, quiz, elocution, debate and literary competitions. The college hosts A. D Sheroff inter collegiate elocution competition. The All Kerala Adv. Vinod Kumar Memorial debate competition, Prof. Sebastian Joseph Memorial Inter-collegiate debate competition and lectures by eminent luminaries from different fields. Literary competitions are also conducted by the oriental department of the college, Sky Up and NSS. We equip and send our talented students for University Youth festival and other intercollegiate competitions every year. They have brought many laurels to the

college. Majority of our students being girls, the women's forum of the college conducts competitions in home making, ornamental designing and cookery as part of women's day celebrations. We have two units of Army and Naval NCC with an enrolled strength of 210 cadets. Apart from institutional training, the cadets participate in a number of nationally organized camps and adventurous activities. It needs special mentioning that a number of cadets have been motivated to join and serve the armed forces, paramilitary and police force.

The Department of Physical Education is very vibrant through its multifarious activities aimed at the sound physique and mental health of students. The department by its consistent and concerted efforts has achieved an enviable position in the university ranking. The aquatic team is invariably placed in the first or runner up position in the university aquatic championship. The college hosts intercollegiate foot ball tournament, university level base ball, cricket and taekwonda competitions. Our foot ball, basket ball and hockey teams represent the institution in various inter-collegiate and inter-university competitions.

The college has a trained yoga practitioner in the faculty who renders selfless service by conducting yoga classes for the girl students. To compensate for the classes missed by the students who are sent for competitions, special classes, peer group interactions and flexibility in internal examinations are encouraged. Duty leave is granted to all the participants. TA, refreshments, sports equipment and college jersey are provided by the college. The college arranges various forums and arenas for soft skill development and personality development. Career development and placement cell, finishing school, extension programmes, group dynamics and open discussions are worth mentioning.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIRNET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.

The college has a coaching centre commenced in 2011-12 which concentrates on UGC-NET, PSC, UPSC and Bank coaching. Dr. Josy Das, Fathima College Management Studies, Changanacherry conducted the coaching classes for UPSC and PSC and Pearson Education Services Pvt. Ltd led the classes for Bank coaching.

Table 5.9 – Student's statistics in UPSC / PSC / Bank coaching and UGC – CSIR NET examinations.

Sl. No	Competitive Exam	2011 - 2012		2012 - 2013	
		No. of Students Attended	Appeared	No. of Students Attended	Appeared
1	UPSC/PSC	65	40	53	28
2	Bank	50	22	46	10
3	UGC – CSIR NET	30	24	46	32

The career guidance cell functioning in the college offers proper guidance regarding the various avenues and vistas of innumerable career opportunities. In addition we provide large volumes of career related journals, employment news and publications.

5.1.8 What type of counselling services are made available to the students (academic, personal, career, psycho-social etc.)

The college considers each and every student equal and strives for the wholesome development of their personalities by giving individual attention through qualified and professional counsellors. We invite university level resource persons for general academic counselling on matters relating to CBCSS, subject familiarization and acquainting certain tidbits for effective learning at the entry level by the respective departments. An entry level test is conducted for identifying slow-learners and proper personal counselling is provided by the teacher in charge/mentor to prevent lagging in their studies. PTA forum provides an effective platform for mutual interaction between teachers, parents and students. The institution has a commendable mentoring mechanism wherein a particular teacher is in charge of 20 students. The mentor in charge fathoms the personal and family background of the students and takes all possible measures to sharpen their personal and intellectual skills.

Students with psycho-social problems are identified by the teacher concerned and direct them to a team of expert counsellors comprising of Rev. Fr. Sunny Mathew, Smt. Gracelal, Dr. Kuriachan George and Smt. Mariamma C.A. The counselling team, through their timely intervention could save many a student on the verge of emotional breakdown, from wrong steps and traps and guiding them to safe havens.

5.1.9. Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

The college has a permanent career guidance and placement cell managed by three faculty members who are instrumental in imparting proper guidance to the students, particularly to the final year UG and PG students. Regular coaching is given to the final year students by invited resource persons from outside the campus. Special coaching is given for PSC, UPSC, NET and Bank Tests during the month of May. 'Finishing School' is conducted for the outgoing UG students successfully with the help of an expert agency. On September 18, 2011 a campus interview was conducted by 'HLB Hant', a multinational accountant firm in Dubai. Twenty six students participated in the interview and one student got placement. Up to date information on job opportunities is provided to the students by organizing seminars, workshops and displaying print materials. 'Career Fit 365', a two-day orientation seminar was arranged for the members of the SKY UP, with the aim of excelling in all their undertakings.

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

The college has a three - tier grievance redressal system consisting of the class teacher, HOD and the principal. The various grievances of the students reported and got redressed are given below.

- | | |
|---------|---|
| 2013-14 | Grievance regarding the bike shed was redressed by erecting a new bike shed with the financial support of the management, Alumni and PTA. |
| 2011-12 | Grievances regarding an additional 'students only bus' was redressed by communicating with the then minister for transport Shri. V.S. Siva Kumar. New 'students only boat' was obtained on consultation with the director of SWTD, Alappuzha. Renovation of the women cell room was completed with UGC aid, which was a long pending demand from girl students. |
| 2010-11 | Drinking water problem was redressed by installing water coolers. Canteen facility was extended to students. Proper cleaning of toilets is done regularly. |
| 2009-10 | Grievance regarding the mosquito menace in and around the class rooms was redressed with the help of local panchayat authorities. Grievance regarding the installing of new fans and repairing the existing ones got redressed. |
| 2008-09 | Grievance regarding the extra-ordinary growth of grass and weeds in the football ground was redressed by purchasing a new lawn mower. |

Aluminium roofing was done on the top of II floor of the main building. A bore-well, rain water harvesting system and reverse osmosis (RO) filters were also installed to overcome water scarcity. Facilities like canteen with separate rooms for faculty members and staff, girls and boys, common dining hall (for the students who carry their lunch to the college) and stationery outlets, photocopier are also provided. The renovation of the college chapel is over. The Kuttanad Heritage, Archive and History Museum, a dream project of the college, is transformed into a full-fledged one, as part of our Golden Jubilee Project. Prof. P.J Kurian, Deputy Chairman of Rajyasabha and a Member of Parliament from Kerala, has offered Rs. 7 lakhs for the Kuttanad Museum. Students' recreation hall with all the required facilities is planned on the top of the main building under the aluminium roofing.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The institution takes all precautionary measures to prevent such untoward incidents on campus. Orientation talks are conducted at the very beginning of every academic year. Value-education classes are also conducted every fortnight, Life guidance classes are arranged on all first Fridays for general students and Holy mass is celebrated for Christian students. The principal reminds the students of matters relating to the maintenance of discipline, after

the day's Morning Prayer through the PA system. The faculty always accompanies them during study tours, rehearsals and practices for competitions. The mentors also emphasise establishing a healthy relationship and mutual respect between boys and girls. The anti-ragging cell and anti-ragging squad are very vigilant to check the occurrence of ragging on campus. Neither any ragging case nor any incident pertaining to sexual harassment has been reported so far.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

As per the UGC regulations on curbing the menace of ragging in colleges, an anti-ragging committee is constituted under the chairmanship of the principal. The other members of the committee comprises the vice principal, who acts as its nodal officer, three faculty members, vice president of PTA, office superintendent and four student representatives. There is an anti-ragging squad headed by the nodal officer, PTA vice president and two faculty members as its members. The squad is very vigilant and keeps a constant watch over the campus so that this fiendish act does not happen. All the available platforms are effectively made use of to give proper awareness to the students regarding this. Various clauses in the order issued by the Government of Kerala against ragging are printed in the college hand book. On December 5 the college community joins hands to observe the anti-ragging day and take the anti-ragging pledge. The ethics and etiquette committee of the college visits every class and gives necessary awareness and instruction. No ragging case has been reported on campus so far.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

There are an array of schemes aimed at the welfare and development of the students, especially those who excel in their studies and are financially or otherwise backward. These include: Fee concessions and scholarships instituted by the Govt. of Kerala and the UGC, 62 endowments / scholarships / cash prizes instituted by the former faculty, teaching faculty, PTA and well wishers. Apart from these, the institution provides financial assistance through the Vincent de Paul society, teaching and non teaching staff aid fund, principal's poor fund and alumni fund. Besides, there are a number of amenities meant for the students and installed by the college such as - Bore well, Reverse Osmosis purifier gadget, Rain water harvesting, Canteen and Co-operative store, Women's hall, Net facility available in the library and in each department which can be accessed by the students, Photostat, CD writer, scanner, public telephone, co-operative society, motor bike shed, recreation room, benches to relax and enjoy the coolness and serenity in the college park, college chapel, air-conditioned seminar hall and smart class room, spacious college auditorium and language lab. Sprawling and luxuriant greenery of the college ground fortified by the royal palms and casuarinas trees holding their head aloft renders a congenial atmosphere for learning.

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

The college has an active alumni association. The office bearers are elected for a three- year term in the annual general body meeting. The alumni, wherever they are in the varied walks of life, leave no chance to keep in touch with their alma mater. They meet on the second Saturday of January every year to share their nostalgic experiences and feelings. They co-ordinate an array of activities which include: welfare schemes, scholarships, schemes to support disadvantaged students, medical assistance to students, send off gathering to teaching and non teaching staff members. They organize a series of lectures by eminent personalities and intercollegiate debate competition in memory of the proud alumnus, late Adv. V. Vinod Kumar. The Alumni Association extends financial support to the infrastructure development of the college. The UAE chapter has extended financial support for the furnishing and electrical work including installing AC units in Fr. Punnappadom seminar hall and renovation of the motor bike shed. The Brunei chapter sponsored journals and Kerala Gazette to the career guidance cell. Department wise alumni meetings are held separately and contribute to the well being of the college. Batch wise gatherings are also held in and outside the college to reminisce the fond memories of the college. The principal visited various Alumni chapters abroad and shared with them the institution's rich traditions and commitment in the field of education and future dreams. Feedbacks and suggestions by the alumni have helped the college to concretize the commencing of vocational courses, finishing school, and placement cell and communication skill programmes. The institution is proud to have a galaxy of its illustrious alumni holding coveted positions all over the world which reflects the realization of the vision and mission put forth by the institution.

5.2. STUDENT PROGRESSION

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Table 5.10 - Student progression to higher studies and employment

Progression	Students Progression in Percentage			
	2012-13	2011-12	2010-11	2009-10
UG to PG	81	78	75	68
PG to M. Phil.	42	36	32	26
PG to Ph. D	33	24	21	17
Employed	7	5	30	60
Campus Selection	2	1	3	1
Other than Campus recruitment	5	4	27	59

The following trends are observed from the progression table.

- (a) There has been a marked increase in UG to PG, PG to M. Phil. And PG to Ph. D progression. The recent trend among the post graduates is either to get employed or to pursue research.
- (b) A major trend noted among graduates is to pursue Bachelor of Education (B.Ed) course owing to the high employability in recognized/unrecognized schools inside and outside the state.
- (c) The dignity of labour and social commitment instilled into them by the institution bear witness to the large number of students who are employed.

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (course wise/batch wise as stipulated by the university)?

Table 5.11 - Programme wise pass percentage

Sl. No.	Programme	UG/PG	Programme wise Pass Percentage			
			2012-13	2011-12	2010-11	2009-10
1	English	UG	94	84	71	84
2	Physics	UG	92	93	67	75
		PG	69	67	70	70
3	Chemistry	UG	70	88	20	67
4	Mathematics	UG	70	54	64	33
		PG	33	62	50	50
5	Zoology	UG	90	67	50	59
6	Economics	UG	85	81	58	79
7	Commerce (Tax)	UG	84	81	67	40
	Commerce (Comp)	UG	81	81	65	43
		PG	50	67	88	86

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

In addition to curricular and extracurricular activities envisaged in the curriculum, the institution provides all infrastructural facilities, namely smart class room, modernized labs, research lab, internet, LCD projectors and inflienet. Regional and national seminars organized by various departments, lectures by eminent academicians and subject experts give ample exposure to the college community on recent trends in higher learning. Innovative teaching methods, continuous evaluation, remedial coaching, open house and interactions with parents enable our students to achieve high in the examinations. Moreover the finishing school, skill development programmes, additional skill acquisition programme, enrichment programmes, certificate courses, coaching classes for various competitive examinations, career guidance and placement cell, altogether equip the students to compete with confidence in an open fora. Visits

to industries, fishing harbours and study tours help the students to venture into the world outside the campus.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

Slow-learners are identified through entry level tests, internal examinations and continuous evaluations and they are given special attention. Mentoring, personal care, peer teaching and printed notes incorporating easy questions help them to progress in their studies. Answering 'Previous years' question papers' is given as assignment and this simple exercise is found to be highly productive to ward off the risk of failure. Frequent academic counselling is a supplement to their academic performance. A few students opt for professional courses / higher options / or get transferred.

5.3 STUDENT PARTICIPATION AND ACTIVITIES

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

The institution has sufficient and well run support services to ensure the physical and intellectual health of all its constituents. The physical education department has excelled and made extraordinary contribution to sports. The college has done well in Aquatics, Taekwondo and Football. The department gives coaching in 14 items viz. Health Club (Multi Gym), Basket Ball, Volley Ball, Shuttle, Badminton, Hockey, Foot Ball, Kabhadi, Kho-Kho, Water Polo, Swimming, Caroms, Chess and Taekwondo. Sports meet conducted annually turns out to be a memorable event with spectacular performances by the students.

The wholesome developments of the students are encouraged by conducting competitions in various cultural items:- literary, traditional and folk arts. Each department earmarks one day for talents programme and the competent ones are identified. Intra-departmental and inter-departmental competitions are conducted. A Two-day Arts festival is conducted and the winners are encouraged to participate in the university youth festival. Onam, Christmas and Kerala Piravi are celebrated with cultural events in all pomp and gaiety, by the entire college community.

The NSS conducts a plethora of activities aimed at the overall development, social commitment and personal integrity of the volunteers. The activities include seminars, workshops, social works (sramadan), village adoption, health survey, campus beautification, road construction, mini camps and special camps. A laudable and exemplary activity of the NSS is collecting mid-day meal, once a week, for the inmates of 'Snehabhavan', a home for the rehabilitation of mentally derailed victims who are from different states of India. It observes teachers day, environment day, AIDS day, human rights day and ozone day in a befitting manner.

The college has army and naval wings of NCC. They organize institutional training and the cadets participate in many centrally organized adventurous camps, national integration camps, trekking camps and annual training camps.

Selected cadets attend pre - RD camps, talsainik camp and navsainik camp. Blood donation, social works, visit to 'Snehabhavan' and interaction with the inmates on every NCC day, financial assistance to the needy families of the cadets under 15 (K) Bn. Army NCC, and 5 (K) Bn. Navel NCC, are a few of the activities undertaken by the cadets. The institution hosted three annual training camps under 15(K) Bn. NCC army in which more than 500 cadets from 5 colleges and 13 schools attended. Independence Day and Republic day are observed with solemn ceremonial parades. The tentative dates of sports, games and cultural programmes are incorporated in the college calendar.

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

During the last four years our students secured so many prizes in swimming, ball badminton, water polo, hand ball and in literary and cultural events. Army and Naval wings of NCC cadets attended various camps at the state level and national level. Students won 'A' grade for cultural competitions at the university level. Many of our students bagged trophies, cash prizes and certificates at the university / inter-collegiate level competitions in debate, essay writing and quiz.

Details of major achievements in aquatic meet / athletics / games:

2012-13

All India Intersarsity Level

1. One student represented the Mahatma Gandhi University for the All India Aquatic Meet held at Calcutta

University Level

Swimming (Men)

13 students participated in the University level aquatic meet and they secured-

- ❖ 2nd position in 4x200 m free style; 200 m butterfly
- ❖ 3rd place in 100 m butterfly
- ❖ 4th position in 4x100 m medley style
- ❖ 4th and 5th position in 1500 m free style.

Swimming (Women)

- ❖ Runners up in overall performance (Women)
- ❖ 2nd Position in 50m & 200 m Breast stroke; 200 m Back stroke; 100m & 200 m Free style.
- ❖ 2nd Position in 4x200 m & 4x100 m Free Style relay
- ❖ 3rd Position in 100 m Breast stroke; 200 m Free style; 100 m Back stroke; 200 m Butterfly style
- ❖ 3rd Position in 4x100 Medley relay

Athletics (Men)

- ❖ 2nd & 5th Position in Decathlon

Athletics (Women)

- ❖ 4th Position in 4x400 relay
- ❖ 4th & 5th Position in Heptathlon
- ❖ 5th Position in 4x100 relay

Taekwondo (Men)

- ❖ 3rd Position in Under 54Kg & Category Above 87Kg Category

Taekwondo (Women)

- ❖ 3rd position in Above 73Kg Category & Under 62Kg Category

Foot Ball Tournament

- ❖ Runners Up in the 23rd Arch Bishop Mar Mathew Kavukattu - Rev. Fr. Zacharias Punnapadom Memorial Foot Ball Tournament.

2011-12**National Level**

- ❖ Two students participated in the All India Inter-Varsity Tournaments representing the Mahatma Gandhi University, Kottayam in Ball badminton & Swimming.

University Level**Athletics**

- ❖ 3rd place in Decathlon in the M. G. University Athletic Meet.

Ball badminton

- ❖ Ball badminton team Women won the 3rd position & Men secured the 5th position in the M. G. University Ball badminton Tournament

Football

- ❖ Runners Up in the 22nd Arch Bishop Mar Mathew Kavukattu - Rev. Fr. Zacharias Punnapadom Memorial foot ball tournament.

Swimming

- ❖ 3rd place in 4x100 m Free Style Relay (Men & women), 4x400 m Free Style Relay and 4x100 m Relay (Women)
- ❖ 2nd place in 200 m (Women) Back stroke, 200 m butterfly (women)
- ❖ Secured 3rd position in 200 m free style (women)
- ❖ 4th position in the M.G University Water polo championship

2010-11**All India Inter-Varsity Level**

- ❖ Two students represented the M.G University in Swimming and water polo championship in All India Inter-Varsity championship held at Calcutta & in All India Inter-Varsity Ball Badminton tournament championship held at Chennai

University Level

- ❖ The Women team won the 3rd position in the Mahatma Gandhi University swimming championship.
- ❖ The college team (men) was one of the four prominent teams in the Mahatma Gandhi University water polo tournament
- ❖ The college team was placed at the 4th position in the Mahatma Gandhi University swimming championship
- ❖ The college team (men) was one of the four prominent teams in the Mahatma Gandhi University hockey tournament
- ❖ The college team (women) was one of the four prominent teams in the Mahatma Gandhi University Ball Badminton tournament
- ❖ The college team (men) secured the 5th position in the Mahatma Gandhi University Ball Badminton tournament

2009-10

- ❖ Two students represented the Mahatma Gandhi University in the All India Intersarsity swimming championship.
- ❖ 20 prizes were won by the students who took part in the MG University sports meet.

2008-09

- ❖ Two students represented the MG University in the All India intersarsity swimming championship.

Achievements by the students in co-curricular, extracurricular and cultural activities are exhibited under 3.6.7.

5.3.3. How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

The college receives mainly oral feedback and occasionally written feedback from its graduates and employers through college alumni association, departmental alumni associations, batch wise alumni meetings and foreign alumni chapters. The principal solicits written feedback occasionally. College authorities and dept. teachers are always in constant touch with them. The Alumni Association gives financial support in the development of infrastructure of the college. Feedback / suggestions are consequential to the commencement of finishing school, skill development programmes which brought about a sea change in the very ambience of the institution.

5.3.4. How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

Manuscripts are published yearly by each department and the best magazine is awarded with a prize.

Newsletters – ‘Aloysian News Letter’ by the college, ‘Placenta’ by the department of Zoology - and Pamphlet – ‘Bio-informa’, by the department of Zoology and Wall papers by various departments are published. College magazine is published every year with the Principal as the chief editor, assisted by an editorial board consisting of a staff editor, student editor and faculty members.

Table 5.12 - College magazines published during the last five years

Year of Publication	Title of the Magazine	Name of Student Editor
2012-13	Fantasia	Ganesh P. Nair
2011-12	Venture	Dipuraj A.R
2010-11	Adastra	Jithin John
2009-10	Vintage	Martin T Kalangara
2008-09	Annals	Roopesh T Haridhas

Short films and profile of the college are produced, directed and acted by the students. ‘Alarm’ is a short film directed by one of our students. The actress who gave life to the heroine in the film bagged the state level ‘best actress’ award. The sky up forum has a display board wherein cut pieces of information like ‘thought for the day’, new vocabulary and current events are exhibited and a write up on selected topics are invited from the students.

5.3.5. Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

The college has a student council for developing the leadership qualities of students. The student council is constituted by class representatives, association secretaries and a teacher representative from each department. The sports council with the secretary and representatives from each association assists the physical education director in organizing sports, games, tournaments and aquatics. The arts club is formed by the representatives elected from among the secretaries of all the associations. The arts club director nominated by the principal is in overall charge of the arts club and its activities. The NSS which has two units functions under two programme officers with two volunteer secretaries who are elected from among the volunteers. NCC Army and Navy appoints a Senior Under Officer and three Under officers from among the cadets.

CRITERION VI

GOVERNANCE, LEADERSHIP & MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

The college envisions the formation of global citizens with academic excellence and integrity of character, who can champion the cause of a Just Society.

The mission of the college is to mould the students as skilled, worthy and globally acceptable citizens who would uphold the values of peace, love and fraternity.

Established as the only seat of higher learning in Kuttanad, the college bears the characteristics of the locale and inhabitants of whom the majority are farmers and agricultural labourers. They desired for an educational institution that would transform the future generation educationally and help them overcome the barriers and cross the boundaries of this water-logged region. The Catholic Church's determination to uplift the down-trodden and to spread Catholic traditions of brotherhood, love, self-respect, dignity and ethical values to the younger generation and to accomplish the educational, social, economic and cultural aspirations of the natives, evolved into the vision and mission of the college.

The institution's educational endeavors aim at forming intellectually competent, spiritually mature, morally upright, psychologically integrated, physically healthy, socially acceptable and God-fearing men who will champion the cause of justice, love, truth and peace and who are ever open to further growth. The institution aspires the creation of a just and humane society with dignity and mutual respect, where the cultural and religious traditions are upheld, where the deprived are specially taken care of and where national integration is given prime importance.

The college admits students belonging to all communities. They are accepted and cherished as they are in such a manner as to grow in their cultural, social and religious traditions. Being in the college, they have a chance to get acquainted with the person of Jesus Christ and His Gospel. The college has a special concern for the faith formation of the Christian youth. The institution strives to provide value-based-training and academic excellence to the students. The college spares no effort to inculcate the qualities of equality, fraternity, unity, secularism and national integration among its stakeholders. The management of the college ensures that the vision of the college corresponds to its mission and is practised in all academic and administrative activities of the institution.

The institution has a rich tradition of harmonious and peaceful co-existence of boys and girls giving respect to one another. The institution discourages social, economic, gender and caste discrimination. The Equal Opportunity Cell ensures that all the facilities are made available to all the students. Many philanthropic activities are practised by the staff and students. The institution is particular in maintaining a warm relationship among the students.

The institution has an academic tradition of rank holders, international and national aquatic champions, successful farmers, business magnets, administrators, scientists, fish farmers, ecclesiastical and other religious leaders, politicians, professionals (doctors, engineers, professors, and teachers), artists and writers spread over different strata of the society across the country and abroad.

The college attempts to scale the heights of academic excellence through various programmes organized in the college, in the neighborhood and in the society at large. Introduction of need-based UG/PG programmes, expansion of library facilities, sports infrastructure including swimming pool, community services, promoting organic farming, fish farming, strengthening skill development programmes, extension programmes, collaborative learning, enriching and empowering the neighbourhood, community water supply scheme, staff quarters, management study centre and community college are some of the plans for the near future.

In brief, St. Aloysius College was conceived as a doorway for the under - privileged youth of the remote water-logged rice bowl of Kuttanad, to pass into the realms of higher education.

6.1.2. What is the role of top management, Principal and faculty in design and implementation of its quality policy and plans?

The college is owned and managed by St. George Forane Church, Edathua with the Archbishop of Changanacherry as its patron. The Vicar of the parish is the President of the Governing Body of the college. The Principal of the college is the secretary to the Managing Board. The other members are three representatives of the parish one member representing the faculty, the Bursar and the vicar from the Lourdes Matha Parish Church. The Board meets five times a year, on average, to plan and to execute various activities in line with the quality policy of the institution.

True to the vision and mission of the college, the Governing Body and faculty design and implement quality – policies. The Institution is committed to Christian policy of education providing excellence in education by effective translation of the curriculum, holistic development of the stakeholders through many curriculum supporting programmes, promotion of research culture by harnessing the services of qualified research scholars as faculty members and by continually improving on its services to the society. The institution's immediate concern at the time of its establishment was the uplifting of the under privileged youth who were marginalised economically, socially and culturally. They are assured of a value-based quality education and service in keeping pace with the changing educational scenario.

The administration of the institution is vested upon the Principal who takes necessary actions with regard to day-to-day affairs of the institution in keeping with the policies of the institution. He is assisted by the Staff Council, a statutory body and IQAC in evolving distinctive academic activities for each academic year giving thrust to a specified area. The Staff Council consists of all the heads of the department, Staff association representatives, Librarian, IQAC director and the superintendent. The IQAC meets prior to the Staff council meetings and its suggestions/recommendations /evaluations are discussed in the monthly meetings of the Staff Council. The Council also meets more often if situation arises. Suggestions/inputs from the faculty members are also discussed and the decisions are conveyed to the staff. Important issues are discussed in the general body meetings of the teaching and non-teaching staff whereby the involvement and support of the staff is assured.

6.1.3 What is the involvement of the leadership in ensuring:

- the policy statements and action plans for fulfilment of the stated mission
- formulation of action plans for all operations and incorporation of the same into the institutional strategic plan
- Interaction with stakeholders
- Proper support for policy and planning through need analysis ,research inputs and consultations with the stakeholders
- Reinforcing the culture of excellence
- Champion organizational change

The Governing Body lays down the quality-policy and action plans are evolved by the Staff Council in liaison with the IQAC.

a. The policy statements and action plans for fulfilment of the stated mission.

The policy statements in tune with the vision and mission of the institution and especially in the background of fast changing educational, cultural and material scenario of the state and particularly of the region are analysed and finalised by the management. Academic excellence, global competency, effective communication, eco-friendly activities, charity works, social activities, character integration and cross cutting issues are given thrust. Action plans for all operations comprising academic, co-curricular, extra-curricular, enrichment, skill acquisition, eco-friendly and extension activities including infrastructure and ICT facilities are chalked out for the fulfilment of the stated mission.

b. Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

The aspirations, suggestions and needs of the stakeholders towards an assurance of culture of excellence reflect in the formulation of action plans for all activities – academic, curricular, co-curricular and extra-curricular as well as Aloysian Beyond the Curriculum Programmes which are then incorporated into the institutional strategic plan.

c. Interaction with stakeholders

The principal interacts with the students, alumni, parents, peers, prospective employers and eminent personalities and collects written / oral feedback from them. The staff council evaluates them and requests the IQAC to evolve action plan accordingly for the coming year

d. Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

The interactions with the stakeholders, beneficiaries, neighbourhood and inputs from surveys, field visits need analysis consolidate support for formulating quality-policies and their implementation. .

e. Reinforcing the culture of excellence

Academic and curriculum supporting activities, adequate infrastructure and ICT teaching facilities do reinforce the culture of excellence. The institution avails the assistance of professional counsellors, faculty mentors and through various animation/orientation and induction / bridge programmes strives for the culture of excellence. The 'EXCELENCIA' project launched by Dr.A.P.J.Abdul Kalam, the former President of India manifests the institution's commitment and efforts for the realization of a culture of excellence. Moreover, the curricular and co-curricular activities, enrichment and extension programmes, research-oriented teaching-learning methods, research lab facility, coaching for various competitive exams, eco-friendly movements and a healthy relationship between the staff and students reinforce the culture of all-round excellence.

f. Champion organizational change

The institution brings in administrative and organizational changes from time to time. A full time bursar is appointed by the Management to supervise the construction activities in the premises. Directors/Co-ordinators are appointed for the effective conduct of the self-financing course like B.Com (Computer), M.A. (English), M.Sc. (Aqua Zoology) and EEM.

6.1.4. What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The Governing Body meets frequently to monitor and evaluate the overall performance and the progress made by the institution with regard to the stated quality-policies and action plans and to take appropriate decisions.

As directed by the management, the Principal, staff council and IQAC evolve a proper action plan for academic as well as supportive activities, with the involvement of the faculty and co-operation of students and parents.

Each Department implements them by charting out a time-frame for completing the syllabus prescribed for each semester, assigning class-in-charges and mentors, conducting continuous evaluation test papers, organizing seminars and workshops and training the students for college level and university level competitions. The departments take initiatives to organize department

association meetings and alumni gatherings and collect feedback and suggestions from them.

Department level evaluation of the effective implementation of the policy and plans are monitored by the IQAC. The staff council then discusses the evaluation and analysis report and measures for improvements are conveyed to the staff in general body meetings.

6. 1. 5 Give details of the academic leadership provided to the faculty by the Top management.

The manager addresses the faculty at the beginning of the academic year, emphasizing the quality-policy of the institution and its implementation. Animation / orientation programmes for teachers and the non-teaching staff are arranged by the management for the effective transaction of the policy. The educational conventions convened by the management offers yet another platform for a face-to-face meeting between the manager and the faculty members for fortifying the efforts to translate the vision of the institution into execution.

The management encourages the academic prospects of the faculty by allowing them to present and publish their research papers, participate in various academic activities and permitting them to go on for FIP programmes. The management also promotes new trends in the teaching-learning process by providing ICT and internet facilities, modernized and well equipped science laboratories.

As the head of the institution the principal administers the college by adhering to its quality policy. He is assisted by the Staff Council in all academic and administrative matters. He ensures the involvement and co-operation of the teaching and non-teaching staff in the smooth functioning of the institution. There is transparency in all the decisions taken by the principal and staff council.

6. 1. 6 How does the college groom leadership at various levels?

The institution offers opportunities aplenty for the staff and students to groom their leadership traits.

The Principal holds the office of the President of Principals Council (Council of Principals of Colleges in Kerala). For the faculty members, the college offers opportunities to develop their leadership qualities- as heads of the departments, as members in the various Board of Studies, as senate members in the university, as club directors, as NSS programme officers, as NCC officers, as association office-bearers, as leaders of professional organizations, as mentors, as class teachers, as research scholars and as resource persons. The faculty members are also appointed as presiding officers in elections to Local Bodies, State Legislative Assembly and Parliament. Majority of them have worked as master trainers to the census and NPR enumerators.

The non-teaching members get opportunities to express their leadership qualities by handling different sections in the office, officiating in state and central elections and as professional organization office-bearers.

The students, by volunteering membership in more than one club and officiating as office-bearers of different clubs, NSS volunteer secretaries, senior under officer and under officers in Army, cadet captain in Navy NCC, association secretaries, sports secretary, class representatives, members to college union, student council members and as representatives to other institutions to participate in inter-collegiate inter-university competitions, utilize myriad opportunities to develop their leadership qualities. It is worth mentioning that the present District Panchayat President of Alapuzha is an alumna of our college. Many of our former students give leadership to various local bodies, political, social and cultural organizations.

The campus achieves colourful and scintillating atmosphere by the programmes arranged by various forums, associations and clubs under the common umbrella 'Aloysian Beyond Curriculum' (ABC). They provide ample opportunities to the students to excel in various leadership roles.

NCC (Army and Naval Wing) units which function in the college strive to promote and fulfil the NCC motto 'Unity and Discipline'. The training provided here helps the cadets to achieve the aims of NCC, develop leadership quality, and foster the spirit of patriotism and commitment to our mother-land.

NSS (National Service Scheme) tries to inculcate the spirit of social and philanthropic services among students. The different clubs such as debate and elocution club, entrepreneurship development club, career guidance club, readers' club, quiz club, and the women's forum groom the student community to grow into dynamic and flourishing leaders with charisma, who can contribute well to the development of the nation.

Various academic association secretaries (students) under the guidance of their presidents (teaching staff) organize association level programmes ensuring successful implementation of programmes. The class representatives and the executives drawn from these organize sports and games programmes in the college.

The SKYUP, an innovative forum launched in the college in 2010 provides a platform to the talented buds of the college to develop their leadership and event management skills. It is a Forum for Excellence and has evolved into a successful event management team as well.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments/ units of the institution and work towards decentralized governance system?

The Manager has delegated administrative powers to the Principal who takes care of the administration of the college. The staff council advises him on academic matters. The conduct of university exams, steps for appointment of faculty and staff members, admission procedures, matters regarding students' service, official communications with the university and the higher education department, and financial matters are vested on the Principal.

The construction as well as maintenance of the infrastructure is taken care of by the Bursar.

The staff council assists and advises the Principal in all academic, administrative and students' service matters.

The IQAC prepares the blue print for all academic activities and with the staff council's approval directs each department to execute them. Quality improvement measures, namely orientation programmes, action plan, evaluation, innovative teaching methods, research orientation are carried out by the IQAC.

Each department works within the plan-frame designed by it. The administration is delegated to the head of the department who takes care of the academic, association activities and supervises teaching-learning and evaluation process. In matters of admission he assists the principal. He arranges the work of the faculty members, organizes regional/national/international seminars and inter-collegiate and college level competitions, orientation programmes for the students and arranges open houses. The inputs/suggestions from the faculty are conveyed to the principal and discussed in staff council meetings.

The office administration of the college is headed by the office superintendent who in consultation with the Principal, co-ordinates the administrative functions.

The librarian supervises purchase of books on the advice of the library council and provides various facilities to the students in utilizing the library properly.

Various clubs under the ABC hold membership campaigns and organize activities which aim at an all-round development of the students. The directors of skill development, enrichment and extension programmes, certificate courses and finishing school, organize and execute programmes in ways beneficial to the stakeholders. They issue certificates to those who have successfully completed the courses.

The college union members and association office bearers who are the representatives of the students give leadership in organizing various functions in the college and conduct association activities, competitions and cultural programmes.

The operational freedom allowed to the above mentioned bodies promotes the organizational skill of the faculty and the students and successfully transform them into confident and inspired personalities. The decentralized governance system has in fact enhanced the participation and commitment of the faculty.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

The Managing Board, besides the principal, has a representative from the faculty. The views of the faculty are reflected through them in matters of quality policy, recruitment, admission academic and service matters.

The Principal is assisted and advised by the staff council which takes decisions on all academic and administrative matters. The staff council comprises all the heads of the departments, representatives of the staff association, the office superintendent and the librarian.

The IQAC, headed by the chairman and secretary, includes nominated members from the faculty, the office superintendent and the librarian. The IQAC prepares various academic programmes aimed at quality-education, academic excellence and the attainment of the vision and mission of the institution. The recommendations of the IQAC are conveyed to the staff council, which in turn, makes decisions on the basis of its suggestions.

The heads of the departments and faculty members implement the programmes prepared by the IQAC. Various associations headed by the representatives of the students give leadership in organizing and conducting department level activities.

The librarian is supported by a library advisory council consisting of the principal, representatives of teachers and students. The library functions in a manner that is extremely useful to the faculty and students.

The students give leadership to various clubs and forums and associations. They organize college-level and department-level programmes.

The alumni meet once a year and support the institution in carrying out several programmes. It organizes All Kerala Inter-Collegiate debate competition and the Adv. Vinod Kumar Memorial Lecture. Department wise Alumni meetings are held annually. The alumni launch several financial supporting programmes for the students. They serve noon day meals to the needy.

The parent teacher association, a very active and strong body helps in maintaining discipline, curbing student unrest and politics, providing infrastructure facility like the trestle work for the roof and motor bike shed, and valuable suggestions for the academic development of the institution.

The former faculty members frequently visit the institution and departments, offering talks and lectures on various topics, for making the younger faculty more equipped.

Coordinating all administrative activities, the office superintendent supervises the office staff.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

The college came into existence in the year 1965 with a formally stated quality-policy as evidenced in its vision, mission, objectives and aim. It has been duly influenced by the teachings of the Church on education. The policy upholds that “true education is directed towards the formation of the human person in view of his final end and the good of that society to which he belongs and the duties of which he will, as an adult, have a share. Due weight given to the advances in psychological, pedagogical and intellectual sciences, children and young people should be helped to develop harmoniously their physical, moral and intellectual quality” (G.E. II Vatican Council). The National Policy on Education has also fortified the policy of the institution.

The then social, economic, educational, cultural, religious and financial background of the water-logged granary of Kuttanad had a strong impact on the quality-policy of the institution at the time of its inception. At a time when no educational agency or religious community dared to establish a college or a centre for higher learning, meeting all the pre-requisitions for such an institution, particularly in the background of the non-conducive geographical features of Kuttanad, St. George Forane Church, Edathua, proceeded to start a Junior College, with the motto 'Lighted to Light', colouring the dreams of the people of the region and materializing their long standing need for a centre of higher learning. Thus the institution acts as a door way for the under privileged youth of the locality to pass into the realms of higher education.

The founding fathers had in their mind a vision of an institution, which aimed at the training of young men and women of quality who would serve as creative leaders and responsible citizens in the service of the nation. The institution guarantees that every effort would be made to see that the students become intellectually competent, well-equipped, morally upright, socially committed and God fearing. The institution aims at such an education that will instil into the minds of the students its vision, so as to inspire and illumine them for becoming resourceful persons of the country.

In the second phase of its development, considering the changing needs of Kuttanad, the management initiated steps to upgrade the college to degree level. Education is now considered an integral element in the fulfilment of individual and social responsibilities.

St. Aloysius College aspires towards creating a just and humane society where dignity of the person is respected, where unjust social structures are challenged, where a culture of ahimsa, religious harmony and national integration are upheld and where the poor and marginalized are taken care of.

The institution has to act as an extension of the student's home, reaching out to the families to assist them in their needs, to share their joys and sorrows and help them experience love and peace. The college considers itself liable to be open to the society at large and therefore makes its resources available for extension programmes, ongoing education and non-formal teaching which benefit the society.

In the third phase of its development of quality-policy, the institution widened its service to the society, offering 9 UG courses and 5 PG programmes, a research centre in commerce and a distance education centre. In view of the social, cultural, educational religious and financial changes, the college reviewed its quality-policy. The motto has now been changed to "Let thy divine light shine miraculously" – reminding the faculty and students of their role to be beacons of light in the society as they have received enlightenment from the centre of learning, especially in the modern age of globalization, where the whole world is reduced to a village, and where information is available at one's finger tips.

Thus the mission of the college is now to mould the students as skilled, worthy, global citizens who can uphold the values of peace, fraternity and love.

The college now envisions the formation of global citizen with academic excellence and integrity of character who can champion the cause of a just society.

The quality-policy stated in its vision and mission is developed through prospective plannings at the beginning of each academic year. As a first grade college with NAAC accreditation, the college progresses in its journey equipping the students to meet and solve their problems in life. The college's stated quality-policy in achieving great success in the field of higher education, prompts students to go for research, specialization and to become globally employable.

Driven

The institution is bound to achieve the above mentioned goals and the entire college community is relentlessly working for accomplishing them.

The IQAC plays a vital role in crystallizing the quality-policy in discussion with the staff council, along with the faculty members, stake holders, parents, alumni beneficiaries and neighbourhood. With specified thrust areas the IQAC evolves the action plan which is to be implemented by the college community.

Deployed

The IQAC formalizes the policy and the staff council approves it and the faculty members deploy the policies for greater achievements in academic matters, in curriculum supporting programmes, enrichment programmes, skill development programmes, extension programmes and all programmes fostering values.

The IQAC contributes to the enhancement and maintenance of quality of teaching-learning in the college. Periodical meetings held by the Principal with the teaching and non-teaching staff, interaction with students, animation and induction programme organized for them, interaction with parents, induction programme for the parents, feedback, suggestions, and the analysis of needs of the society are the ways and manner for deploying policy.

Review

Feedback, responses and suggestions from the teaching and non-teaching staff, parents, students, and alumni are conveyed to the IQAC. The IQAC carries out internal and external academic audit, analyses the results, considers the need of the time and evolves measures for improvement. The review is then presented before the staff council. The staff council discusses and decisions are taken for the implementation of worthy suggestions in the coming year.

Academic excellence, character formation, personality development, academic progressions and employability are given stress with regard to the policy of the institution.

Lapses regarding academic matters, discipline, infrastructure, curricular, co-curricular and extracurricular activities, results / achievements, administrative matters and any change in the policy are presented before the Managing Board.

The upcoming Academic Year's policy and action plan are formulated accordingly.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Perspective plan for development & aspects to be included

Plans - Academic affairs –

The institution intends to adopt modern trends and methods in imparting knowledge by introducing new programmes in UG and PG, to enhance employability, to establish Research Centres – in Physics, Mathematics, more add-on courses and Diploma Certificate courses and to organize national international seminars and workshops, so as to make it an institution with Potential for Excellence (CPE).

Material / Infrastructure

As part of adopting modern trends in imparting knowledge, more ICT-facilitated class rooms and one smart class rooms for each PG department are to be structured. Latest IT gadgets with regard to education are to be made available for the faculty and students. With the aim of improving the college aquatic team's prospects, a swimming pool is planned for. Jubilee Memorial Block, library building and digitalization of the library with KOHE system, staff quarters, P.G. Block, indoor stadium, beautification of the campus and car shed for the teaching and non-teaching members are also some of the plans for materialization. The project 'Kuttanad Heritage and Cultural Museum' with the aid from Govt. of India through the Deputy Chairman of Rajyasabha Prof. P.J Kurian is hoped to be completed within a year.

Value Education

A fruitful mentoring system, counselling and its follow-up sessions, pro-life programmes, second edition of 'Fragrance of Values', by adding of recent and relevant topics are pondered over for moulding a future generation of integrated personalities.

Health

Yoga classes for all girl students, competition in yoga, clean and green campus and introduction of a UG course on hygiene and health are being considered by the management.

Effective role in the Society

The Department of Zoology and Aloysian Study Centre on Kuttanad have already organized two programmes - Women entrepreneurship and waste management for developing self-realization and self-reliance among the women- folk in Kuttanad. More women empowerment programmes especially among the members of 'Kudumbasree, and Ayalkoottam' are in the offing.

Enhancement of the number of visits to more industrial centres, business firms and other enterprises within and outside the state under the auspices of Entrepreneurial Development club aimed to develop entrepreneurial skills, social and business contacts among students are also contemplated upon.

Aiming at the intellectual and material widening of the Aloysian Neighbourhood, the institution plans to provide them with ample support in pickle-making, Popularizing of CF lamps, waste management and biogas plant under the guidance of Save Energy programme. Special coaching classes for the neighbourhood children studying in high school and financial aid to the deserving neighbourhood children with the help of the Alumni and PTA are also schemed to strengthen the tie-up between the institution and the neighbourhood.

National Service Scheme plans to continue awareness programmes on social evils like alcohol consumption, drug addiction and killer diseases in the neighbourhood.

Plans in the eco-friendly field

Workshops, seminars and demonstration programmes are considered for popularizing Save Energy programmes, CF lamps, Biogas plants, Plastic-Free campus and Save Water programmes among the students.

The college has taken the initiative to store more than one lakh litres of rain water and hopes to supply drinking water to the neighbourhood and establish a biogas plant for the ladies' hostel. As the campus is plastic-free and eco-friendly the institution hopes to expand the activities of Bhoomithrasena and Energy and Nature Club to the neighbouring villages.

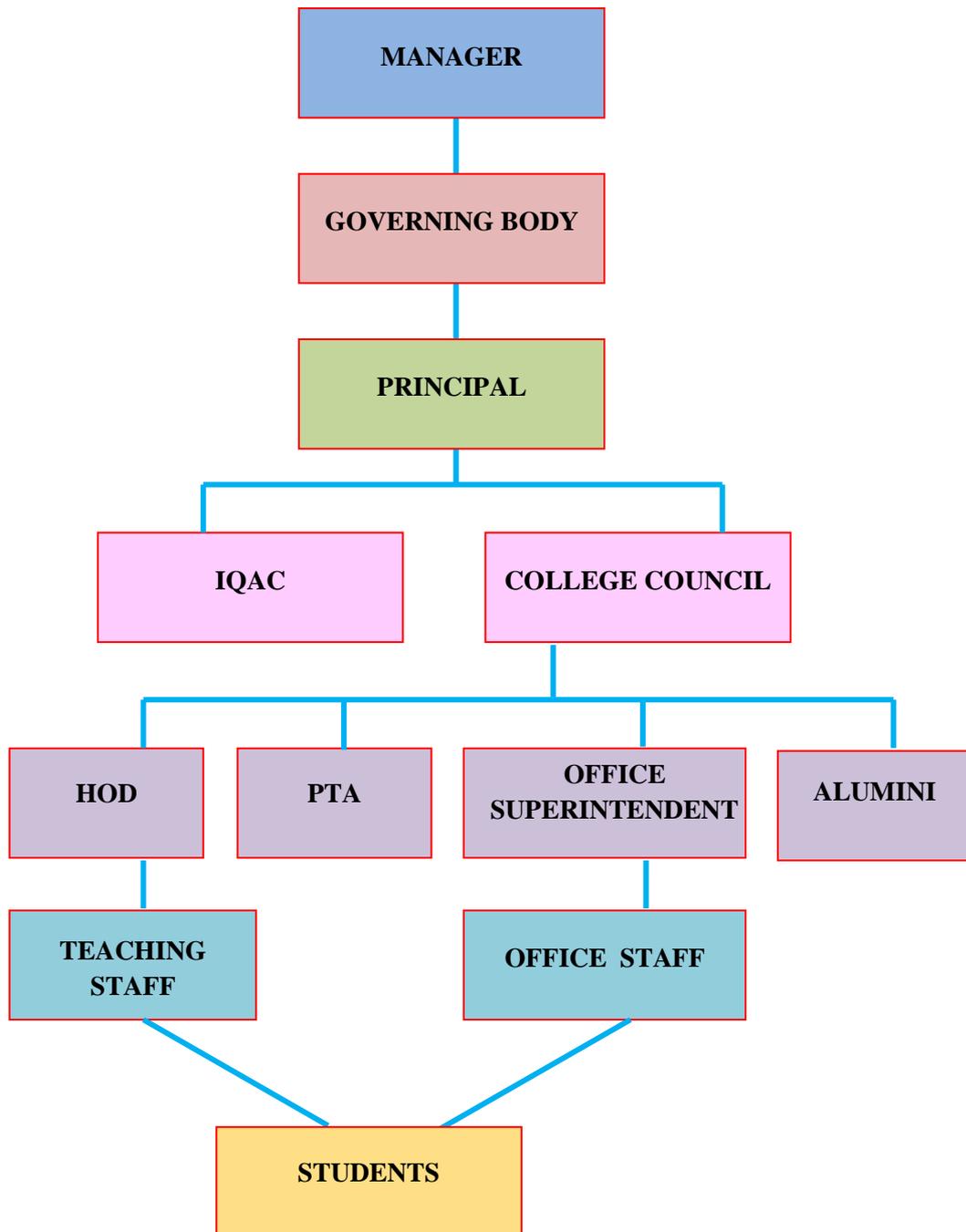
Human Resources Management

The institution is determined to enhance the employability of its stakeholders. The placement cell arranging campus selection, finishing school, Additional Skill Acquisition Programmes (ASAP), Sky Up forum, and coaching centres for various competitive exams, demonstrate the institution's commitment to human resources management and make available their services to the entire student community. Members of the faculty are willing to assist the state and central government in the conduct of elections. Some of the faculty members are already resource persons to Census and NPR.

Research

The institution promotes research culture among the faculty and students. To enhance the facility provided to teachers / students / outside students for research-oriented activities by securing latest equipment in the research lab, creating opportunities for the faculty to undertake minor and major research programme and facilitate them to attend seminars, workshops organized in other institutions and states are some of the steps the institution plans to implement in the field of research. The commitment of the management and the college for research has facilitated a quantum jump in the number of teachers with PhD / M.Phil during the post reaccreditation period to 16 and 12 respectively.

6.2.3 Describe the internal organizational structure and decision making processes.



The College is owned and managed by St. George Forane Church, Edathua. The Arch Bishop of Changanacherry is the patron. The Vicar of St. George Forane Church, Edathua, is the manager. The College Trust and the Governing Body, are the prime statutory bodies which govern and steer the institution in its onward journey. The manager is assisted by the Governing Body on whom the management of the college is vested upon. All the decisions related to the management of the college are taken at the board meetings: infrastructure, new courses, research centres, appointments of the staff, admission and finance.

The Governing Body meets at least five times a year and discusses the thrust area to be specified for the coming year, introduction of more extension and enrichment modules, review of the feedback analysis and suggest areas to be strengthened. With regard to infrastructure, the body initiated steps for constructing a women's hostel, smart room, compound wall with an arch and main gate, beautification of the campus, renovation of the old discarded buildings, the conference hall, women's hall and provision of ICT facilities with UGC aid.

The College council: It is a duly constituted statutory body properly representing the teaching staff, (all the heads of the departments, two representatives from the staff association), physical education department, library and office. As an apex body with regard to academic, administrative, discipline and student service matters, it holds frequent meetings and takes decisions on the suggestions of the IQAC and implements them. The staff council and IQAC incorporate constructive suggestions and opinions, in finalizing the plans and policies for the year.

The IQAC: The IQAC is composed of 23 members, representatives of faculty including the principal (16), administrative staff (2), alumni (2), management (2), and stakeholder (1) It proposes academic plans, on the basis of the directions of the state government, UGC, higher education department, university and the managing board. It also takes into consideration the feedbacks from stakeholders, parents, alumni, teaching and non-teaching members, neighbourhood, prospective employers and analyse them and submit a comprehensive action plan, specifying a thrust area to the staff council inclusive of proposals for staff development programmes, infrastructure facilities, tools for teaching-learning process, learning resources, regional, national and inter-national seminars, workshops and animation programmes both for the faculty and students, research projects (minor and major), community engagement programmes and human resource management programmes, more extension and enrichment programmes value added courses, add-on courses, certificate courses and student service and welfare matters.

Heads of the departments evolve time bound action plans for each semester on the directions of the IQAC and organize continuous evaluation tests, interaction with parents and various seminars, workshops and competitions. The faculty members update themselves by attending various orientation/refresher/seminars and workshops, formulate innovative teaching-learning methods, undertake research projects, and give leadership to the various forums as well as the activities of the department. The teaching

faculty lends their full support to the heads of the department for the implementation of the aforesaid activities.

The Office Superintendent and the office staff assist the principal in the administration of the college.

The Bursar takes up all financial matters and supervises the construction works on campus and acts on the instructions of the manager, the governing body and the principal.

The students Council / Union to the College voice the opinions, suggestions and the needs of the students and organizes various functions in the college. It concentrates its attention on student welfare matters. The representatives in various associations, clubs, forums, NCC, NSS and sports council give leadership to the respective clubs and carry out activities vested on them.

The Parent Teacher Association and **Alumni** also support the various activities in the college and implement the decisions taken by the staff council. They support the construction works on campus like the truss work, rain water harvesting and motor bike shed. The alumni too, give financial support for providing noon-meal to the needy students, and economically poor children of the neighbourhood.

The other advisory bodies that assist the staff council are the admission committee, arts club committee, library advisory committee, academic calendar committee, Aloysian Beyond Curriculum office-bearers, alumni association, anti-ragging committee, ethics committee, tournament committee, NSS advisory committee, purchase committee, internal auditors, discipline committee, women's forum, CBCSS internal assessment co-ordination committee, student counselling and mentoring committee.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- Teaching & Learning
- Research & Development
- Community engagement
- Human resource management
- Industry interaction

Teaching & Learning

The institution publishes the academic calendar on the basis of university academic calendar, the instructions of Governing Body and the decisions of the staff council. The calendar contains the vision, mission and policy strategies of institution as well as the teaching-learning schedules.

The management supports teaching-learning process by recruiting efficient, highly qualified and dedicated faculty members purely on the basis of merit adhering to the norms laid down by the Government and UGC. Infrastructure, ICT facilities and learning resources are provided either with the help of UGC grant or bearing the expenses from its own resources. The faculty is encouraged to avail FIP and the management offers all assistance for them to complete the programme in time.

The IQAC identifies the thrust areas for each academic year and proposes plans for the academic activities in tune with the thrust area which help translating the vision and mission of the college and attaining of academic excellence. Each department formulates action plans on the directions of the IQAC for the teaching schedule, continuous evaluation, internal examination, remedial coaching, bridge courses, project works, assignments, seminars, workshops, various competitions, extension programmes and interactions with parents and alumni.

The IQAC insists on quality-teaching-learning methods, practice of innovative methods, employing of ICT facilities in the smart room and in the class rooms, proper conducting of continuous evaluation, timely formulation of action plan and internal academic audit. Teaching and learning is student centred. Personal involvements of the students are ensured in paper presentation, project works, peer teaching and peer learning. For these students can avail internet facilities in the departments, in the library and in the net resources centre. Remedial coaching is given to slow learners and compensatory classes for participants of university level competitions and activities. Advanced learners are provided with opportunities to put to use their maximum potential. Mentoring and personal counselling boost the mentally distracted, physically different as well as slow learners.

The open course programme in the fifth semester and the elective paper in the VIth semester offer the students lateral and vertical movement in the university curriculum. The institution selects and offers open courses and elective programmes with an eye on widening the areas of their knowledge in other streams and enhancing academic and vocational opportunities as well.

Activities of various clubs and forums under ABC, extension, enriching and skill developing programmes facilitate the institution in adequately integrating its stated goals and complementing university curriculum.

On-the-job training, study tours, visits to industrial, business, marine and research centres, provide ample exposure to the students in evolving their own profession and career.

Various scholarships, endowments and prizes stimulate the students in their academic activities. The assistance given to economically backward students and the encouragement given to differently abled students help them to overcome hazards in learning.

Above all the institution provides a congenial atmosphere for students to carry out their studies with diligence and devotion.

Research and Development

The Governing Body gives priority to research oriented academic activities in the institution and thereby create a research culture among the faculty and students. The institution's policy is research promotion and the faculty is advised to carry out FIP programmes, minor and major research projects. The forum 'the research fraternity' invites research projects and papers from faculty and students, publish a research journal and offer guidance to pursue research and applying for research projects. The research centre under the

Department of Commerce admits prospective candidates to PhD. The MATLAB and MATHEMATICA under the Department of Mathematics and the research lab under the Physics Department are fully fledged for research activities. The department collaborates with research laboratories under various govt. agencies, where the students from the department and Alumni engage in research works. The college has promoted Net Research Centre (NRC) with the aim to promote the research activities of the faculty members. Net facilities and infibnet in the library provide access especially to the students for their projects.

Community Engagement

Enlightening as well as serving the community through many extension programmes which have been meticulously planned and implemented have led to the recognition of the institution in the society. These extension programmes which are need based extends from the Aloysian Education Extension Programme through ASCK, Research Lab, Electronic Workshop, Tax Consultancy Service, Soil and Water test Analysis, Aloysian Neighbourhood Forum, Charity Initiative Programme to Rural English Language Programme.

The institution has now extended its service to the women folk of the neighbouring panchayats (Kudumbasree and Janasree units) by organising women empowerment programmes there by promoting women entrepreneurship among them. Achar making, ornamental fish cultivation, various recipe for cooking 'Karimeen dishes' and waste management have been organised for them.

Save energy and save water have also been popularised through extension services. The college community engages in several surveys on socially relevant issues, education, economic and health. The findings are submitted to the authority concerned.

Human Resource Management

The institution takes initiatives in arranging HRM programmes; motivational talks, career guidance and placement, development of soft skills, interface with great achievers, training for the stakeholders to make them globally employable and stress management. Coaching for various competitive exams, namely PSC, UPSE, Bank coaching, are arranged. Career guidance and placement cell take initiatives in arranging campus placement programmes for the final year UG and PG students.

The management appoints qualified and experienced faculty. It plans to introduce new courses in UG and PG which will benefit the stakeholders in meeting with the requirements of national and multi national companies. The guest faculty is allowed break in service to take up research projects.

Industry Interaction

The Entrepreneurial Development and the Career Guidance and Placement Cell arranged visits to industrial centres, business firms and corporate offices. It also invites eminent entrepreneurs in different fields to promote

entrepreneurship among the stake holders. Business magnets namely Kochouseph Chittilapally (V-Guard Industries), Navodaya Appachan (Film Producer) visited the college recently. Visits by top officials of fisheries department motivate students interested in fish farming, ornamental fish growing, aquarium making. Bank officials are also invited to conduct classes on banking, opportunities in banking sector and provisions for establishing small scale industries. The study tours organised by various departments, include visits to industries, business houses and farms outside the state, instil entrepreneurial aspirations and decisions the minds of the stake holders. On the job training programmes are mandatory for the model to UG students.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The principal collects feedback from the faculty, students, parents and the alumni and from personal contacts; teachers from nearby schools, gramasabha members, local organizations and neighbourhood who associate with the college. The meetings with staff, students and parents, the reports of various clubs and forums, the evaluation by the IQAC and staff council help the principal to frame a comprehensive information regarding the functioning of the institution. They are analysed and presented before the management and the stakeholders. The review by the management evolves into various proposals – introduction of UG, PG courses, facilities of all kinds and making available of learning resources.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The management encourages and supports the college in all respects like finance, recruitment, infrastructure and render all kinds of support on priority basis, by holding common meeting and personal visit to the institution. The management fixes minimum percentage of marks for admission to UG and PG courses under the community and management quota. Animation programmes under the banner Georgian Educational Meet is organized annually for the teaching and nonteaching staff of all educational institutions under the management and which help to orient the members in their tasks. Management supports disciplinary actions taken by the principal and the staff council. The management promotes the introduction of enrichment programmes, add on courses and finishing school.

The management ensures the involvement of the faculty in many managerial and advisory boards like managing board, construction committee, staff selection committee and parish committee. The Governing Body encourages both the faculty and supporting staff to participate in as many quality enhancement programmes as possible in the education sector. They are also encouraged to take up responsibilities such as presiding officers and polling assistance in parliament, assembly and local body elections and as master trainers for census and NPR. Faculty is given responsibilities as directors of a large number of forums and clubs in the college.

6. 2. 7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The Management of the college is vested in a Governing Body. The Body meets four to five times a year to monitor the overall performance and progress of the institution. In the year 2012 -13 the Governing Body met five times and following resolutions were approved.

1. Aloysian Neighbourhood Forum should conduct surveys and other programmes during the vacation.
2. Proposals for Seminars sponsored by KSCTE under auspices of ASCK and Department of Zoology on 'Women empowerment', and proposals for other seminars – discussed.
3. Discussed the thrust area for the coming academic year – eco-friendly activities- rain water harvesting, waste management, Herbal garden and Butterfly garden.
4. Monitored the allocation and utilization of funds with regard to women's hostel, women's hall and renovation of old buildings.
5. Painting of the College building before the NAAC visit.
6. Office complex for various ABC and other forums to be furnished soon.
7. Discussed on SDP, Finishing School and Bridge programmes.
8. Recruitment of faculty and staff on merit basis.
9. Assessed the progress work of the construction of boundary wall, arch and gate.
10. Off-campus to be separated from the main campus.
11. UG and PG admission details were evaluated. Minimum marks for UG and PG admission in the Management Quota was fixed.
12. The commencement of PG in M.A. in English was reported.
13. Office room for the Bursar to be completed.
14. Updating and equipping Zoology and Physics labs with the assistance of the UGC.
15. Proposals to be submitted for sports infrastructure to UGC.
16. Waste dumping near to the college campus is to be prevented – fencing to be strengthened.
17. Community College - to be introduced in the near future.
18. To apply for new UG programmes in aided and self financing stream like BBA, B.A. Malayalam and a Management Institute to be developed.
19. Instrumentation lab to be constructed.
20. Renovation works including that of the chapel to be finished as early as possible.

The Governing Body took follow up actions and ensured the implementation of the above said resolutions.

Status of implementation of resolutions.

1. Women's hostel – completed.
2. All renovation works are completed.
3. Seminars under the auspices of ASCK and Department of Zoology on 'Women empowerment' for the members of Kudumbasree and Janasree were conducted.
4. Butterfly garden and herbal garden are made
5. SDP, finishing School and Bridge programmes were organized for the students
6. Off-campus has been separated from the main campus
7. Waste dumping near to the college campus is prevented with the intervention of District authorities and fencing has also been erected.
8. Notified Vacancies to the teaching faculty and Office staff were filled as decided on merit itself.
9. Completed construction works of boundary wall, arch and main gate.

6. 2. 8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Affiliated colleges with 'A' grade accreditation can apply for autonomy. The institution is preparing to go through the third cycle of accreditation and aims at the requisite qualification.

6. 2. 9 How does the institution ensure that grievances/complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

A Grievance Redressal Cell is functioning in the college to settle the grievances of the students. It is a three-tier system consisting of the class teacher, the Head of the department and the Principal. Any matter of dispute, complaint or an act of indiscipline is reported first to the class teacher of the student concerned. Enquiries are conducted by the class teacher and the decision is reported to the student concerned. If he thinks that the judgment is not fair, he can approach the head of the department and even after he is not satisfied, he can finally approach the principal. The principal on the advice of disciplinary committee constituted for the purpose gives the final verdict which cannot be questioned further.

The grievances of employees if any are sorted out by the principal in a cordial manner maintaining the spirit of mutual respect. The staff association meetings offer a healthy platform for sorting out and solving the differences of opinions.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these.

The institution has filed cases in the High Court against the university's decision to conduct election to college union on presidential manner and for minority institution status. The Hon'ble High Court has accorded verdict in

favour of the institution. The election to the college union is now held in the parliamentary mode. The institution is granted the status of a minority institution.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If ‘yes’, what was the outcome and response of the institution to such an effort?

The institution has a structured mechanism for collecting and analyzing student feedback on institutional practices and performances. The principal collects the feedback from the students personally. Feedback is also collected from the parents (collected during annual general body meetings), from stakeholders, from the alumni, from the prospective employers and from the neighbourhood. The principal analyses the students’ feedback and the findings on the assessment of teachers are conveyed to them personally while the assessments on other matters along with the assessments on the feedback by others are presented before the staff council and the IQAC and the Governing Body for further actions.

The institution responded favourably towards many of the suggestions / opinions / demands / recommendations. Consequently there is an improvement in maintenance of discipline, attendance, teaching-learning process, ICT facilities, drinking water and other conveniences and finally in the results.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

The management encourages the faculty members to participate in orientation / refresher / workshop / seminars / conferences, as part of its quality-policy. The faculty members are directed by the management to attend as many subject related and general academic programme as to update and equip themselves for effective translation of the curriculum to the help of innovative methods and information communication technologies. The management on its part organizes orientation programmes specially for the freshers with the aim to familiarize them with the vision, mission and objectives of the institution. Animation programmes are also arranged for the teaching and non-teaching members to re-dedicate themselves for the realization of the goals aimed at by the institution. Adequate funds are secured from the UGC for organizing national seminars and workshops. Funds are also made available for competence building programmes, laboratories and for MRP. ICT training is imparted to the staff with the assistance of higher education council. Workshops on counselling, student mentoring and internal evaluation are also conducted

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

The institution aims at academic excellence through faculty empowerment programmes. In addition to the annual animation programme, competence building programmes are arranged for updating their mastery on the subjects of specialization, evolving apt innovative methods for the current teaching-

learning process, ICT efficiency, enhanced professional competency are arranged for the faculty members.

The faculty members are allowed to attend external training programmes, collaborations and consultancy activities with members of other and linkages with national and international agencies. They are given training in operating audio visual aids.

The management, the principal IQAC and the staff council recognize the achievements of the faculty members in different activities and a special mention of their achievements is done to the entire college community.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The teachers evaluate themselves through self appraisal and they are evaluated by the head of the department, the principal and the manager. This kind of evaluation is mandatory for promotion to higher grades of service. The institution keeps a detailed profile of each teacher, his involvement in the academic, administrative and research activities and participation in extension activities. In addition to the performance appraisal form prescribed by the UGC, the college has designed an appraisal form to evaluate the performance of the faculty incorporating the multiple activities in which they are involved, their skills, talents, ability personal traits research projects participation in seminars/workshops, paper presentation, innovative methods of teaching, role model and other responsibilities.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How they are communicated to the appropriate stakeholders?

A summarized and consolidated report of the performance appraisal is submitted every year by the principal to the top management. After considering the report the principal is authorized by the management to appreciate wherever excellent performance of the faculty is observed. Wherever lapses are observed the principal is directed to bring them to the notice of the staff concerned and to advise him / her to improve or to perform better.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff availed the benefit of such schemes in the last four years?

The faculty members are given motivational lectures, annual animation programmes as well as competence enhancing seminars and workshops. The staff credit society and staff co-operative society offer loan, deposits and chitty facilities. Management provides financial assistance to the supporting staff in times of medical treatment and for education of their children. The other welfare schemes available for the staff are recreational activities, residential facilities, staff tour, canteen, duty leave and salary advance on FIP leave.

6.3.6 What are the measures taken by the institution for attracting and retaining eminent faculty?

The management always strives to attract talented and qualified faculty and recruits persons having PhD or other higher degrees. Distinguished faculty members are motivated and supported by the management in their research and academic efforts by providing academic autonomy.

Retired faculty members are appointed as directors of self financing courses / distance education. They are invited to officiate as guest faculty and resource persons.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The institution avails itself of financial resources from the State Government, the UGC, the University, parents, students, alumni and the management. The college Governing Body is involved in the planning and monitoring of available financial resources. A committee headed by the principal, the bursar, two representatives from the faculty, college superintendent and head accountant manages the financial matters. The planning committee makes plans and proposals for infrastructure, class room and laboratory equipment, IT resources, learning resources and submit them to the UGC, the State Government, University and Management in time. It takes all efforts to tap optimum financial support from the above agencies. It purviews efficient and effective use of funds sanctioned by various agencies and periodical reports regarding the completion of the projects are also submitted.

The committee gives priority to the projects that benefit the college community. Many of the projects visualized by the committee in the previous year have benefited the entire college, namely, trestle work for the roof with the intention to harvest rain water, renovation of women's hall, renovation of two old blocks, hostel for the girl students, canteen facility, students motor bike shed, water purifiers with RO system, smart class room with all IT gadgets, internet facilities, LCD projects in all the departments, beautification of the campus, compound wall and arch.

The purchase committee invites open tenders for purchasing IT related gadgets, furniture, stationery materials etc. Along with the staff council, the planning committee enquires into the demands of each department and proposals are submitted accordingly.

Internal audit is conducted by the institution. The external audit is carried out by the office of the Director of Collegiate Education and finally by the AG.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

There is a mechanism for internal audit. Two auditors appointed by the Governing Body audit the expenses met from the Management, PTA and Alumni - the receipts and payments of all non- governmental resources are

audited. There is departmental level audit from the Office of the Director of Collegiate Education, Trivandrum. Also there is a random audit from the AG's Office, Trivandrum. The last audit from AG's office, Trivandrum for the period from 2007 – 08 to 2010 – 11 was carried out on 23rd September 2011. No major irregularity was observed.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/ corpus available with Institutions, if any.

Fees collected from the students of both aided and self-financing courses, financial assistance from UGC and contribution from the management are the major sources of institutional funding.

Table 6.1 - The university tuition fees of the current year (per semester)

Programme	Aided (Rupees)	Self financing(Rupees)
UG	500.00	9000.00
PG Science	900.00	20000.00
PG Arts/Commerce	900.00	17500.00

(UG programme -Admission fee – Rs. 75/-, library fee Rs. 100/-, laboratory fee for Physics, Chemistry Rs. 400/- and for Zoology Rs. 550/-, caution deposit for students of science Rs. 360/-, affiliation fee Rs.100/- game fee Rs.150/-, matriculation fee Rs.100/-) The fee structure is as per the norms of the University and State Government.

The fees collected from the students will not suffice to meet expenses of the college. The management of the college is sound in the matter of finance. The funds generated from the parish are also utilized for developmental requirements. Thus the management makes up for the deficit from its resources.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

The management does not encourage donation or capitation fee. A nominal amount is collected from the students as PTA fund at the time of admission. Students who are economically disadvantaged are exempted from making this contribution. The amount collected is spent towards developmental works.

Fees collected from the students of self financing courses is mainly used for the payment of salary of guest faculty, for materials and the balance amount is used for the developmental activities of the college. Cash prizes, endowments and scholarships are instituted by the former faculty members for the benefit of the students.

The institution receives sponsorships of PTA, Alumni and former faculty members for necessary constructional projects.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

- (a) Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

IQAC in the college was established on 01.06.2000. The institutional quality policy reflects quality management structure, strategies and processes that would enhance academic quality of the institution as desired by faculty, students, alumni and other stakeholders in line with the vision, mission and goals of the institution. It consists of 18 members and meet frequently to propose and implement academic, value added, skill oriented, staff development, mentoring, co-curricular, extension and enrichment programmes. IQAC also organizes seminars / conferences / workshops. IQAC is instrumental in ensuring quality in every aspect of the working of the institution. The IQAC requests the governing body to fix minimum percentage of mark for admission, avail necessary learning resources for effective teaching and learning, ICT and infrastructure facilities, apply for UG and PG programmes and evolve additional enrichment modules. The IQAC also frames programmes for innovative and effective teaching-learning methods, value education programmes, evaluation and result analysis. It discusses the teacher self-appraisals, performance of students and various community services.

- (b) How many decisions of the IQAC have been approved by the management/ authorities for implementation and how many of them were actually implemented?

All the decisions taken by the IQAC have been approved and implemented.

- (c) Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

The IQAC has four external members – the Bursar, two local representatives and the vice president of PTA. The two local representatives are former students and they represent the Alumni also. The administrative skills of the Bursar and the experiences of the local representatives contribute significantly for maintaining quality of higher education in the institution. They also serve as a link between the society and the institution. The Quality Advisory Committee (QAC) has external members who are eminent academicians and social activists who contribute a lot in the enhancement of quality in the institution.

- (d) How do students and alumni contribute to the effective functioning of the IQAC?

Though students are not included as members of the present IQAC, feedbacks, suggestions / contributions from the students are seriously

considered by IQAC and plans and programmes are formulated on the basis of their feedbacks and suggestions.

- (e) How does the IQAC communicate and engage staff from different constituents of the institution?

The IQAC gathers suggestions from the faculty members, departments, supporting staff, students and various committees. It meets before every staff meeting and places its suggestions, plans and programmes to ensure quality in teaching-learning process to the staff council. The staff council decides and implements the suggestions and programmes. The principal summons staff meeting of all the faculty members and briefs the members on the decisions of the staff council. The IQAC carries out internal academic audit and evaluates action plan of each and every faculty member and departments. The report is placed before the staff council.

6. 5. 2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If ‘yes’, give details on its operationalisation.

The IQAC, the staff council and HOD’s provide adequate support in the implementation / operation of the activities. The IQAC makes proposals for various curricular and extra-curricular, skill development and enrichment programmes and the staff council finalizes the programme and the HOD’s implement them in their departments ensuring quality. The action plan evolved by the departments incorporates all academic activities and other curriculum supporting activities supervised by the faculty members in charge.

6. 5. 3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If ‘yes’, give details enumerating its impact.

Office-bearers of the IQAC have attended numerous workshops / seminars on quality assurance procedures conducted by the UGC, Higher education department and the university. They impart training to the other members of the IQAC and organizes orientations and evaluation sessions for the faculty members.

6. 5. 4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

A subcommittee formed by the IQAC makes internal academic audit visits to the departments, evaluates the performance of members and the department and gives directions based on their feedback. Result analysis is also made regularly. Students’ feedback is also analyzed. The recommendations of the subcommittee are placed before the staff council.

Introduction of vocational courses, conventional courses, add on courses, extension programmes, skill development programmes have been successfully implemented in consequence to the feedbacks and suggestions from the stakeholders.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The internal-quality mechanisms are in tune with quality mechanisms proposed by various national and international quality assurance agencies. Hence academic excellence, global employability, value-based character formation and commitment to the society have been emphasized in the teaching-learning process and other programmes. Internal academic audit helps the institution to meet the quality assurance of regulatory authorities, namely, the university and the UGC.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The IQAC, on the request of the staff council conducts internal academic audit, wherein the action plan of each individual faculty, of the department, teaching learning methods and innovative methods of the faculty are evaluated.

The performance of students is analyzed by conducting internal examinations, assignments, projects, presentation of papers, attendance, university examinations, participation in extra-curricular and co-curricular activities, participation in ABC programmes and from feedbacks. Remedial classes, peer teaching and peer learning, mentoring, personal guidance and counselling and open houses help the students to amend the lapses and perform better in coming examinations.

The class teacher reviews the performance of his students and it is reported to the head of the department. The principal is informed of it by the head of the department. The class teacher then interacts with their parents and they are informed of their wards' progress in studies.

Results of internal examinations and university examinations are dispatched to the parents through SMS and letters.

The principal collects feedback from the students and parents regarding the action plan, performance of the teacher and functioning of various clubs and forums.

The above procedures have enhanced the performance of the faculty members as well as the students. Majority of the students secure 90% and above attendance, actively participate in various clubs/forums, extension and enrichment programmes and are exposed to various competitions.

The parents support the above procedures and welcome the changes.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

Since the inception of the college in 1965, the institution has been providing quality education to its stakeholders. The all round development, in the region of Kuttanad for the past five decades is ample proof of the institutions quality assurance policies.

As stated in the vision and mission of the college the institution has developed mechanisms for the achievement of academic excellence, global employability, value-based character formation and commitment to the society.

The various programmes (UG, PG programmes, skill development, extension programmes) introduced in the college communicate the institution's commitment to the internal and external stakeholders. University exam results of the internal stakeholders, progression of our Alumni to higher education (PG, B.Ed and research programmes), the percentage of our students employed within and outside the country, emerging entrepreneurs and young scientists, organic farmers, fish farmers convey the quality policies of the institution to the internal stakeholders.

Seminars and workshops involving the public and farmers, women empowerment programmes for Ayalkoottam, and Kudumbasree units, medical camps and awareness programmes for the fishermen folk, short films on the lives and activities of the farmers, health surveys, willingness of the students to donate blood and food to the needy and deserving, communicate the institution policy to the external stakeholders.

The Manager, Principal and other authorities practise open door policy and welcome the stakeholders of the college at any point of time for active discussions and feedback. The meetings of PTA and alumni help the institution gather vital information about its performance.

CRITERION VII

INNOVATIONS AND BEST PRACTICES

7.1. Environment Consciousness

The College is sensitive to concerns like climatic change and environmental issues. The college community ensures the greenness and cleanliness through eco-friendly activities.

7.1.1 **Does the Institute conduct a Green Audit of its campus and facilities?**

The location of the college was once water-logged marshy land lying below mean sea level. It has been reclaimed and reformed into the present condition and now wears lush green plantation. Tree plantation, carbon neutrality, rain water harvesting, energy conservation, 'thanalkoottam' gatherings, waste management, botanical, herbal and butterfly gardens, help to preserve its greenness. The campus is eco-friendly. Green auditing is planned under the initiative of the Zoology Department.

7.1.2 **What are the initiatives taken by the college to make the campus eco-friendly?**

Initiatives for eco-friendly activities are carried out by volunteer organizations of students such as Bhoomithrasena, National Service Scheme, Nature and Save Energy Club, Neighbourhood Forum, Aloysian Study Centre on Kuttanad and Thanalkoottam. Tree plantation, observance of days in respect to environment, seminars, essay and elocution competitions are a few of the activities carried out by Bhoomithrasena. Environment- friendly-activities of National Service Scheme comprises tree plantation – *Nammudemaram* (our tree) - project, bio-farming, herbal garden (with varieties of plants commonly used in preparation of indigenous medicine) and nature camp – *Jalatharangam*. The Nature and Energy Club concentrates its attention mainly on rain water harvesting, awareness programmes on energy conservation and water recycling. The Moncomp Materiological Station, through a study, has confirmed that an average monsoon period could yield 6,28,800 litres of rain water in the catchment area of 2400 sq.mtr of the truss work. With the co-operation of the PTA of the college, rain water harvesting has been carried out. The windmill atop the building serves as a model for tapping of conventional source of energy. Thanalkoottam is a communion of nature lovers and budding conservationists from among the students and faculty. It is a vigilant group against environmental degradation and fosters social and ecological sensitivity. The Aloysian Study Centre on Kuttanad motivates the college community and the public to revive the ecology of the yester-years of Kuttanad – free from the overdose of pesticides and chemical fertilizers. A memorandum of understanding has been signed with the Kerala Enviro Ltd., Ambalamedu, Cochin an approved organization under KPCB for collecting hazardous and e-waste from the campus. The combined activities and efforts of these forums

have transformed the campus into green, clean, eco-friendly, plastic-free and hazardous and e-waste free campus.

7.2 Innovations

7.2.1. Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

The institution activates and achieves its goals and objectives through well planned curricular, co-curricular and extra-curricular activities and various outreach programmes. The IQAC monitors the entire academic and curriculum supporting activities in the college by preparing a blue print for the activities for the ensuing academic year, ensuring quality in all activities and encouraging the faculty to adopt innovative methodology in teaching-learning and evaluation process.

Innovative Curriculum supporting practices:-

- a) **Action plan** which is evolved from each department in consonance with the directions of the IQAC offers an appropriate teaching-learning process on campus, time schedule for internal examinations, question paper setting, valuation of answer sheets and arranging open houses. Students identified as advanced learners and slow learners with regard to their skills, attitudes, achievements and performance are catered to accordingly. **Peer teaching and remedial coaching** have been given prime stress and UGC aid is availed in conducting remedial coaching for students belonging to SC/ST and minority communities.
- b) **ICT Facility-** In consequence to the efforts by the faculty to innovate and modernize teaching methods befitting to the changing scenario, the management has taken keen interest to establish a smart room and other ICT and internet facilities in the college. The College has a well established smart room equipped with all the modern audio-visual facilities. The air conditioned seminar hall with all the ICT support is well set for serious academic exercises like national seminars, workshops interfaces with eminent scientists, research scholars and entrepreneurs. The Departments equipped with overhead and LCD projectors enable the faculty for quick and easy dissemination of knowledge and to complete the syllabus in time. Internet facilities in the departments, in the net resource centre and INFLIBNET, in the library have helped the students in their pursuit of supportive materials for projects and paper presentations. These facilities have also promoted individual and independent learning to a great extent.
- c) **Continuous Evaluation:** With the introduction of CBCSS, the institution has evolved a mechanism for continuous evaluation of the students. Class tests are arranged weekly/fortnightly/monthly and scores are properly documented. Assignments, paper presentations, seminars, projects and internal exams are also conducted. The overall performance of the students is intimated to the parents.

2. Innovative Skill Development programmes:-

In addition to the practices evolved earlier and continued, the institution has introduced the following programmes to equip the student community to face life squarely in the society.

- 1. Additional Skill Acquisition Programme:** The institution has been supported by the state government to carry out Additional Skill Acquisition Programme for thirty selected students who are given training in various skills.
- 2. MATLAB:** A well equipped computational lab with MATLAB and MATHMATICA is installed to aid research and computational project works. The students of Mathematics find it useful in carrying out their research works.
- 3. Finishing School:** With the aim to enhance the efficiency and fluency of the stakeholders in English language, the institution conducts Finishing School for the final year UG and PG students using the English Language Lab during summer vacation from 2011 onwards.
- 4. Sky Up Forum:** ‘Sky Up’ is a road to excellence in studies, skills and character formation. Career oriented programmes by the forum enable the students to manage and face the challenges of life. It is a platform for the students, to develop their event management skills and to nurture and mature their personality. They manage events on campus, both academic and cultural in a professional manner.
- 5. Happy Home Making:** Girl students form majority (56%) of the student community and they are provided with various skill development facilities such as painting, knitting, embroidery, interior decoration, cooking, flower arrangement, gardening and flower making.
- 6. Aloysian Creative Unit:** It has been introduced with the aim to develop the innate talents of the students by providing lessons on painting, flower-making, bouquet-making and banner-writing.

3. Innovative Enrichment Programmes

- 1. Student Mentoring:** Besides helping the students to polish and perfect their intellectual competence, the teacher pays attention to their personal and professional growth also. One faculty member does the mentoring of 20 students. He helps the students to persevere in their studies earnestly and face life problems with confidence. A strong mentor-mentee relationship motivates the students in realizing their goals and developing a healthy life vision.
- 2. Student Counselling:** Counselling and therapy sessions are provided in the counselling centre. There are two professional counsellors and two qualified faculty members and they attend more than 100 new cases and 50 follow up cases each year. The problems such as anxiety, learning

disability, immature involvement in love affairs and addiction to alcohol and mobile phones are resolved by relaxation therapy, rational emotive behaviour therapy and meditation classes.

3. **Life Guidance Programme:** The College organizes life guidance programme for transforming the students into socially responsible, emotionally strong and culturally excellent. Animation programmes, orientation talks, legal awareness classes, memorial lectures and anti-narcotics awareness talks are led by eminent personalities.
4. **Yoga:** The institution provides yoga training to girl students. A faculty member who is a qualified trainer conducts yoga classes for them in the morning from 9 AM to 10 AM.
5. **Seminars/ Workshops/ Induction/ Orientation Programmes:** Each academic year begins with orientation programmes for the faculty as well as students. They aim at orienting the college community to the vision and mission of the institution, teaching-learning process, achievement of the goals and thus transforming the institute into a place for excellence. Induction/ bridge programmes are held for the freshers for motivating and familiarising them with the subject selected. Workshops and seminars enrich both the faculty and the students.
6. **Coaching for Competitive Exam and UGC NET:** The institution arranges coaching for PSC, Bank coaching and NET to promote carrier opportunities in government, private and banking sectors.
7. **Equal Opportunity Centre (EOC):** EOC ensures that facilities are made available to all students. The centre had conducted a women profile analysis, based on their family set up, educational background, economic conditions, and socio-cultural aspects. The survey brought to light the poor economic conditions of girl students. The institution provides financial assistance to the needy. Coaching for various competitive examinations and skill development facilities are also provided to them.

4. Innovative Extension Programmes

The institution continues its enrichment programmes introduced prior to second cycle of re-accreditation like Aloysian Study Centre on Kuttanad (ASCK), Research Lab, Electronics Workshop, Tax Consultancy Service, Soil and Water Test Analysis and Aloysian Education Extension Programme (ALEEP). The members of the faculty extend their services to the nearby schools and other institutions to deliver talks on general and specialized topics, to lead classes on communication skills, on value-education and on science topics. The recently introduced extension programmes are :-

1. **The Aloysian Neighbourhood Forum:** It is an initiative on the part of the College as a mark of its social commitment and service. As an

outreach programme, it seeks to establish a very special relationship, reciprocal in nature with the neighbouring community. It co-ordinates tuition classes for the school children, women empowerment programmes and financial support to the deserving in the neighbourhood.

2. **Rural English Language Programme (RELP):** Aiming at promoting the quality and effectiveness of English education in rural areas, the Department of English offers a platform to discuss the challenges faced by the English teachers in the neighbourhood in respect to the present English curriculum in the school.
3. **Charity Initiatives:** Students provide noon meals to the inmates of the nearby home for the disadvantaged once every week. They also support needy college mates who are sick/ hospitalized/ recommended surgery. The project 'Home for Homeless' is supported by the entire college community.

5. Innovative Eco - Friendly Activities

1. **Bhoomithrasena:** Bhoomithrasena provides an opening for nature lovers and ensures their participation in protecting the environment through various activities.
2. **Nature and Energy Club:** It gives leadership in adopting environment-friendly practices and takes necessary actions such as energy conservation, rain water harvesting, water recycling, carbon neutrality and waste management. The club organizes awareness programmes, demonstration classes and elocution competitions for successful implementation of save-energy practices.
3. **Thanalkoottam:** The Aloysian family strives to arrest further environmental degradation by creating awareness and fostering a teamwork on social and ecological issues. The idea behind the 'Thanalkoottam' is 'Each one can make a difference and a cohesive group of empowered individuals can bring about changes'. The club sensitizes the members on issues relating to environmental degradation, encourages them to be pro-active towards sustainable development in their given milieu and undertake activities to nurture and help the environment regeneration. The members of Thanalkoottam gather once a week under the green shadow of the Peral tree (*Ficus benghalensi*) in the college park and exchange their ideas on environmental issues.
4. **Efforts for Carbon Neutrality:** Internet facilities in the department and library reduce printing works. E-mail ID is provided to students and communication on important dates and events is done through mails. The teachers resort to presentations in the classes using ICT. The white board in each class room minimises the usage of chalk resulting in a chalk-dust free classrooms. New generation of pollution less and green generators are installed on campus.

5. **Hazardous waste management:** Hazardous wastes such as left over chemicals, glass pieces and other sharp objects are segregated and kept in separate boxes.
6. **E-waste management:** E-wastes are segregated and kept in separate boxes. Hazardous waste and e-waste are collected by Kerala Enviro Ltd., Ambalamedu, Cochin, an approved organization under KPCB.

7.3.1 Elaborate any two best practices which have contributed to the achievements of the institutional objectives and or contributed to the quality improvement of the core activities of the college.

A number of activities clubbed under eco-friendly and Aloysian neighbourhood have contributed to the achievement of the institutional vision, mission and objectives. They are nurtured by the institution and now deemed as the best practices.

1. Eco-friendly practices:

The once water-logged and marshy land was reclaimed to the present condition in accordance with the vision of the ancestors to house the institution. The campus is now green and eco-friendly. The Management and the entire college community have joined hands in planning and implementing eco-friendly activities in the college. The institution has been assisted by 'Global Green Community' founded in 2010, by our alumnus and an eminent environmental activist, late Antappan Ampiyayam.

Eco- friendly activities are monitored by the staff council, IQAC and the Department of Zoology and they are carried out by various movements viz., Bhoomithrasena, National Service scheme, Nature and Energy Club and Thanalkoottam.

Objectives: Kuttanad, where the college is situated is an eco-impaired region owing to excess use of pesticides and chemical fertilizers in the paddy fields, which has resulted in pollution of the region. Conscious of the casualties suffered by the people, and roused by its social commitment, the institution deeply feels its obligation to save the region and the people from this drastic fate.

- A) Sensitization of issues like environment degradation/protection / climate changes.
- B) Popularizing environmental quality enhancement initiatives.
- C) Plastic- free, eco-friendly campus
- D) Beautification of the campus
- E) Preservation of Kuttanad environment heritage.
- F) Rain water harvesting and community water supply scheme.
- G) Promoting the use of non-conventional energy resources and propagating and demonstrating ways to save energy.
- H) Bio-farming and fish farming
- I) Green auditing

The institution earnestly implements the following programmes for the realization of these objectives.

1. Tree plantation
2. Energy conservation
3. Carbon neutrality
4. Rain water harvesting
5. Waste management
6. Awareness programmes /cycle rallies
7. Literary competitions
8. Pamphlets/wall papers/news letters/manuscript magazines

The following movements/organizations under the ABC are instrumental in implementing eco-friendly practices on campus and outside, supported wholeheartedly by the students, faculty, PTA and alumni.

1. Bhoomithrasena

The Bhoomithrasena of the college, provides ample opportunities to create awareness among the students to grow as eco-friendly individuals and their responsibilities to protect the environment. There are 120 student volunteers in Bhoomithrasena. Following are the activities and achievements of Bhoomithrasena:-

a) Publishing a volume of indigenous knowledge of the region.

The Bhoomithrasena made its presence felt on campus with the collection of indigenous knowledge of Kuttanad. The members of Bhoomithrasena visited houses in the neighbourhood, met many senior citizens from all walks of life who had knowledge of the region for more than 80 years and collected information on indigenous ways of farming, fishing, conventional medicines, Kuttanad folklore and folk arts. The ASCK supported the move. The collection is published as a separate volume.

b) Observation of days.

Various days in connection with environment like World Forestry day on March 21, World Environment day on 5th June, World Ozone day on 16th September are observed and popularized by the volunteers by organizing various programmes.

c) Tree plantation

Bhoomithrasena takes initiatives to plant trees inside the campus on environment related days and in memory of the retiring staff.

d) Awareness programmes/seminars/competitions.

Table 7.1 - Awareness programmes/seminars/competitions conducted

Sl. No	Programme	Resource person/Venue	Date
1	State level seminar on 'Soil conservation'	Chakkulathu Kavilamma Auditorium, Neeraturpuram	28.2.2010
2	Seminar on 'Kuttandu Package and water system'	Sri. N. K. Sukumaran Nair, General Secretary, Pampa Parirakshana Samithy	17.7.2010
3	Talk on Environment protection and ozone layer	Late Antappan Ambiyayam /St.Aloysius College, Edathua	16.9.2010
4	Essay competitions on 'The role of government and citizens on sustainable environment'	St.Aloysius College, Edathua	5.6.2011
5	Essay competitions on 'Waste management'	St.Aloysius College, Edathua	16.9.2012

- e. **National Service Scheme** of the college also conducts various environment friendly activities such as **Nammude Maram (Our tree) project** by planting trees, **Biofarming**, **Herbal garden** and **Jalatharangam**- 'Nature camp'
- f. **Nature and Energy club:** The institution has a Nature and Energy club with 100 student members.

Table 7.2 – List of programmes

Sl. No	Title of the programme	Resource person/Venue	Date
1	Seminar on 'Clean energy options and nuclear safety'	Dr. S. B. Syamala, MG College, Trivandrum Dr. R. Harikumar, National Energy Mission.	22.2.2012
2	Elocution competition on the 'emerging importance of renewable energy sources'	St.Aloysius College, Edathua	25.2.2012
3	Demonstration campaign on solar panel, solar water heaters and bio-gas plant	St.Aloysius College, Edathua	27.1.2013

- g. **Thanalkoottam:** It is a manifestation and enactment of the idea 'each one of us can make a difference and a cohesive group of empowered individuals can bring about changes'. It is a natural platform for the nature lovers and budding environmentalists on campus, both faculty and students, to meet once a week under the shadow of the 'peral' and think aloud on arresting further environmental degradation by promoting awareness on nature

protection. The Thanalkoottam vows towards sustainable environment in the given milieu. ‘Spread awareness about the environment and undertake activities to nurture and help the environment regenerate’ is its clarion call in the present scenario.

- h. The institution practises **Carbon neutrality**, by providing e- mail ID for students and communication on important dates and events is done through mails. Internet facility reduces printing works. There is a white board in each class room which minimizes the usage of chalk. Generators causing air and sound pollution are replaced by new generation of pollution less green generators. **E-wastes** such as unused computers, electronic gadgets, CDs, unused wires, bulbs and tubes are kept in separate boxes which are then collected by an approved agency.

These activities and practices have promoted the positive approach towards nature and environment among the stakeholders. The college grooms budding environmentalists and nature lovers who seem to be the need of the hour. Several of these practices initiated in the college are implanted in their localities – bio-farming, tree plantation, plastic-free houses/villages, rain water harvesting and waste management. The wide-spread practice of these activities affirms the fulfilment of the objectives of the college.

2. Aloysian Neighborhood forum

The Aloysian Neighborhood Forum (ANF), an initiative on the part of the institution, is a mark of its social commitment and service. It is an outreach programme of the college. Along with her commitments in higher education, the college opts to look very closely at the neighborhood society and families, to establish a very special relationship that is reciprocal in nature, strives to understand the neighborhood society and collects feedback from them about the college.

The objectives

- a) To understand the neighborhood society very closely.
- b) To conduct various surveys and prepare a data bank on the nearby society.
- c) To implement development activities in the area.
- d) To promote communal harmony and national integration.
- e) To formulate and implement special programmes for various groups in the forum, namely children, youth, women, men, parents, aged, sick etc.
- f) To invite the attention of governmental and non-governmental agencies to specific challenges of the area.
- g) To assimilate the responses and reactions of the nearby society about the college in carrying out its vision and mission and achieving its stated objectives.

Aloysian Neighbourhood Forum extends its activities to the neighbourhood through ASCK, Women Empowerment programme, RELP, Community Water supply scheme, Communal harmony, offering its basket ball ground facility for the neighbourhood youth and accepting their suggestions for improvement and growth.

1. **ASCK** has been functioning in the college for more than 10 years, with the aim to pursue studies and research on various issues confronting Kuttanad. It has taken every effort to collect the literature and folklore, to make available the existing literature and to study the changes that have come over Kuttanad in yester-years for a better tomorrow. It also acts as an agency to study and promote the culture, heritage, tourism, fishing, agriculture and other economic activities.

The ASCK intervenes in the farming–agriculture and fishing activities of the neighbourhood folks by offering information and advice, soil and water testing analysis and assistance in harvesting their crops.

2. **Women Empowerment programme:** With the aim of uplifting and strengthening the womenfolk especially in the neighbourhood panchayats, a one-day women awareness programme ‘technological advances in transforming women’s lives’ was arranged for 100 women from among the ‘Kudumbasree’ and ‘Ayalkoottams’. The programme was sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE), and it was titled as ‘Fisheries-an Ocean of Options for Women Empowerment’. The participants selected from more than 500 applicants, in and around the college neighbourhood were given training on cage culture practices of pearl spot and manufacture of value added fish products. Dr. K. G. Padmakumar, Asso. Director, Regional agricultural Research Station, Kumarakom and Dr. K. K. Balakrishnan, Principal Scientist (Rtd.) were the resource persons. “Energy conservation and waste management in domestic sector” second in the women empowerment programme series was also organized for another batch of neighbourhood women folk. The college intends to conduct more programmes in future to help the women to improve themselves in their socio-economic status.
3. **RELP** The institution has realized its responsibility to improve the communication skills and English language fluency of the neighbourhood school children. The Department of English has taken the initiative and with the support of the English teachers of the neighbouring schools adopt measures to better their English. The students also contribute by engaging tuition classes for the school children belonging to the neighbourhood.
4. **Service to the Pilgrims** Pilgrims from all over India throng in May into this holy land during the feast of St. George, the patron of the St. George Forane Church, Edathua. The college provides facilities for vehicle parking and lodging. The institution also provides vehicle parking and other conveniences to thousands of pilgrims who flock to the famous ‘Chakkulathukavu’ temple. Thus the college acts as a catalyst for devotional help to the pilgrims in visit; the church and temple irrespective of their religion, caste and creed. The youth in the neighbourhood also render their service in this regard.
5. **Community Water Supply Scheme** It is the sincere intention of the institution to provide drinking water to the neighbourhood people also from the stored rain water. It is understood that an average monsoon period could

yield 6,28,800 litres of rain water in the 'catchment area' of 2400 sq.mtr of the truss work.

The PTA of the College, has supported rain water harvesting by constructing a rain water storage tank of 100000 litre capacity.

6. **Availing ground facility to the neighbourhood youth.** The institution supports the neighbourhood youth by permitting them to make use of the facilities of the College Basket ball Court in the evening.
7. **Reactions/responses/feedback of the neighbourhood caters to the growth of the college.** The interactions with immediate neighbours help in the growth and achievement of the institution. Their responses/reactions/feedback are collected by the principal, and the Aloysian Neighbourhood Forum. They are analysed and measures are adopted by the institution. Suitable new courses are applied for. Extension and Enrichment programmes are also initiated.

The institution plans to organize surveys on economical, social and health practices of the neighbourhood with the aim of securing financial and other assistance from the Govt. and non governmental agencies. Computer literacy to women in the neighbourhood is also contemplated in connection with women empowerment programme.

The activities co-ordinated by Aloysian Neighbourhood Forum prove the unflinching commitment of the institution to the neighbourhood people. The students, during the course of study in the college, get opportunities to interact and involve in the developmental tasks of the neighbourhood. The institution's vision and mission to create socially committed and responsible citizens is also accomplished through the Aloysian Neighbourhood Forum.

POST ACCREDITATION INITIATIVES

(2008 – 2013)

The institution has been striving towards excellence in all academic and supportive activities in the college, aiming at the holistic development of the stake holders and translating the vision into a concrete reality, since the last accreditation. The peer team appreciated the effort made by the college in offering quality-education consistent with its mission in an educationally and economically backward area of rural Kuttanad.

In recognition of its meritorious and committed service to the society, especially to the people of Kuttanad for the past 49 years, the institution has been adjudged the best college in Kerala for 2013, by the PT Chacko Foundation, Alappuzha.

Employment oriented / conventional courses in M.A. English and M.Sc. Zoology have commenced. Owing to the high demand for the UG course, B.Com with Computer, the number of seats for it has been enhanced from 35 to 60. The management has submitted proposals for introducing B.Sc. in Physical Education – Clinical Exercises & Practices (UGC sponsored) and Tourism & Health Allied Sciences (UGC sponsored), B.Sc. Electronics and Computer Maintenance (Self financing), B.A Malayalam (Aided) and M.Sc. Zoology (from Self financing to Aided). Proposals for seven Add -on courses (Electronic PCB Designing and Fabrication, Yoga and Fitness Management, Hospital Administration, Communication Skills and Employability Techniques, Capital Market, Entrepreneurship Development and Supply Chain & Logistic Management).have also been submitted to the University for approval-

The Women Cell of the college has taken initiatives to organise a yoga club to give yoga practice to the girl students with one of the faculty members as the trainer. The Happy Home making programme already functioning on campus now includes painting, knitting, embroidery, clay modelling, carving, interior decoration, cooking, flower arrangements, gardening and hospitality for the development of the artistic skills of the girl students.

The soul of research of the institution is on high spirits as more than 60% of the faculty is actively involved in research work, minor and major projects. An amount of Rs.16,88,000/- has been sanctioned for various research projects. ‘The Research Fraternity’ introduced in this spell has vitalised the research culture on campus and has boosted the research aspiration of the scholars.

The optimal use of the infrastructure enables the institution to house all the streams, departments, laboratories, offices of the ABC and ASCK. The modernized and air- conditioned Seminar Hall and Smart Room, the renovated and renamed Dr. P.T. Joseph Block and Rev. Fr. Cyriac Kottayil Block, the well furnished ABC office block, the Chapel and other student facility centres, the Compound wall and the Arch are a few of the infrastructure initiatives that the management has undertaken since the last reaccreditation.

In compliance with the recommendations of the previous NAAC Peer team, the institution has constructed a hostel named 'Marian Hostel for Women' with the financial assistance from the UGC (Rs.80 lakhs) and the management (Rs.85 lakhs) for providing board and lodging to 50 girl students.

Top priority is given to learner-centred pedagogy by making available all learning resources and modern technology namely Smart room, Seminar hall, Broadband connections, NRC, INFLIBNET, N'list, LCDs and by conducting seminars, orientation programmes, OJT, study tours, entrepreneurial visits and mentoring. The institution has widened the networking with a number of beneficiaries in various fields facilitating practical training and improving job prospects for the students.

Mentoring and Counselling, value - education and life guidance programmes are a blessing to the institution in guiding the stakeholders to righteous ways and maturity of character.

The installation of MATLAB and MATHEMATICA is an inspiring step especially for students with aptitude for an in-depth study in computational research and image processing technology.

The faculty members have already entered into academic collaborations with institutions of higher learning like University of Primorska, Slovenia, University of Kragujevac, Serbia, Bharathiyar University, Trichy, Cochin University of Science and Technology, S T Hindu College in Nagercoil, Karpagam University, Coimbatore and Kerala University. As part of the academic collaboration, Prof. Bill Sheils and Mrs. Sarah Sheils, Department of Economics, University of York, UK visited and interacted with the academic community. The institution has also collaborations with research centres, industrial centres and marine centres. The students visit these centres as part of their OJT programme and the scholars from these are invited to the institution to interact with students.

The library automation which was half-way at the time of peer team's visit (2nd cycle in 2006-07) has been completed. The institution now plans to switch over to KOHE system by installing D-Space digital library software, which has many sophisticated advantages, to render the services of the library more beneficial to faculty and students. Temporary staff is appointed to enhance the efficiency.

The Career Guidance Cell gives students utmost service in awareness programmes, displaying Career opportunities in various sectors and forthcoming vacancies and coaching for various competitive examinations (UPSC, PSC and Bank). The Placement Cell has tie-ups with certain foreign companies and arranges campus placement programmes for the final year UG and PG Commerce students.

NET coaching is conducted in the college; Semester III and IV PG students avail themselves of this opportunity.

'Better English', a programme designed and carried out by the Department of English helps the students to be English - friendly. Additional lessons in Grammar, Communication Skill and Practices enable them to improve their proficiency in the English language.

Another initiative on the part of the Department of English - RELP, focuses on redeeming the hazards in teaching English in schools. A systematic approach to

teaching of English giving importance to spelling, vocabulary and grammar has been suggested and with the help of the college students tuition classes are arranged for the school students.

A Standard swimming pool is our dream. Owing to insufficient funds it has not materialised. But now our proposal has been accepted by the UGC. However, the students from the college have fared better in the University and Inter university aquatic championships. The college looks forward to grooming more national and international aquatic champions in the near future.

The EOC in the college has done a tremendous work of carrying out a comprehensive survey on the girl students focusing on the educational and economical background of their families. It is worth mentioning that most of the findings of EOC have been implemented on campus.

The institution has been chosen by the State government as a centre for Additional skill Acquisition Programme (ASAP). A batch of 25 students is given training on various skills.

‘Aloysian Neighbourhood’, a major initiative towards community upliftment, co-ordinates a number of programmes for the empowerment of the women folk, the youth and school students. Two such programmes organised under the auspices of ASCK and Dept of Zoology had an overwhelming participation of 100 women selected from more than 500 applicants belonging to the Kudumbasree and Janasree units of the neighbourhood.

The community Water supply scheme for the neighborhood is a great leap of the institution towards creating a healthy society and protecting it from water-borne diseases. A rain water storage with the capacity of One lakh litres is instrumental in doing this benign service.

The institution is working on software for monitoring students’ progression wherein the students can register and update their progression in studies and career. To this purpose phone numbers (mobile and land line) and e-mail addresses of students are collected.

The college has already a structured mechanism for obtaining feedback from students and parents. A good number of alumni are in rapport with the Principal. Software on the above line is planned wherein the Stakeholders, Peers and Employers can register their responses/suggestions on the functioning of the institution and on its future course.

The office administrative system has been partially computerized. Software for various office purposes is being generated. Renovation work of the Office is under progress.

To mark the bi-centenary celebration of St. George Forane Church Edathua (1810-2010) and in preparation of the institution’s Golden Jubilee (1965-2015) the Aloysian project (a ten-pronged programme) towards excellence - ‘EXCELENCIA’ was launched by Dr.P.J. Abdul Kalam, Former President of India on 15th October, 2010. The Aloysians have laboured hard for the materialization of the project and now they stand jubilant turning energy into synergy.

The eco-friendly activities and the Aloysian Neighbourhood programmes have changed the face and added a new phase to the institution's growth and course. These practices marked as the best two practices of the institution have helped in beautifying the campus, making it green, plastic-free, eco-friendly and above all neighbour-friendly.

CONCLUSION

The institution has been very earnest in its endeavour in imparting quality education to the stakeholders, arousing a spirit of research in them, developing their soft, creative and entrepreneurial skills, infusing noble values, enriching civic responsibilities and transforming them into skilled and worthy global citizens. The optimal utilization of all the available teaching-learning resources, infrastructure, learner-friendly campus and IT has transformed the campus into a premier centre of learning. From the humble state – *'The site for the College is under water'* – as reported by the site inspection commission– the institution has emerged into a flourishing centre for learning and maintaining a healthy academic ambience. The institution has successfully undergone the accreditation and re-accreditation by the NAAC, got placed in 'Three Star' and 'B+' levels respectively and now is gearing up for the third cycle of re-accreditation. On the threshold of the Golden Jubilee Celebration in 2014 – 15, the entire Aloysian Community is looking forward to a year of blessings and re-dedication to its vision and mission.

**EVALUATIVE REPORTS OF
THE DEPARTMENTS**

DEPARTMENT OF ENGLISH

1. **Name of the Department** : English
(Language & Literature)
2. **Year of establishment** : B.A. English (2001)
M.A. English (2012-2013, self financing)
3. **Names of programmes offered:**
 - 1) B.A. English Model II, Teacher of English in Lower Classes
 - 2) M.A. English Language and Literature (Self Financing)
4. **Names of interdisciplinary courses and the departments/units involved :**
The department offers an open course in English – ‘English for Careers’.
Details of Students attending the open course from other departments.

Year	Dept. of Eco.	Dept. of Com.	Dept of Zool.	Dept of Maths	Dept of Phy.	Dept. of Chem.	Total
2010-11	10	3	6		2	5	26
2011-12	6	3			1	5	15
2012-13	Nil	4	3	1	8	3	19

5. **Annual/semester/choice based credit system Programme wise :**
 - I) B.A. English (Model II Vocational):- Semester till 2009, CBCSS from 2009 onwards.
 - II) M.A. English:- CBCSS (2012-2013 Admission)
6. **Participation of the department in the courses offered by other departments:-**
B.A. English, Semester V students are allowed to choose the course of their interest from among the courses offered by other departments, known as OPEN COURSE.
Details of B.A. English students attending Open Courses offered by other departments:

Academic year	Dept of Economics	Dept of Commerce	Dept of Zoology	Dept of Maths	Dept of Physics	Dept of Chemistry	Dept of Ph.Edu.
2010-11	6	1	7	1	2	9	
2011-12	10	2	-	1	-	5	
2012-13	11	6	4	-	-	3	2

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.** Nil
However, the Semester V students undergo an On-the-Job Training programme. An MOU is executed with the neighbouring schools where the students carry out their teaching practices. From 2012-13 onwards the university has directed them to undertake a project work instead of the OJT.

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts:-

Year	Sanctioned Posts	Associate Professors	Assistant Professors	Guests	Remarks.
2012-13	7	2	5	4	M.A. English sanctioned in the self financing stream)
2011-12	7	2	2	4	
2010-11	7	3	2	4	
2009-10	7	5	1	1	

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M. Phil., etc):

Name	Qualification	Designation	Specialization	No. of years Experience (as on 31.3.13)	Remarks
Sri. Sebastian Joseph	M.A., M.Phil.	Associate Professor	Modern Drama	30 years	Expired While in Service in 2009
Sri. Jacob Xavier	M.A.	”		30 years	Retired in 2010
Smt. Susan Cherian	M.A.	”		29 years	Retired in 2011
Smt. Joyce Joseph	M.A.	”		26 years	
Sri. Sajeev Joseph	M.A.	”		25 years	
Sri. Varghese P.J.	M.A., B.Ed	Asst. Professor		18 years	
Ms. Neethu Mary Tomy	M.A.	”		1 ½ years	
Smt. Gem Cherian	M.A.	”		3 months	
Smt. Sherin Mathichiparampil	M.A.	”		3 months	
Sri. Paul Jacob	M.A. M.Phil	”	Indian Fiction	3 months	

11. List of senior visiting faculty:-

- i) Prof. Mathew George (Guest Lecturer)
- ii) Prof. Jacob Xavier (Guest Lecturer)
- iii) Prof. Oommen Mathew (Chairman, State Farming Corporation, Kerala State, expired on 20-07-2013)
- iv) Prof. P.S. Sebastian
- v) Prof. Susan Cherian
- vi) Sri. P.S. Nandakumar

Senior faculty from other Colleges

i) Dr. Sujatha (D.B. College Pamba)

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Programme	% of Lecture handled
2012-13	B.Sc. EEM, Common course- English	100%
	B.Com. Computer- Common Course- English	100%
2011-12	B.A. English Core Course + Common Course	40%
	B.Sc. EEM., Common Course - English	100%
	B.Com. Computer –Common Course-English	100%
2010-11	B.A. English- Core Course+ Common Course	40%
	B.Sc. EEM., Common Course – English	100%
	B.Com. Computer – Common Course-English	100%
2009-10	B.A. English- Core Course + Common Course.	20%
	B.Sc. EEM., Common Course	100%
	B.Com Computer – Common Course	100%
2008-09	B.A. English Core Course + common Course	20%
	B.Sc. EEM., Common Course- English	100%
	B.Com. Computer – Common course - English	100%

13. Student – Teacher Ratio (programme wise)

Course	2009-10	2010-11	2011-12	2012-13
B.A	20:7	15:7	16:7	26:7
M.A	-	-	-	12:3

14. Number of Academic support staff (technical) and administrative staff; sanctioned and filled;

Sanctioned : 1

Filled : 1

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/M.Phil/PG.

Sl. No.	Name	PG	M.Phil
1	Smt. Joyce Joseph	M.A. English.	-
2	Sri. Sajeev Joseph	M.A. English	-
3	Sri. Varghese P.J.	M.A. English	-
4	Ms. Neethu Mary Tom	M.A. English	Reg. for Ph.D.
5	Ms. Sherin Mathichiparampil	M.A. English	Reg. for Ph.D.
6	Ms. Gem Cherian	M.A. English	-
7	Sri. Paul Jacob	M.A. English	M.Phil
8	Ms. Meera C.S	M.A. English	-
9	Ms. Aiswarya	M.A. English	-
10	Ms. Chithra	M.A. English	-
11	Ms. Preetha	M.A. English	-

12	Prof. Mathew George	M.A. English	-
13.	Sri. Nandakumar P.S.	M.A. English	
14	Ms. Haynes John Varghese	M.A. English	
15	Sri. Justin Philip Cherian	M.A. English	

16. Number of faculty with ongoing projects from a) National a) International funding agencies and grants received:

No of Minor research project	:	1
Title	:	‘Linguistic Channelization of the undergraduate: Analysing the relevance of the syllabus of the CBCSS open course programme ‘English For Careers’ of the Mahatma Gandhi University’
Funding agency	:	UGC
Amount Sanctioned	:	Rs.50,000/-)

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: One. (Details – para. 16)

18. Research Centre/facility recognized by the University: Nil.

19. Publications:

Number of publications : 3

20. Areas of consultancy and income generated: Nil

21. Faculty as members in a) National Committees b) International Committees c) Editorial boards; Nil

22. Student projects;

All the Semester VI students undergo Teaching Practice (As part of On the Job Training) in the nearby High Schools. They have to submit a Project report under the guidance of the faculty.

From 2013 onwards, all the Semester VI students submit a dissertation under the guidance of an internal guide and it is then valued by an external examiner.

23. Awards/ Recognitions received by faculty and students:

Smt. Gem Cherian - The award of Excellence with a cash prize of Rs. 5000/- by The Reachout Foundation, USA for presenting the best innovative paper “Linguistic Channelisation : Modern ICT Trends and Traces” in the UGC sponsored national seminar at SNM College, Maliankara.

Miss Karthika V. – First Prize - ‘A.D Sheroff Memorial Elocution Competition’ (English) 8th Dec. 2011

Miss. Sherry J. Philip – 2nd Prize – ‘A.D Sheroff Memorial Elocution’ - (Malayalam) 8th Dec.2011

Master Rickson Oommen – Third prize – Elocution – S.B. College Changanacherry – 24th Jan 2012

Master Rickson Oommen – Second prize – Elocution- YMCA Thiruvalla – 4th Feb. 2012

Master Rickson Oommen – Second prize – Elocution – YMCA Pathanamthitta (11th Feb. 2012)

Ms. Princy Varghese & Ms. Bincy Baby– Second prize in the Inter-departmental quiz competition ‘Mind maze’ – S.A. College – 15 March, 2012

Ms. Nair Divya Mahadevan – Best student - Cash prize awarded by Rajiv Gandhi Study Forum – 2011

Ms. Karthika V. – Best student - Cash prize awarded by Rajiv Gandhi Study Forum – 2012

Master Rickson Oommen – Third Prize – Elocution competition held at St. Joseph’s College, Alappuzha - 15th January 2012.

Master Rickson Oommen & Ashly Joseph – Second prize – Adv. Vinod Kumar Memorial Inter collegiate Debate Competition held at St. Aloysius College on 16th January 2013.

Master Rickson Oommen – Second prize in the debate competition held at Titus College, Thiruvalla on 5th September 2013.

Ms. Gopika R. has secured the PTA Proficiency prize in 2013

Ms. Mary Selex has secured the Prof. Mathew George Endowment 2013

Ms. Princy Varghese secured Prof. Marymma Joseph Endowment in 2013

24. List of Eminent academicians and scientists/visitors to the department:

Dr. Ambalapuzha Gopakumar, S.D. College Alleppey – 30-07-2009

Dr. Vanaja V., N.S.S. College Changanacherry - 17-09-2010

Dr. Indulal R, S.D. College, Alleppey 20-12-2010

Dr. C.C. Thomas (Research Guide), S.B. College Changanacherry – 24-08-11

Dr. Sujatha, N.S.S. College, Changanacherry - 2011

Dr. Vinod V.B. NIT Trichy 19-12-2011

Dr. Sandhya Pai – St. Joseph’s College, Alleppey

Dr. Gigy Joseph – S.B. College, Changanacherry (14-12-2012)

Fr. Jose Mullakkary- S.B. College, Changanacherry (11-12-2013)

25. Seminars/ Conferences/ Workshops organized & the source of funding.

Number of Regional Seminars : 3

Number of Workshops : 2

Source of funding : Funded by the college

26. Student Profile programme/course wise:

Programme year	Application received	Selected	Enrolled		Appeared	No. of Students Passed	Percentage
			M	F			
2012-15	CAP	33	7	26	-	-	-
2011-14	CAP	29	11	18	-	-	90%
2010-13	327	26	3	15	-	-	94%
2009-12	303	31	7	20	25	21	84%

27. Diversity of students:**B.A. ENGLISH MODEL II**

Year	% of students from the same state	% of students from other states	% of students from abroad
2012-13	100%	Nil	Nil
2011-12	100%	Nil	Nil
2010-11	100%	Nil	Nil
2009-10	96%	4%	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services etc.,?

NET	: Nil
SET	: 3
TET	: 2 (Teacher Eligibility Test)
Civil Services	: Nil
Defense Services	: Nil

29. Student Progression:

Year	Enrolled	Appeared	Passed	UG to M.A.	UG to B.Ed.	P.G. to M.Phil	PG to Ph.D	Employed
2011-12	27	25	21	37%	30%	-	-	-
2010-11	15	14	10	36%	21%	-	-	-
2009-10	20	20	7	20%	15%	-	-	5%
2008-09	23	19	13	35%	13%	-	-	8%
2007-08	23	23	14	57%	21%	-	-	9%

30. Details of Infrastructural facilities:-**1. Library**

2. Internet facilities for the Staff & students: The staff room is equipped with the Broadband network facility and it is made available to students free of cost. There is provision for internet facilities in the library also.

3. Rooms with ICT facility :- The smart class room with ICT facility is used for engaging English classes also.

31. Number of students receiving Financial assistance from college, university, government or other agencies :**Scholarships/ grant/ stipend.**

Year	KP CR	SC/ST Stipend	Fisheries Grant	Backward Student Scholarship	Conveyance Allowance	Post metric	Single Girl child
2011-12	12	4	8	2	2		
2010-11	9	4	12	2	2	-	-
2009-10	6	2	9	2	2	-	-
2008-09	4	-	6	2	2	-	-

32. Details on student enrichment programmes: special lectures/workshops/seminar –with external experts.

1. “Trends in Modern Poetry” – Dr. Mathew Joseph, Catholicate College, Pathanamthitta – 22nd August, 2008
2. “Folklore in Kuttanad”- Dr. Ambalapuzha Gopakumar, S.D. College Alappuzha – 30th July, 2009
3. “Trends in Indian Fiction” – Dr. Vanaja V. N.S.S. College, Changanacherry – 17th September, 2010
4. “Glimpses of Shakespeare’s Tragic World” – Dr. C.C. Thomas, S.B. College, Changanacherry, 24th August, 2011
5. “Post Colonialism” – Dr. Sandhya Pai, - St. Joseph’s College Alappuzha, 04th October, 2012

33. Teaching methods adopted to improve student learning:

The department adopt the following methods to improve student learning

- 1) Remedial Coaching for the SC/ST, slow learners and minority students
- 2) ICT classes
- 3) Peer Teaching, Peer learning
- 4) Continuous evaluation
- 5) Seminars/workshops/assignments/projects

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- 1) Providing food to the inmates of ‘Sneha Bhavan’ – a Home for the Destitute – once a week
- 2) Visit to ‘Divine Providence Home’ – a home for the physically handicapped children – contribution- clothes and cash.
- 3) Conducts Study tours every year.
- 4) Our students are members of NCC and NSS – help them to develop social responsibility and commitment to the society.
- 5) Faculty members are in charge of Women’s forum, Aloysian creative unit, NCC (Army and Navy), SKY-UP, QUIZ Club, NSS and Literary club.

Extension Activities

RELP - Rural English Literacy Programme –

- 1) Organizes “Interface Programme” for the English Teachers of the College, Higher Secondary Schools and High Schools.
- 2) “Better English” (as part of RELP) : For improving Grammar, the communication and writing skills.
- 3) English Literacy Programme, with the assistance of Social organizations and Local Administration.
- 4) Movie Club to screen English Classic films.
- 5) Conduct Elocution, Debates in English.

35. SWOC analysis of the department and Future plans :

<p>STRENGTH</p> <ul style="list-style-type: none"> • Inter disciplinary nature of classes • Video library • Spoken English course • PG Department (Self financing) MA Course • Dynamic Former Students Association (- English Graduates of St.Aloysius College -EGOSAC) • Short term course on Better English – “Communication Skills and Employability Techniques” • Open course in English for careers • RELP • Minor Research Project (UGC) • Ample exposure for the students in inter-collegiate competitions. • Dedicated faculty • Faculty members are engaged in research work leading to PhD. 	<p>WEAKNESS</p> <ul style="list-style-type: none"> • Inadequate Number of reference books in the P G library • Marginal increase in the number of students for common course leads to inadequacy in infrastructure facility.
<p>OPPORTUNITIES</p> <ul style="list-style-type: none"> • The vocational course equips many students for careers in the educational sector. • Coaching for various government jobs • Coaching for the students to face interviews • Open course provides multidisciplinary interaction 	<p>CHALLENGES</p> <ul style="list-style-type: none"> • Economically backward students • Lack of proficiency in English language of the students at the entry level.

Future Plans

- To convert Model II B.A English (Vocational) to the conventional BA English (Language and Literature) course.
- To provide NET/SET coaching
- To improve the Department Library
- To revive the certificate course in Communicative English
- To conduct English literacy classes among women folk in neighbourhood

DEPARTMENT OF ORIENTAL LANGUAGES

1. **Name of the Department** : Oriental Languages
2. **Year of Establishment** : 1965
3. **Names of programmes / courses offered (UG, PG, M.Phil. Ph.D. Integrated Masters, Integrated Ph.D etc)**
The department conducts second language classes only.
4. **Names of Interdisciplinary courses and the department / units involved:** NA
5. **Annual / semester / choice based credit system (Programme wise):** CBCSS.
6. **Participation of the department in the courses offered by other departments:**
NA
7. **Courses in collaboration with other universities, Industries, foreign institution etc:** Nil
8. **Details of courses / programmes discontinued (if any) with reasons:** Nil
9. **Number of teaching posts.**

Name of Post	Sanctioned	Filled				
		2008-09	2009-10	2010-11	2011-12	2012-13
Professors						
Associate Professors		3	2	1		
Assistant Professors					1	1
Guest Faculty		-	1	2	2	2

10. Faculty profile with name, qualification, designation, specialization (D.Sc / D.Litt / Ph.D / M.Phill etc)

Name of the Teacher	Qualification	Designation	Specialization	No. of years of experience	No. of Ph. D students guided for the last 4 yrs
Smt. Thankamma Thomas	MA, M.Phil	Associate Professor	M.Phil	33	
Dr. Santy Joseph	MA,B.Ed, Ph.D	Assistant Professor	Ph.D	1.5	
Smt. Mariamma C.A	MA, B.Ed	Guest Lecturer		13	
Sri. Binu Thomas	MA, B.Ed	Associate Professor		5	
Sri. Varghese Kurian	MA, B.Ed	Guest Lecturer		4	
Dr. Saritha K.R	MA, Ph.D	Guest Lecturer (NET Qualified)		2	
Smt. Jomol Jose	MA, B.Ed, NET	Assistant Professor		18 (School teacher)	

11. List of senior visiting faculty :

- Dr. Jolly Jacob, Reader, Mar Ivanios College, Thiruvananthapuram.
- Dr. E. Sardarkutty, Reader (Rtd), University College, Thiruvananthapuram.
- Mr. M.S. Vinod, H.S.S.T, Govt.H.S.S, Ayaparambu.
- Dr. James V, H.O.D, Dept. of Malayalam, S.B. College, Changanacherry.
- Dr. Saradakutty, Dept. of Malayalam, D.B. College, Pamba, Parumala.
- Dr. V.R Jayasree, Reader, Dept. of Malayalam, N.S.S College, Changanacherry.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : 50%**13. Student – Teacher Ratio (Programme wise) : 70:1****14. Number of academic support staff (technical) and administrative staff, sanctioned and filled : Nil****15. Qualifications of teaching faculty with D.Sc/D.Litt./Ph.D/M.Phil/PG.**

PG – 2, M.Phil – 1, Ph.D- 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, UGC, DBT, ICSSR etc and total grants received : Nil****18. Research Centre / facility recognized by the university: Nil****19. Publications:**

Number of publications - 6

- Number of papers published in per reviewed journals (national / international) by faculty and students. : Nil
- 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) : Nil
- Monographs, Chapter in Books, Books Edited, Books with ISBN / ISSN numbers with details of publishers, Citation Index, SNIP, SJR, Impact factor, h-index : Nil

20. Areas of consultancy and income generated : N.A**21. Faculty as members in**

a) National Committees b) International Committees c) Editorial Board : Nil

22. Students Projects

- Percentage of students who have done in-house projects including inter departmental / programme : Nil
- 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:

: Nil

24. List of eminent academicians and scientists / visitors to the department :

- Dr. Jolly Jacob, Reader, Mar Ivanios College, Thiruvananthapuram.
- Dr. E. Sardarkutty, Reader (Rtd), University College, Thiruvananthapuram.
- Mr. M.S. Vinod, H.S.S.T, Govt. H.S.S, Ayaparambu.

- Dr. James V, H.O.D, Dept. of Malayalam, S.B. College, Changanacherry.
- Dr. Saradakutty, Dept. of Malayalam, D.B. College, Pamba, Parumala.
- Dr. P.V. Viswanathan Nampoothiri, Dept. of Sanskrit, Baselius College, Kottayam.
- Dr. Jayasree V.P, Dept. of Malayalam, NSS College, Changanacherry.

25. Seminars / Conferences / workshops organized & the source of funding

- a) **National** : Nil
b) **International** : Nil

26. **Student profile programme / course wise** : NA

27. **Diversity of students** : NA

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services etc.** : N.A

29. **Student Progression** : NA

30. Details of infrastructural facilities:

- **Library** - No separate library for the department.
- **Internet facilities for staff & students** - A computer with internet facility is available in the Department.
- **Class rooms with ICT facility** - The department makes use of the ICT facility available in the smart room.
- **Laboratories** - Nil

31. **Number of students receiving financial assistance from college, university, government or other agencies** : N.A

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

- Dr. Saradakutty, Dept. of Malayalam, D.B. College, Pamba, Parumala lectured on 'Malayalam Cinema' 28.10.2008.
- Dr. James V., HOD, Dept. of Malayalam, S.B. College, Changanacherry lectured on 'Modern Poetry' 20.10.2009.
- Mr. M.S Vinod, HSST, Govt. HSS, Ayaparampu lectured on 'Ashante Seetha' 08.10.2008.
- Dr. P.V Viswanathan Nampoothiri, HOD, Dept. of Sanskrit, Baselius College, Kottayam lectured on 'Koothu, Koodiyattom and Kathakali' 22.12.2011.
- Dr. V.R. Jayasree, Reader, Dept. of Malayalam, N.S.S College, Changanacherry lectured on 'Modern Shortstories in Malayalam' 4.12.2012.
- Dr. Ajayan, Dept. of Malayalam, S.D College, Alappuzha lectured on 'Shreshtabhasha Charithravazhikaliloode'.
- Dr. V.V Georgekutty, Reader and Research Guide, St. Thomas College, Pala lectured on 'Feminism in Hindi Literature' 15.10.2008.
- Dr. Rosily N. Joseph, HOD, Dept. of Hindi, Devamatha College, Kuravilangad lectured on 'Comparative Literature' (Malayalam and Hindi) 01.02.2012.
- Dr. Jesty Emmanuel, HOD, Dept. of Hindi, Alphonsa College, Pala lectured on 'Post Modernism' 03.01.2013.

33. Teaching methods adopted to improve student learning:

Peer teaching, Assignments and Seminars.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

- Mahatma Gandhi University Exam Board Chairman (Malayalam)– 2009 to 2011
- Mahatma Gandhi University Exam Board Deputy Chairman – 2006 to 2008
- Lions Club Member
- Staff Association Women Representative – 2009

35. SWOC analysis of the department and future plans:

STRENGTH <ul style="list-style-type: none"> • Language enrichment programmes 	WEAKNESS <ul style="list-style-type: none"> • Lack of UG and PG programmes in Hindi and Malayalam.
OPPORTUNITIES <ul style="list-style-type: none"> • Introduction of UG and PG programmes in Hindi and Malayalam 	CHALLENGES <ul style="list-style-type: none"> • Time-constrained semester system • Flood

FUTURE PLANS

- To publish a manuscript magazine
- To organize a 'Folklore Club'
- To collect articles related to culture and heritage.
- To organize 'Akshara Slokam Club'.
- To attain concurrence for UG and PG programmes in Hindi and Malayalam.

DEPARTMENT OF PHYSICS

1. **Name of Department** : PHYSICS
2. **Year of Establishment** : B.Sc. (Physics) in 1981
M.Sc.(Physics) in 1999
B.Sc. (EEM) Self Financing in 2001
3. **Names of Programmes/courses offered;**
U.G: 1) B.Sc. - Physics core (Mathematics & Chemistry Complementary)
 2) B.Sc. in Electronic Equipment Maintenance (Self Financing), a two Main programme: Electronic Equipment Maintenance and Physics (Core) - Mathematics and Computer Applications (Complementary)
P.G: M.Sc. (Physics with Electronics specialization)
4. **Names of interdisciplinary Courses/ Departments involved:**
 Amateur astronomy and Computer Hardware & Networking are offered by the department as open courses at the degree level during Semester – V

Students from all other departments attend the course;

Academic year -	Dept. of Economics	Dept. of English	Dept. of Zoology	Dept. of Maths	Dept. of Chemistry	Dept. of Commerce (model I & II)
2010-11	3	3	6	4	3	36
2011-12	2	-	3	6	1	41
2012-13	2	-	3	6	1	41

5. Annual/semester/ CBCSS Programme wise

- U.G: 2007-2008 : Annual Scheme
 2009 onwards : CBCSS
 P.G: 2007 onwards : Semester system

6. Participation of the department in the courses offered by other Departments:

Academic year -	Dept. of Economics	Dept. of English	Dept. of Phy Edu	Dept. of Maths	Dept. of Chemistry	Dept. of Commerce
2010-11	3	5		6	5	9
2011-12	7	1	2	3	9	27
2012-13	5	1	3	3	9	20

7. **Courses in collaboration with Universities/ industries, foreign institutions:** Nil.
8. **Details of courses discontinued (if any) with reasons:** Nil.

9. No. of teaching posts

Year	Sanctioned posts	Professors	Associate Professors	Assistant Professors	Guest	Remarks
2007- 08	7	Nil	10	Nil	Nil	
2008- 09	8	Nil	9	Nil	Nil	Smt. Annamma P.A (retired)
2009- 10	8	Nil	8	Nil	Nil	
2010- 11	8	Nil	8	Nil	Nil	Smt. Kochurani Michael (retired)
2011- 12	8	Nil	7	Nil	Nil	Sri. Jacob Koshy (retired)
2012- 13	8	Nil	6+1	2	Nil	Newly appointed

10. Faculty Profile with name, qualification

Name	Designation	Specialization	Years of service	Ph.D. students guided	Remarks
Dr. Varghese Mathew	Associate Professor	Electronics	32	Nil	HOD
Smt. Annamma P.A	Associate Professor	Electronics	27	“	Retired on March -2008
Smt. Kochurani Michael	Associate Professor	Electronics	30	“	Retired on March -2011
Sri. Jacob Koshy	Associate Professor	Solid State Physics	31	“	Retired on March - 2012
Sri. Josekutty Joseph	Sel. grade lecturer	Electronics	On extraordinary leave		Terminated on January 1 st 2012
Sri. Sabu Jacob	Associate Professor	Electronics	30	“	
Dr. K.C. Mathai	Associate Professor	Electronics	30	“	
Sri. George Thomas	Associate Professor	Electronics	28	“	
Dr. Jochan Joseph	Associate Professor	Electronics	20	Guided M. Phil. students	
Smt. Lizymol Xavier	Associate Professor	Electronics	16		
Smt. Rosmin John	Assistant Professor	Non conventional Energy			Joined in September - 2012
Dr. Lakshmi Vijayan	Assistant Professor	Astrophysics			Joined in September - 2012

Faculty Profile - (Guest Faculty attached to the department) EEM				
Prof. James Sebastian	Former HOD Physics	Physics	2001-10	
Ms. Sahalu Mathew		Physics	2008-09	
Ms. Soumya Abraham		Physics	2009-10	
Mr. Jimmy V. Jose		“	2008-09	
Ms. Lisha P. Scaria		“	2010-11 & 2013....	
Ms. Akhila. S		“	2010-12	
Ms. Sinu Soman		“	2012-	
Mr. Sreekanth. A. V		“	2010-11	
Mrs. Leena Varghese		“	2010-11	
Ms. Sreeja Govind		“	2011-12	
Mrs. Sumalekshmi		“	2011-12	
Mr. Thomas Mathew		Electronics	2006-	
Mrs. Rani Mohan	Co-ordinator	Electronics	2007-	
Mr. Cheriyan A.C		Mathematics	2005-	
Mrs. Supriya Kurian		Computer Applications	2010-	
Prof. Mathew George		English	2006-08	
Ms. Anu. M. S		English	2009-10	
Mrs. Meera. C. S		“	2011-	

11. List of senior visiting faculty

- Prof. James Sebastian
- Prof. Kochurani Michel
- Prof. Jacob Koshy

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: EEM course

Year	Theory	Practical
2008-09	90	100
2009-10	90	100
2010-11	90	100
2011-12	90	100
2012-13	90	100

The remaining portions are handled by the senior visiting faculty

13. Student – Teacher ratio (programme Wise) :

Academic year	B.Sc. Physics	M.Sc.	B.Sc. EEM
2008-09	9:1	2:1	4:1
2010-11	11:1	3:1	4:1
2011-12	13:1	3:1	4:1
2012-13	12:1	3:1	3:1

14. No. of academic support staff :

Academic year	Sanctioned	Filled
2007-12	3	2
2012-13	3	3
2001 onwards (EEM)	-	1

15. Qualification of Teaching Faculty :**Physics:**

M.Sc, M.Phil, Ph.D – 3

M.Sc, Ph.D – 1

M.Sc, M.Phil – 1

M.Sc – 2 +8(Guest faculty)

16. No. of faculty with ongoing projects :

National - 2

Sl. No	Principal Investigator	Title	Funding agency
1	Dr. K.C. Mathai	Auto-ignition combustion synthesis of $M_xM_{(1-x)}Nb_2O_6$ ($M = Mg/Ca$) and $M = Ba/Sr$) and its characterization	UGC
2	Dr. Jochan Joseph	Photo electronic studies of M_n doped Potassium halides by melt growth	UGC

17. Departmental Projects by funding agencies like UGC, DST etc.

Two – Funded by UGC

18. Research centre / facility recognized by the university :

The department has applied for a research centre affiliated to the Mahatma Gandhi University, Kottayam. The department maintains a research lab with – Spin Coating Unit, Strip Chart Recorder, Chemical Vapour Deposition unit, Chemical Bath Deposition, Muffle furnace, Distilled water unit, EL,PL,PC and PV measuring instruments (PMT, Agilent spectro Flourimeter, Micro voltmeter, Nano Ammeter etc.) Crystal growth unit, magnetic stirrer and Electronic balance.

19. Publications :

Publications	2009-10	2010-11	2011-12	2012-13
Papers Presented	2	8	4	3
Published	3	3	13	18
Chapters in Books	Nil	Nil	2	Nil
Editing Books	Nil	1	Nil	Nil
Books	Nil	Nil	Nil	Nil

The department is actively engaged in research during the period and has published 37 papers in international and national journals during the past four years. Dr. Lakshmi Vijayan has two standard references. She has also authored a book chapter with ISBN:818372030-7.

Papers presented:

Name of the faculty	International	National
Dr. Varghese Mathew	17 (6)	2
Sri. Sabu Jacob	6 (6)	2 (2)
Dr. K.C. Mathai	6 (1)	-
Dr. Jochan Joseph	18 (8)	-
Smt. Lizymol Xavier	3 (3)	-
Dr. Lakshmi Vijayan	7	

20. Area of consultancy and income generated : Nil**21. Faculty members in national /International committees Editorial boards etc.**

The entire faculties are members of the Association of Physics Teachers.
 Dr. Varghese Mathew is a member of the Indian Association for Crystal Growth.
 Dr. Jochan Joseph is a member of ISNDT and Optical Society of India.

22. Student Projects

Project year	UG B.Sc.	UG EEM	PG
	In house		
2008-09	100	100	80
2009-10	100	100	85
2010-11	100	100	100
2011-12	100	100	80
2012-13	100	100	75

PG - Project Works Carried out by External Students

Sl. No	Year	Number of students
1	2008 – 09	36
2	2009 – 10	25
3	2010 – 11	6
4	2011 – 12	12

23. Awards/Recognitions received by faculty and students :

Dr. K.C. Mathai was awarded the **'Dayavati Rastogi Award** for the best paper presentation' for his paper entitled **'Elastic properties of nano structured AZrO₃ (A= Ba, Sr) single perovskites'** at Women's Christian College, Nagercoil, Tamil Nadu, September 1-2, 2011.

Honouring the Alumni with Research Excellence

We always encourage research works of our students and faculty. Our former students who secured Ph.D. degree have been honored during the Alumni gathering every year.

- Dr. Biju. K. Joseph (Bangalore) - 2007
- Dr. Jincy Joseph (Assumption College, Changanacherry) - 2007
- Dr. Padmakumar. H (N.S.S. College, Pandalam) - 2008
- Dr. Jochan Joseph (St. Aloysius, College, Edathua) - 2009
- Dr. C. G. Geetha (Dawn International School, Kochi) - 2009
- Dr. Jini Thomas (K. E. College, Mannanam) - 2010
- Dr. Mareena Aloysius (Assumption College, Changanacherry) - 2011
- Dr. Varghese Mathew (St. Aloysius' College, Edathua) - 2012
- Dr. Obey Koshy (University campus, Kariavattom) - 2012
- Dr. Sreeraj. M (Cochin College) - 2012
- Dr. Indulal C. R - 2012

Achievements by Students

2007-08

- Dr. P.T. Joseph prize (top mark in Part-I English) - Merlin Luke
- II Rank in B.Sc. Physics (EEM), M. G.U - Anoop Harshan
- III Rank in B.Sc. Physics (EEM), M. G.U. - Liju R. Varghese

2008-09

- I Rank in B.Sc. Physics (EEM), M. G.U - Sujith S.Nair
- II Rank in B.Sc. Physics (EEM), M. G.U - Anna Mekha Mathew

2009-10

- I Rank in B.Sc. Physics (EEM), M. G.U - Sabareesh S
- I - prize in intercollegiate Aloysian star singer competition –Vishnu Namboothiri
- I - prize in elocution completion held at Assumption College, Changanacherry – Tessy John, II B.Sc.
- I - prize in elocution completion held at TKMM College, Nangiarkulamgara– Tessy John, II B.Sc.
- All Kerala Quiz competition at St. Stephen’s college, Uzhavoor – Manesh Michel & Anupama
- II - prize in seminar presentation completion held at Assumption College, Changanacherry -Tessy John, II B.Sc.

2010-11

- I Rank in B.Sc. Physics (EEM), M. G.U- Ms. Veena S
- III Rank in B.Sc. Physics (EEM), MGU- Ms. Sarimol. U
- IV Rank in B.Sc. Physics, MGU - Manesh Michael
- Vishnu Nampoothiri of III B.Sc. EEM won first prize in the intercollegiate Aloysian Star Singer programme, 2011.
- Tessy John (III B.Sc.) 1st prize in state level elocution competition conducted by the Energy Conservation Society, 2011.
- She was selected as the best debater in the intercollegiate debate competition held at SB College, Changanacherry, 2011.
- Manesh Michael (III B.Sc.) and Pradeep Kumar. G (II B.Sc.) won second prize in the intercollegiate quiz competition at SB College, Changanacherry, 2011.

24. List of eminent academicians and scientists/visitors to the department :

Sl. No	Name	College	Topic	Date
1.	Dr. K. K. Narayanan Dr. Thomas Kurian Dr. M.L. Joshi Dr. M.C. Abani	Bhaba Atomic Research Centre (BARC), Mumbai	Radiation Protection An introduction- Nuclear Radiation Radiation Dosimetry	10-02-2012
2.	Dr. Viju Kuttickal	Medical Officer, Alappuzha	Towards better health	14-01-2012
3.	Rev. Fr. James Kumbathanam	Procurator, Arch Diocese, Tiruvalla	Personality-Integral Development	14-01-2012
4.	Dr. Issac Paul	S.B. College, Changanacherry	Raman Spectroscopy	7-10-2009
5.	Dr. C. G. Geetha	Principal, Dawn International School, Kochi	Education towards excellence	13-02-2010
6.	Dr. K. Radhakrishnan	HOD – NSS College, Changanacherry	New trends in Physics	10-2-2009

7.	Dr. M. R. Anantharaman	HOD – Physics, CUSAT, Kochi	Research prospects in Physics	22-08-2012
8.	Dr. R. Jayakrishnan	Christian College, Chengannur	Light-Matter Interactions	26-09-2012
9.	Dr. B.P. Chandra	Former VC, Pandit Ravi Sankar, Sukla University, Raipur, Chhattisgarh	Mechanoluminescence and its applications	19-08-2011
10.	Dr. S. Uthanna	HOD – Physics, S.V. University, Tirupathi	Preparation and characterization of transparent conducting oxide tin films	19-08-2011
11.	Dr. C. K. Mahadevan	S.T. Hindu College, Nagarcoil	Single crystals for Second harmonic generation	20-08-2011
			Steps to improve Physics Learning	22-08-2012
12.	Dr. M. K. Jayaraj	CUSAT, Kochi	Oxide nano structures for luminescent applications	20-08-2011
13.	Dr. N. V. Unnikrishnan	HOD – Physics, Mahatma Gandhi University, Kottayam	Lasing and Optoelectronic properties of certain hybrid materials	19-08-2011
14.	Dr. K. E. Abraham	S.B. College, Changanacherry	UV-Vis. Luminescent spectroscopy	20-08-2011
15.	Rev. Fr. Tom Kunnumpuram	Director, Higher Education Centre, Archdiocese of Changanacherry	Higher Education Scenario in Kerala	19-08-2011
16.	Prof. James Sebastian	Former HOD - Physics	Know and Love Physics	16-10-2012
17.	Dr. H. Padmakumar	Dept. of Physics, NSS College, Pandalam	Advanced Ceramics – An overview	19-04-2012
18.	Dr. K. Unnikrishnan	Dept. of Physics, NSS College, Changanacherry	Introduction to space physics	23-09-2011
19.	Prof. G. Srinivas	Principal – Govt. College, Kottayam	Digital Signal Processing	13-03-2011

20.	Dr. K.P Satheesh	Principal – Govt. College, Ambalapuzha	Tensor analysis	15-11-2010
			Relativistic electrodynamics	16-11-2012
21.	Dr. G. Indulal	Dept. of Mathematics, St. Aloysius’ College, Edathua	Inter disciplinary mathematical applications	15-11-2010
22.	Prof. Sashi Bhushan	School of studies in Physics, Pt. Ravishankar Sukla university, Raipur	Electroluminescent materials	10 th Aug2007
23.	Dr. Jijimon K Thomas	Mar Ivanios college, Trivandrum	Dielectric materials	11 th Aug2007
24.	Dr. M. K. Jayaraj	CUSAT, Kochi	Transparent thin films	11 th Aug2007
25.	Dr. K. J Shaji	CUSAT, Kochi	Transparent thin films	10 th Aug2007
26.	Dr. Mahadevan Pillai	Dept. of Optoelectronics, University of Kerala	Pulsed lasers	12 th Aug2007
27.	Dr. George C Chennattucherry	S.B College Changanacherry	Charge transfer in dyes	12 th Aug 2007

25. Seminars /Workshops Organized during the period and source of funding :

Programmes	Number of programmes
National Seminar	2
Regional seminar	13
Orientation/awareness programmes	4

26. Student profile programme/course wise (Refer Q.no.4) :

Name of course	No. of applicants	Selected	Enrolled		%age of pass
			M	F	
Amateur astronomy 2012-2013	CAP	18	11	7	100
2011-2012	CAP	18	8	10	100

B.Sc. PHYSICS	CAP	Selected	Enrolled		%age of pass
			M	F	
2012-2013			11	14	88
2011-2012	172		30		90
2010-2011	150	34	19	11	86
2009-2010	102	32	17	8	62
2008-2009	128	32	15	17	63
		31	15	16	87
UG-E E M	CAP	Selected	Enrolled		%age of pass
			M	F	
2012-2013	1	18	17	1	
2011-2012	26	26	26		52.2
2010-2011	31	31	28	3	58
2009-2010	32	32	32		25
2008-2009	26	26	23	3	39
M.Sc. PHYSICS	CAP	Selected	Enrolled		%age of pass
			M	F	
2012-2013		10	7	3	
2011-2012		10	3	7	
2010-2011		13	2	11	84
2009-2010					
2008-2009					

27. Diversity of students

Name of course	%age of students from same state	%age of students from other states	%age of students From abroad
B.Sc.	100%	NA	NA
B.Sc. (EEM)	100%	NA	NA
M.Sc.	100%	NA	NA

28. How many students have cleared National/ state competitive exams such as NET, SLET, GATE, Civil services, etc. : 32

29. Student progression / percentage enrollment :

Year	UG to PG	PG To M.Phil.	PG to Ph.D.	Ph.D. to Post Doctoral	Employed		Self employed
					CS	Other than CS	
2008-09	60	1	2	Nil	2	65	10
2009-10	30	1	1	Nil	Nil	23	
2010-11	50	Nil	Nil	Nil	Nil	12	
2011-12	33	Nil	1	Nil	Nil	16	
2012-13	55	1					

Student progression / percentage enrollment-EEM

Academic Year	UG to PG	PG To M.Phil	PG to Ph.D.	PhD to Post doctoral	Employed		self employed
					CS	Other than CS	
2007-08	32	Nil	Nil	Nil	5	63	21
2008-09	27	Nil	Nil	Nil	2	23	19
2009-10	16	Nil	Nil	Nil	Nil	38	09
2010-11	32	Nil	Nil	Nil	Nil	19	16
2011-12	27	Nil	Nil	Nil	4	23	08
2012-13							

30. Details of infrastructural facilities :

Library:

The departmental library has more than 670 books, 15 journals and periodicals. There is a reading corner providing the English Newspaper 'The Hindu' to inculcate reading habit among students. The journals subscribed are Journal of Astrophysics and Astronomy, IJPAP, BOMS, Current Science, Spectroscopy Asia, Pramana and some e-journals.

- **Internet for Staff/ Students:**

The facility is provided to the staff and students.

- **Class rooms with ICT facility:**

The department makes use of the ICT facility available in the Punnpadam hall and smart room. The department has two OHP and a slide projector.

- **Laboratories :**

The department has one general physics lab, two EEM labs, one computer lab, two M.Sc labs and a research lab (Optics & Spectroscopy).

- **Aloysian Amateur Astronomical Observatory (AAAO):**

The college has a Roof – top Sky observatory with two powerful astronomical telescopes, two high - resolution binoculars and a Slide Projector with numerous slides on astronomy.

- **Renewable Energy Club:**

The club undertakes innovative project works on the renewable energy resources. Some of the projects are solar still, wind mill and solar cooker.

31. Number of students receiving financial assistance from college, university, government or other agencies

Travel assistance from UGC

SI No	Year	Number of students
1	2010 - 2011	15
2	2011-12	7

Stipend to financially backward minority

SI No	Year	Number of students
1	2009 - 2010	2
2	2010-11	3
3	2011-12	2

Three OEC/SC students received tuition fees from welfare office, Alappuzha.

32. Student enrichment programmes workshops, seminars etc. :

Carried out regular contact programmes by eminent personalities in the field within the state and from outside the state.

- National seminar on **Optoelectronic Phenomena (NSOP-07)**, August 10-12, 2007.
- Awareness programme on **Nuclear Energy and Radiation**, 11 February, 2009
- National seminar on **Luminescence and Lasing Materials (NSLLM-2011)**, August 19 -21, 2011
- Intercollegiate seminar on **Quantum Field Theory and Lattice Vibrations**, October 12-13, 2006
- Intercollegiate seminar on **Non-Linear Optics**, 26 September, 2008.
- Intercollegiate seminar on **Tensor Analysis**, 15 November, 2010
- Intercollegiate seminar on **Electrodynamics**, November 15-16, 2012
- Workshop on **Experimental Physics** for PG students, 16 December, 2008

Awareness Programmes

08. 9. 2011: 'Prospects of Large Hadron Collider' A presentation by Dr. Jochan Joseph
04. 3. 2012: A presentation by Jayasankar Nampoothiri on 'Scientific background of Nobel Prize in Physics -2012'
29. 2. 2012: National science day – Presentation by Dr. Varghese Mathew on Sir C.V. Raman and his Contributions.

Special Lectures-EEM course

Year/Batch	No. of students attended	Topic	Resource person	Date
2008-09	33	Advanced study in electronics-applications	Thomas Mathew, KE College, Mannanam	1-08-2008
2009-10	29	„	„	28-04-2009
2010-11	26	„	„	20-03-2011
2011-12	16	„	„	09-02-2012
2012-13	21	„	„	29-05-2012

Seminars-EEM

Year/Batch	No. of students attended	Topic	Resource person	Date
2008-09	29	Applications of Electronics	Thomas Mathew, KE College, Mannanam	14-03-2009
2009-10	26	„	„	20-03-2010
2010-11	16	„	„	24-03-2011
2011-12	21	„	„	22-03-2012

Work Shop: Servicing and Maintenance of Electrical and Electronics Equipment.

On the Job Training

Year/ Batch	No. of students attended	Topics-OJT	Resource person	Date
2007	33	Mobile Phone servicing and maintenance Computer hardware and networking	Rajeev .R Madhu. M.S (B.Tech.)	10-05-2008 to 27-05-2008 5-05-2009- 27-06-09
2008	29	„	„	28-04-2009 to 27-05-2009 5-04-2010- 04-06-2010
2009	26	„	„	10-05-2010 to 25-05-2010 4-04-2011- 2-05-2011
2010	16	„	„	05-04-2011 to 15-04-2011 2-05-2012- 09-06-2012
2011	21	PCB layout and designing	Thomas Mathew	28-05-2012 to 20-07-2012

33. Teaching methods adopted to improve student learning?

Entry Level Test

Aptitude test are conducted at the entry level along with the initiation course every year to assess the students. Students are categorized according to their performance and remedial coaching is given to the needy.

Initiation Course

Orientation course for the newly admitted UG students is conducted regularly.

The departmental meetings are often carried out to evaluate the overall performance.

Peer tutor-method, Remedial coaching and Continuous evaluation, Seminars and workshops on various topics are arranged to improve student learning.

Manuscript magazine:

The students of the department are encouraged to bring out their talents and their creative writing skills in the form of a manuscript magazine. The magazines published during the period are

Vibgyor	08-09
Eclipse	2009-10
Rithu-2011	2010-11

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Serving the institutional platforms such as Research Fraternity, Equal Opportunity Centre, Ethics Committee, Staff Co-operative Society, the NSS, Anti-narcotic Cell and Discipline Committee.
- Serving social and religious bodies such as Orthodox Youth Movement, Divya Bodhanam, Janakeeya Jagratha Samithi, Pastoral Council, Thiruvalla Social Service Society (Bodhana) and Orthodox Theological Seminary.
- Faculty members are also serving the Election commission as Presiding Officers.

35. SWOC Analysis

<p>STRENGTH</p> <ul style="list-style-type: none"> • Two UG and one PG course • ICT based teaching, tutorial method, continuous evaluation, peer tutor method, collaborative learning method • Dedicated faculty • National and International Publications. • PG and M.Phil. projects of external students are carried out in the Research Lab • Faculty members participate and present papers in National and International Seminars. • Conducting awareness and training programmes for students and teachers. • Conducting of Regional and National Seminars 	<p>WEAKNESS</p> <ul style="list-style-type: none"> • Remoteness of the locality
<p>OPPORTUNITIES</p> <ul style="list-style-type: none"> • Research Centre in Physics • A full-fledged Research Lab (awaiting University approval) facilitated with advanced Synthesis and characterization techniques. • Effective use of ICT 	<p>CHALLENGES</p> <ul style="list-style-type: none"> • Time-constrained semester system • Flood

DEPARTMENT OF ZOOLOGY

1. **Name of the Department** : Zoology
2. **Year of establishment** : UG : 1998
PG : 2013
3. **Names of Programmes/ Courses offered :**
 1. UG course in B. Sc. Zoology Model II, Aquaculture(vocational) – Chemistry (Complementary)
 2. PG course in M. Sc. Zoology with specialization in Fisheries Science is sanctioned by Govt. of Kerala in 2013.

4. Names of interdisciplinary courses and the departments/ units involved:

Department of Zoology offers an open course in ‘Applied Zoology’ for the Semester V students of other departments. The subjects include Management of ornamental fish breeding, rabbit farming, poultry farming, quail farming, vermiculture, bee-keeping and sericulture.

Number of students attending open course in zoology.

Academic year	Dept. of Commerce	Dept. of Economics	Dept. of English	Dept. of Maths	Dept. of Physics	Dept. of Chemistry
2011-12	4	8	7	3	1	2
2012-13	1	17		3		

5. Annual/ semester/ choice based credit system (programme wise):

Semester system till 2009.

Choice Based Credit Semester System (CBCSS) from 2009 - 2010 onwards.

6. Participation of the department in the courses offered by other departments:

As part of open course, Zoology students attend various courses offered by other departments such as Environmental Economics, Astrophysics, Food Chemistry, English for Careers and Capital Marketing.

Details of B.Sc Zoology students attending open course of other Departments.

Academic year	Dept. of Commerce	Dept. of Economics	Dept. of English	Dept. of Maths	Dept. of Physics	Dept. of Chemistry
2011-12		12	2	3	8	
2012-13	2	10			3	5

7. Courses in collaboration with other universities, industries, foreign institutions etc.:

The students attend a minimum of two study visits in each semester to biological research institutions, universities, fish hatchery/farms, fish landing centres and fish processing units. Students also undergo a compulsory On the Job Training (OJT) programme with performance assessment for 14 days in Aquaculture

farm/hatchery/fish processing industry conducted by The Central fisheries research institutes or state fisheries department.

8. Details of courses/programmes discontinued with reasons: Nil

9. Number of teaching posts:

Year	Sanctioned posts			Filled Posts		
	Professor	Asso. Prof	Asst.prof	Professor	Asso. Prof	Asst. prof
2009-10	Nil	Nil	Nil	Nil	Nil	Nil
2010-11	Nil	Nil	2	Nil	Nil	2
2011-12	Nil	Nil	3	Nil	Nil	3
2012-13	Nil	Nil	3	Nil	Nil	3

10. Faculty profile with name, qualification, designation, specialization (D. Sc., D. Litt., Ph. D., M. Phil):

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph. D. students guided for the last 4 years
Dr. N. Suja	M.F. Sc., Ph. D	Asst. Prof.	Aquaculture Reproductive Physiology and Endocrinology of fin fishes and shellfishes	6 years of teaching experience and eight years of research experience including three years of post doctoral research experience\	Nil
Dr. Shibu George	M.Sc, B.Ed, Ph. D,	Asst. Prof.	Biochemistry	1.6 years of teaching experience and four years of research experience	Nil
Dr. Tessa Thomas	M. Sc, B.Ed, Ph. D.	Asst. Prof.	Crustacean biodiversity	2 years of teaching experience and four years of research experience	Nil
Ms. Jinumol K Xavier	M. Sc., B. Ed.	Guest lecturer	Zoology, Entomology	6 years of teaching experience	Nil
Ms. Ranjani Prasad	M. Sc., B. Ed.,	Guest lecturer	Zoology, Fisheries Science	3 years of teaching experience	Nil

11. List of senior visiting faculty:

Prof. Joseph C. Edward, M. Sc., B. Ed., Former HOD of the Department of Zoology, 33 years of teaching experience

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Year	Theory	Practical
2009-10	66	50
2010-11	100	100
2011-12	60	50
2012-13	40	40

13. Student-teacher ratio:

Course	2009-10	2010-11	2011-12	2012-13
B.Sc	8:1	7:1	5:1	6:1

14. Number of academic support staff (technical) and administrative staff sanctioned and filled:

Academic support staff (technical) Sanctioned: 1, Filled: 1

15. Qualifications of teaching faculty with D.Sc./ D. Litt/ Ph. D/ M. Phil/ PG:

Three Permanent faculties with PG and Ph.D

Two Temporary and one visiting faculty with PG

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

1. Dr. N. Suja doing Minor research project on “Ecobiology of black clam Villorita cyprinoides from Kuttanad waters of Alappuzha District”
Funding agency: UGC
Total grant: 1.2 lakhs
2. Dr. N. Suja conducting Science Popularisation Programme “Science of Fisheries- Towards the Public”
Funding Agency: KSCSTE
Total Grant: 1.8 lakhs

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received:

One completed project, Principal Investigator: Dr. N. Suja

Funding agency: The Department of Science and Technology, Govt. of India

Total grant: 25 lakhs

18. Research centre /facility recognized by the university: No

19. Publications:

Publication	2009-10	2010-11	2011-12	2012-13
Papers presented	3	3	7	4
Published	9	10	11	12
Chapters in Books	Nil	Nil	Nil	Nil
Editing Books	Nil	Nil	Nil	2
Books	Nil	Nil	Nil	2

a. Publication per faculty:

*Number of papers published in peer reviewed journals (national/international) by faculty and students

Name of the faculty/student	International	National	Popular articles	Presentation in Conferences and seminars
Dr. N. Suja	10	16	8	9
Dr. Shibu Geroge	10	1	3	1
Dr. Tessa Thomas	2	3		1
Ms. Keerthi U. S				1
Ms. Shamna Rahuman				1
Ms. Athira Suseelan				1
Ms. Binu Daniel				1
Ms. Arya Krishnan				1
Ms. Sreeresmi				1

* 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.): 30

Listed in international database such as Google, Oaister, Base, Scirus, Scientific Commons, Science Direct, Scopus, Index Copernicus, Ulrich's International Periodicals Directory (UPD), Google Scholar, Academic Journals Database, Biomedical Research Directory (Biores.org), BASE, New Jour, INCLLEN Online Library, World Cat, WorldWideScience.org, 'Elektronische Zeitschriftenbibliothek EZB (Electronic Journals Library), SCOLAR, Electronic Journals and Periodicals [Psychology], HINARI, EMBASE and Safety Lit.

* Monographs: Nil

* Chapter in books: Nil

* Books edited:

A)The abstract book on “Emerging Nano Science and its Future in Biology” based on a UGC sponsored national seminar, pp 1-28 Editor: Dr. Shibu George.

B) Proceedings of the UGC sponsored national seminar on “Emerging Nanoscience and its Future in Biology”. pp 1-124.

Editor: Dr. Shibu George

C) Department newsletter “The Placenta” has been published since April 2012.

Editor: Dr. Shibu George

Books with ISBN/ ISSN numbers with details of publishers: Books with ISBN number: Nil

*Citation Index

Name of the faculty	Citation index	Impact factor
Dr. N. Suja	8+10+9+2+1+1+1+2+8	2.696+2.696+3.267+1.783+1.434
Dr. Shibu George	2+6+1+1	1.21+2.06+1.25+2+2.2
Dr. Tessa Thomas	2	

20. Areas of consultancy and income generated:

Consultancy is given to public free of cost in

1. Identification and preservation of biological specimens
2. Aquaculture activities: farming of fin fishes, shrimp, mollusks and sea weeds
3. Pond preparation
4. Water quality analysis of fish ponds
5. Fish feed preparation
6. Aquarium preparation and Maintenance
7. Breeding of ornamental fishes
8. Fisheries management
9. Clam farming
10. Depuration of bivalves
11. Innovative projects and models (still and working) for school children

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards

A) Prof. Joseph C. Edward

a) National committees

Chairman - B.Sc Zoology Model II Examination [Theory and Practical] from the academic year 2005-2006 to 2009-2010.

b) International committees

Member of the OISCA International NGO, which promotes conservation of nature and sustainability, Head Office at Bangalore, India.

B) Dr. N. Suja**a) National committees:**

1. Marine Biological Association of India,
2. Society for conservation of marine resources
3. Kerala Academy of Sciences

b) International

Asian Fisheries Society

C) Reviewer**a) National journals:**

1. Journal of Marine Biological Association of India
2. Indian Journal Of Fisheries

b) International journals:

1. Pharmacologia
2. International Journal of Biochemistry and Biotechnology
3. Pakistan Journal of Zoology

D) As resource person

1. Demonstration class on aquarium setting and maintenance organized by various clubs, residents associations etc.
2. Bivalve depuration: Black clam co-operative societies
3. Clam farming: Black clam co-operative societies
4. Technical advice to aqua farms and hatcheries
5. Subject expert in interviews of Biological sciences conducted by Kerala Public Service Commission.

22. Student projects

- a. Percentage of students who have done in-house projects including inter departmental/ programme:

Year	%
2007-08	100
2008-09	100
2009-10	100
2010-11	100
2011-12	100

- b. Percentage of students placed for projects in organizations outside the institution ie., in Research laboratories/ Industry/ other agencies

Year	Research laboratories	Industry	other agencies
2007-08	50	Nil	21
2008-09	24	Nil	20
2009-10	23	Nil	20
2010-11	21	Nil	18
2011-12	18	22	26

23. Awards/ Recognitions received by faculty and students

Faculty

Dr. N. Suja, Post doctoral fellowship by the Department of Science and Technology, Govt. of India.

Best research paper award by Centre for Ocean and Environmental Sciences, 2012

Student

Ms. Sindhu R., Third rank in B. Sc. Zoology of MG University 2008, 93.67% marks.

Ms. Parvathy M., Second rank in B. Sc. Zoology of MG University 2010, 93.41% marks.

Ms. Sangeetha G., Third rank in B. Sc. Zoology of MG University 2010, 92.5% marks.

First and second prize for paper presentation by students to Keerthi U. S and Shamna Rahuman (2009-12 batch) in a UGC sponsored National Seminar on “Emerging trends in Aquaculture, harvesting and post harvesting technologies” organized by the Department of Zoology, Marthoma College, Thiruvalla during 7 to 9 March 2012.

Athira Suseelan and Binu Daniel (2013-15 batch) were awarded second prize in the Students Wetland Congress organized by Ashoka Trust for Research in Ecology and Environment (ATREE) on 13-2-2013.

Ms. Veethu Das (2012-15 batch) got three prizes in the national level swimming competition held at LNCP, Trivandrum on 17-9-2012.

The students of Department of Zoology held top positions and get many prizes in the state level Zoologists competition “Zoo fest”

24. List of eminent academicians and scientists/visitors to the department

1. Mr. Sugathan. T.S, The Assistant Wild Life Warden, Kerala Forest Department.
2. Dr. Annaimoni, Research Officer, Central Marine Fisheries Research Institute, Tuticorin.
3. Dr. Jose. P. Jacob, S. B ollege, Changanacherry.
4. Dr. B. Padmakumar, Govt. Medical College, Alappuzha.
5. Dr. K. G. Padmakumar, RARS, Kumarakom
6. Dr. S. B. Syamala, MG College, Trivandrum.
7. Dr. R. Harikumar, Energy Technologist, National Energy Mission.
8. Dr. Nanda Kumar Kalarikkal, Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam
9. Dr. Vidhya Ramaswami, INCITE, New Delhi.
10. Dr. Sunny Kuriakose, Research and Post Graduate Department of Chemistry, St. Thomas College, Pala.

11. Dr. M. R. Anantharaman, Cochin University of Science and Technology.
12. Dr. C. K. Mahadevan, S.T.Hindu College, Nagercoil.
13. Dr. Deepthy Menon, Amrita Institute of Medical Sciences, Cochin.
14. Dr. Nagendra Prabhu, SD College, Alappuzha.
15. Dr. K. K. Balachandran, Principal Scientist (Rtd.), CIFT, Cochin
16. Dr. A. Thulaseedharan, Rubber Research Institute, Kottayam
17. Dr. George Joseph, Sacred Heart College, Cochin
18. Dr. Biju Thomas, St. Stephens College, Uzhavoor, Kottayam

25. Seminars/Conferences/ Workshops organized and the source of funding

1. One day seminar on “The application of Nanotechnology in our daily life” on 17-09-2010.
Source of funding: College fund
2. One day seminar on “Life style diseases with special reference to youth” on 01-09-2011.
Source of funding: College fund
3. One day seminar on “Fish farming and Aquaculture development in Kerala” on 21-12-2011.
Source of funding: College fund
4. One day seminar on “Clean energy options and nuclear safety” in connection with the National Science Day celebration 2012 on 22.2.2012.
Source of funding: The programme was sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE) and supported by DST.
Programme Coordinator: Dr. N. Suja
5. Three days National Seminar on “Emerging Nano Science and its Future in Biology” during 21-23 August 2012.
Source of funding: UGC
Convener: Dr. Shibu George
6. One day seminar on “Strategies for using aquatic weeds” on 13-09-2012.
Source of funding: College fund
7. “Technological Advances in Transforming Womens’ lives”- Women awareness programme on “Fisheries-An Ocean of Options for women empowerment” on 22-9-2012
Source of funding: Kerala State Council for Science, Technology and Environment (KSCSTE)
Programme Coordinator: Dr. N. Suja
8. One day seminar on “Genetically Modified Crops – Prospects and problems” in connection with the National Science Day celebration 2013 on 25-2-2013.
Source of funding: Kerala State Council for Science, Technology and Environment (KSCSTE) and supported by DST.
Programme Coordinator: Dr. N. Suja
9. One day seminar on “Bioinformatics”
Source of funding: College fund

26. Student profile programme/course wise:

Name of the Course/ Programme	Applications received	Selected	Enrolled		Pass percentage
			M	F	
B. Sc. Zoology Model II (Vocational: Aquaculture)					
2009-10	180	27	4	19	65
2010-11	CAP	26	3	19	86.3
2011-12	CAP	26	3	15	83.3 (upto Semester V)
2012-13	CAP	32	3	26	86.3 (upto Semester II)

27. Diversity of students:

2007 to 2012-13

Name of the course	% of students from the same state	% of students from other states	% of students from abroad
B. Sc. Zoology Model II (Vocational: Aquaculture)	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services etc.? 21

29. Student progression

Student progression	08-09 %	09-10 %	10-11 %	11-12 %	12 -13 %
UG to PG	38	62	61	65	68
PG to M. Phil	-	-	-	-	-
PG to Ph. D	12	5	5	Continuing PG	-
Ph. D to post doctoral	Nil	Nil	Nil	Continuing PG	-
Employed *Campus selection *Other than campus selection	62	72	56	58	-
Entrepreneurship/ Self-employment	6	Nil	Nil	4	-

30. Details of infrastructural facilities

- Library:** The Department has got a library. The Department subscribes Newsletter from research organizations such as MPEDA, CMFRI and CIFT. The Department also avails e- newsletters and online journals such as Bio-Conference Live, World fish Centre, Bioresearch, Labroots etc.
- Internet facility for staff and students :** Available in the department
- Classroom with ICT facility:** The teachers utilize the ICT facility available in the smart room.
- Laboratories:** The Department has separate laboratories for Zoology and Aquaculture, a microbiology laboratory and an instrumentation room.
- The department has a well maintained museum.

31. Number of students receiving financial assistance from college, university, government and other agencies :

Year	College	University	Government	Other agencies
2009-10	2		51	16
2010-11	2		50	12
2011-12	4		53	17
2012-13			52	15

32. Details on Student enrichment programmes (special lectures/ workshops/ seminar):

Year	Number of programmes attended
2009 – 10	11
2010 – 11	8
2011 – 12	20
2012 – 13	25

33. Teaching methods adopted to improve student learning:

Aptitude test, Bridge programmes, remedial classes, Peer group teaching, solving of previous years question papers, quiz programmes, collection and exhibition of newspaper cuttings on recent developments in science, publish newsletters on biologically important aspects(Bio Informa), purchase news letter from various scientific institutions, usage of e-library, access to online bio conferences and seminars, field visits, collection, identification and preservation of specimens, maintenance of biological specimen museum, Maintenance of aquarium, conduct breeding experiments of fishes, visit to libraries of various academic and scientific research organizations, participation in Nature Study Camps conducted by Department of Forest and Wild Life, Government of Kerala, interaction with scientists and academicians of national and state level organizations, interaction

with aqua farmers, on-the-job training programmes, participation in quiz competitions/ seminars/ conferences/ workshops/, power point and paper presentation on biologically important aspects, participation in zoofests, feedback analysis from students and parents, teacher to teacher interaction, ICT teaching methods, mentoring, strict monitoring of attendance, department level awards for 100% attendance and academic excellence, periodic counselling classes, regular PTA meeting, Life Guidance classes, participation in competitions, usage of internet facilities, maintaining of the detailed bio-data of students with their semester wise academic progress, department level scholarships and endowments for highest mark in Zoology and Aquaculture.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

The faculty serve as members of Marine Biological Association of India, Society for Conservation of Marine Resources, Kerala Academy of Science and Asian Fisheries Society. They also serve in the review board of Journal of Marine Biological Association of India, Indian Journal of Fisheries, Pharmacologia, International Journal of Biochemistry and Biotechnology and Pakistan Journal of Zoology. The faculty were resource persons to seminars and conferences. They serve the Kerala Public service Commission as subject experts and Election Commission of India as Presiding Officers.

The UG students are volunteers of the NSS, NCC and Bhoomithrasena. They took part in social development activities such as planting of saplings, socio- economic surveys and bio-mass index studies of children of neighbouring schools, through these platforms.

Activities in association with NSS & NCC

The students of Zoology department actively participate in NCC and NSS activities of the college

Year	Number of students in	
	NCC	NSS
2010-11	6	50
2011-12	9	51
2012-13	10	58

35. SWOC analysis of the department and future plans:

<p>STRENGTHS</p> <ol style="list-style-type: none"> 1. Well maintained Museum with a number of specimens 2. Biodiversity of the locality 3. Dedicated teachers 	<p>WEAKNESS</p> <ol style="list-style-type: none"> 1. Lack of well equipped modern state of art laboratory. 2. Lack of sufficient fund for the Department library development.
<p>OPPORTUNITIES</p> <ol style="list-style-type: none"> 1. Location advantage of the college in Kuttanad taluk which is rich in biodiversity. The area is famous for rice production, fish and bivalve production, duck and poultry production. Kuttanad is also very close to marine ecosystem. 2. Students get academic as well as job opportunities in both Zoology and Aquaculture field. 3. The course offers chances for entrepreneurship. 	<p>CHALLENGES</p> <ol style="list-style-type: none"> 1. Poor socio-economic background of the students 2. Time constraint in the semester system.

Future plans:-

1. Green auditing of the campus.
2. Conducting of extension activities such as Coastal area cleaning and Medical camps in fishing villages with the involvement of students.
3. Applying for international and national funds for research projects.
4. Uplifting of the department to a research centre.

DEPARTMENT OF CHEMISTRY

1. **Name of the Department** : CHEMISTRY
2. **Year of establishment** : 1993
3. **Name of programmes/courses offered** : B.Sc Chemistry

The students of B.Sc Physics & B.Sc Zoology programmes study 'Chemistry' as a complementary paper.

4. **Names of inter-disciplinary Courses / Departments involved** :

'Food Science' the open course offered by the department of Chemistry is attended by the students from Maths, Physics, Zoology, English, Economics and Commerce departments.

Year	Maths	Physics	English	Economics	Commerce	Zoology
2011-12	5	5	9	6	7	-
2012-13	4	9	5	-	7	5

5. **Annual/Semester/CBCSS programme wise:**

Choice based Credit Semester System has been introduced in the B.Sc Chemistry programme since 2009.

6. **Participation of the department in the courses offered by the other departments:**

Year	English	Physics	Maths	Economics	Commerce	Zoology
2011-12	1	-	9	4	-	2
2012-13	5	1	8	2	4	-

7. **Courses in collaboration with Universities, Industries, Foreign Institutions:**

Nil

8. **Details of courses/programmes discontinued (if any) with reasons:** Nil

9. **Number of teaching posts :**

Name of Post	Sanctioned	Filled				
		2008-09	2009-10	2010-11	2011-12	2012-13
Professors						
Associate Professors		6	6	5	3	3
Assistant Professors		1	1	1	1	1
Guest Faculty						

10. FACULTY PROFILE

Name	Qualification	Designation	Specialisation	No. of years of experience	No. of Ph.D. students guided
Sri. Varghese Antony	M.Sc. (Che) M.A. (Eng)	Assoc. Prof. & HOD	Physical Chemistry	32	Nil
Smt.Philomina Joseph	M.Sc. (Che)	Asso. Prof.	Pure Chemistry	30	Nil
Sri.Joboy Mathew	M.Sc. (Che)	Lecturer	Physical Chemistry	23	Nil
Sri.Mathew Gregory	M.Sc. (Che) B.Ed.	Asso. Prof.	Pure Chemistry	18	Nil

11. List of Senior visiting faculty : Nil

12. Percentage of Lectures delivered and practical classes handled by temporary faculty: Nil

13. Student / Teacher ratio (Programme wise):

Course	2009-10	2010-11	2011-12	2012-13
B.Sc	41:7	46:6	53:4	59:4

14. No. of academic support staff (technical) and administrative staff:

Lab staff - 2

15. Qualifications of teaching faculty with DSc/ D. Litt/ Ph.D/ M. Phil. : One with Ph.D

16. No. of faculty with ongoing projects from a) National b) International:

An ongoing project entitled “Water and Soil Analysis in Kuttanad” funded by the UGC in the XI plan with Rs.1,10,000/- is run by the department. Lt. Cdr. Varghese Antony, Associate professor is the principal investigator and Mr. Joboy Mathew, Lecturer in the department of Chemistry is the co-investigator. 15 selected students are incorporated for specimen collection and testing.

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received:

The department has already received Rs. 40,000/- from the UGC for the ongoing project.

18. Research centre / facility recognized by the university: Nil

19. Publications: Nil

20. Areas of consultancy and income generated:

Dept. of Chemistry runs a “Water and Soil Testing Lab”. The general public is charged Rs. 50/- for water analysis and Rs. 30/- for soil analysis.

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards : Nil

22. Student projects:

Final year students of the BSc Chemistry programme undergo projects in various current topics such as “Comparative Study of Different Soft Drinks”, “Determination of Available Chlorine in Bleaching Powder”, “Analysis of Soil” and “Determination of the Amount of Acetic acid in Vinegar”.

23. Awards/ Recognitions received by faculty and students:

Adarsh S. of the BSc Degree programme won ‘A’ Grade in ‘Ottamthullal’ at the University level in 2009-‘10 and 2010-‘11.

24. List of eminent academicians and scientists/ visitors to the department

1. Dr. G.D Gem Mathew, St. Thomas College, Pala.
2. Dr. Thomas Mathew, Marthoma College, Tiruvalla.
3. Dr. Saina Hanna Varghese, Catholicate College, Pathanamthitta.
4. Dr. Cherian Mathew, S.B. College, Changanacherry.
5. Dr. T.V. Mathew, S.B. College, Changanacherry.
6. Dr. K.C. George, Reader, Dept. of Physics, S.B College, Changanacherry
7. Sri. Satheesh Kochuparampil, Syndicate Member, M.G. University.
8. Dr. Mohan Thomas, S.B. College Changanacherry.
9. Mrs. Beena, NSS College Changanacherry.

25. Seminars/ Conferences/Workshops organized & the source of funding :

a) National b) International : Nil

26. Student profile programme/course wise :

Name of the Programme	Application Received	Application Selected	Enrolled		Pass Percentage
			M.	F	
B.Sc Chemistry					
2012-‘15	CAP	25	6	19	NA
2011-‘14	CAP	24	5	13	NA
2010-‘13	288	22	4	18	70
2009-‘12	210	21	5	11	88
2008-‘11	88	12	3	7	20
2007-‘10	187	20	5	11	67
2006-‘09	202	18	4	14	88

27. Diversity of Students :

Name of the Course	% of students from the same state	% of students from other state	% of students from abroad
BSc Chemistry			
2012-'15	100%	Nil	Nil
2011-'14	100%	Nil	Nil
2010-'13	100%	Nil	Nil
2009-'12	100%	Nil	Nil
2008-'11	100%	Nil	Nil
2007-'10	100%	Nil	Nil
2006-'09	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services, etc. : Nil**29. Student progression :**

	2012-'13	2011-'12	2010-'11	2009-'10
UG - P G	36%	54%	69%	60%
PG – M.Phil	Nil	Nil	Nil	Nil
PG – Ph.D	Nil	Nil	Nil	Nil
Ph.D to Post Doctral	Nil	Nil	Nil	Nil

30. Details of infrastructural facilities:**a. Library**

In the college library, approximately 763 books are available under the discipline 'Chemistry'. The Department has an internal mechanism to lend 85 books.

b. Internet facilities for staff and students

The Department provides internet facility for both the teaching faculty and students.

c. Class room with ICT facility

'Smart Room' of the college is being used.

d. Laboratories

The Department has a well equipped lab with facilities for U.G. practicals.

31. Number of students receiving financial assistance from college, university, govt. or other agencies :

Students of the department receive financial assistance from the various govt. funding agencies. Students receive the KPCR grant, the OBC, OEC, SC/ST grants, the stipend for the financially backward, the conveyance allowance and the post metric scholarship.

Details of the financial assistance received.

Head	Year	Amount per Student	No. of Students Received the grants
KPCR	2012-'13	Rs. 800/- each	15
	2011-'12		8
	2010-'11		6
	2009-'10		7
	2008-'09		4
SC/ST	2012-'13	Rs. 2,600/- each	5
	2011-'12		5
	2010-'11		4
	2009-'10		4
	2008-'09		5
OBC	2012-'13	Rs. 800/- each	4
	2011-'12		3
	2010-'11		3
	2009-'10		4
	2008-'09		4
OEC	2012-'13	Rs. 800/- each	8
	2011-'12		3
	2010-'11		3
	2009-'10		4
	2008-'09		2
UGC Stipend for Financially backward	2012-'13	Rs.5,000/- each	Nil
	2011-'12		3
	2010-'11		2
	2009-'10		2
	2008-'09		Nil
UGC Conveyance Allowance	2012-'13	Rs.1,400/- each	Nil
	2011-'12		6
	2010-'11		4
	2009-'10		Nil
	2008-'09		Nil
Post Metric Scholarship	2012-'13	Rs. 460/- each	Nil
	2011-'12		2
	2010-'11		3
	2009-'10		Nil
	2008-'09		Nil

In addition to the above mentioned, the outstanding students are given scholarships and endowments instituted by the former faculty and public every year.

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

1. Dr. G.D Gem Mathew, St. Thomas College, Pala.
2. Dr. Thomas Mathew, Marthoma College, Tiruvalla.

3. Dr. Saina Hanna Varghese, Catholicate College, Pathanamthitta.
4. Dr. Cherian Mathew, S.B. College, Changanacherry.
5. Dr. T.V. Mathew, S.B. College, Changanacherry.
6. Dr. K.C. George, Reader, Dept. of Physics S.B College, Changanacherry
7. Mr. Satheesh Kochuparampil, Syndicate Member, M.G. University.
8. Dr. Mohan Thomas, S.B. College Changanacherry.
9. Mrs. Beena, NSS College, Changanacherry.

33. Teaching methods adopted to improve student learning :

In addition to regular classes we conduct remedial coaching for slow learners. The department also undertakes quality enrichment programmes like special theory classes, special practical classes, action plan based on the syllabus, Aptitude test for the students at the UG entry level, assignments and seminars, test papers, guided teaching etc.

The Department has an effective tutorial system. Each class is under the charge of a teacher who looks after the students through inter-actions, counselling, grievance redressal and helps them in both curricular and co-curricular activities.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Faculty members serve social, academic and regional bodies such as NCC, NSS, IQAC, University Board of examiners and CSM. They also serve Election commission of India as presiding officers and the Census authority as resource persons.

35. SWOC analysis of the department and Future plans :

STRENGTHS	WEAKNESS
<ul style="list-style-type: none"> • A Well equipped lab. • Comparatively good academic results. • Dedicated teachers 	<ul style="list-style-type: none"> • Lack of research facility.

FUTURE PLANS

1. A PG course in Chemistry.
2. A bio-gas plant from food waste and thus replace the existing LPG use.

DEPARTMENT OF MATHEMATICS

1. **Name of the Department** : Mathematics and Statistics
2. **Year of Establishment** : B.Sc. Mathematics- 1980
M.Sc. Mathematics- 1995
3. **Names of Programmes offered** : B.Sc. Mathematics, M.Sc. Mathematics
Mathematics (Complementary) to
Physics and Chemistry programmes
4. **Names of interdisciplinary courses** : An open course is offered at Degree
level in Semester V (Applicable
Mathematics).

The number of students from different streams is shown below:

Year	Commerce	Economics	English	Physics	Chemistry	Zoology
2011-12	8	2	1	6	9	3
2012-13	15	--	1	3	8	--

5. Annual/Semester/Choice Based Credit System:

M.Sc. – Semester system till 2011-2013. CSS from 2012-14 onwards.

B.Sc. – CBCSS from 2010 - 11 onwards.

6. Participation of the department in the courses offered by other departments:

The semester V Mathematics students attend interdisciplinary courses conducted by other departments. Details are shown in the following table:

Year	Economics	Physical Education	Commerce	Food Science	Ornamental Fish breeding	Amateur Astronomy	English for careers
2011-12	8	1	8	5	3	6	4
2012-13	5	4	14	4	3	6	--
2013-14	5	--	1	3	1	19	1

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

The department conducts a scholarship examination every year (Madhava Mathematics Competition) in collaboration with S.P. College, Pune, Homi Bhabha Centre for Science Education and TIFR, Mumbai under the financial assistance of the National Board of Higher Mathematics. The II and III year Degree students take part in it.

8. Details of courses/programmes discontinued if any with reasons: Nil

9. Number of Teaching posts

Name of Post	Sanctioned	Filled				
		2008-09	2009-10	2010-11	2011-12	2012-13
Professors	0	0		0	0	0
Associate Professors	4	4	4	3	3	3
Assistant Professors	3+1(Stat)	3+1	2	2	4+1	4+1
Guest Faculty			1+1	2+1	0	0

10. Faculty profile with name, qualification, designation, specialization

Name of the Teacher	Qualification	Designation	Specialization	No. of years of experience	No. of Ph. D students guided for the last 4 yrs
Smt.Aniamma Peter	M.Sc., B.Ed.	Associate Professor	Analytic Number Theory	30	
Smt.Ancy Peter	M.Sc., B.Ed.	Associate Professor	Real Analysis	17	
Smt.Kochu Thressiamma Joseph	M.Sc., B.Ed, M.Phil.	Associate Professor	Algebra, Fuzzy Mathematics	17	
Dr. Indulal G.	M.Sc., M.Phil, Ph.D	Associate Professor	Graph Theory, Combinatorics	16	
Dr. Jicksy Isaac	M.Sc., Ph.D	Lecturer	Statistics	7 months	
Sri. Jijoy Joseph	M.Sc	Lecturer	Functional Analysis	1	
Dr. Mary George	M.Sc., M.Phil, Ph.D	Assistant Professor	Theoretical Computer Science	6	
Sri.Jogy Joseph	M.Sc., B.Ed., M.Phil.	Assistant Professor	Complex Analysis	4	
Smt.Pournamy M.	M.Sc., B.Ed.	Guest Lecturer		3	
Sri.Jibu Tom Thalackel	M.Sc., B.Ed	Guest Lecturer		1	
Sri. Nobin Thomas	M.Sc., B.Ed.	Guest Lecturer		4 months	

Smt.Surya Raveendran	M.Sc., B.Ed.	Guest Lecturer		6 months	
Sri.Vivek P.V.	M.Sc.	Guest Lecturer		2 months	
Smt.Priya G. Kozhuppakkalam	M.Sc.	Guest Lecturer		1	
Smt.Ann Sharon Noronha	M.Sc.	Guest Lecturer		2	
Smt. Deena C Scaria	M.Sc., B.Ed., M.Phil.	Asst. Professor	Real Analysis	1	
Sri. Jijo Joy	M.Sc., B.Ed.	Asst. Professor	Topology	1	
Dr. Jubin Antony	M.Sc., Ph.D	Asst. Professor	Statistical Inference	1	

11. List of Senior visiting faculty : Sri.K.I.Abdul Lathief, Sri.K.U.Zacharia, Dr.Joseph Mathews, Dr.K.P.Jose, Dr.Aparna Lakshmanan, Dr.Manju Menon.

12. Percentage of lectures delivered and practical classes handled by temporary faculty:

Course	2008-09	2009-10	2010-11	2011-12	2012-13
B.Sc. Maths	20	35	45	45	0
B.Sc. (Sub) Statistics	10	100	100	100	25%
M.Sc. Maths	20	35	20	20	0

13. Student - Teacher ratio -

Course	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
B.Sc	26:1	26:1	25:1	32:1	36:1	20:1
M.Sc.	10:1	9:1	9:1	11:1	12:1	10:1

14. Number of academic support staff and administrative staff: sanctioned and filled : One

15. Qualifications of teaching faculty(Mathematics + Statistics)

D.Sc./D.Litt – 0

Ph.D. – 2+1

M.Phil. – 5

M.Sc. – 7+1

16. No. of faculty with ongoing projects from National and International funding agencies and grants received :

Sl. No	Principal Investigator	Title	Funding agency	Amount sanctioned
1	Dr.Indulal G	Distance spectrum of graphs	UGC	80,000/-
2	Dr.Jubin Antony	Willingness to pay for access to improved and reliable piped water – A contingent valuation study in Kuttanad Taluk, Kerala	UGC	200000/-

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received : Nil

18. Research Centre/ Facility recognized by University

: Applied for a research centre

19. Publications:

Total number of publications: 17 (12+5 in peer reviewed journals)

20. Areas of consultancy and income generated: Nil

21. Faculty as members in

(a) **National Committees** – 5 (KMA, IMD)

(b) **International Committees** – 1 (American Mathematical Society, American Chemical Society)

(c) **Review Boards:** Elsevier Journals, Linear and Multi linear Algebra, Journal of inequalities, Applied Mathematics Letters.

22. Student projects :

(a) **Percentage of students who have done in-house projects including inter-departmental/programme** : M.Sc. – 100%; B.Sc. – 100%

(b) **Percentage of students placed for projects in organizations outside the institution** – Nil

23. Awards/ Recognitions received by faculty and students:

Soniya Joseph - Cash award in the Intercollegiate Debate Competition

- First Prize in the A.D. Shroff Elocution competition
- First prizes in Elocution competitions conducted by College Bhoomitrassena, College Energy club and Irene Mary Memorial Elocution competition.

Students of this department have bagged the award for Science stream (Dr. Thomas Pothanamoozhi award for the Best Outgoing student) ever since its introduction in 2009.

Ms. Mukthi Das (2009-10)

Ms. Archana Mohan (2010-11)

Ms. Saranya B (2011-12)

Ms. Soniya Joseph (2012-13)

24. List of Eminent academicians and scientists/visitors to the Department –

Year	Name of academician	Purpose of visit
2008-09	Dr. K.P. Jose, St. Peter's College, Kalamassery Dr. Vijayakrishnan S, S.D. College, Alappuzha	Mathematics Association Inauguration of 2008-09 Resource person in one-day seminar on 1-11-2008
2009-10	Dr. H.S. Ramane, Gogte Inst. of Technology, Belgaum Dr. R. Balakrishnan, Bharatidasan University, Tiruchirappally Dr. Achuth Sankar S Nair, Centre for Bioinformatics, University of Kerala Dr. T.G. Deepak, IIST, Tvm Dr. E. Krishnan, University College, Tvm Dr. Joseph Mathews, Coordinator, GRAF, University of Kerala Dr. Sunil Jacob John, NIT, Calicut Dr. A Vijayakumar, CUSAT Dr. M.N. Narayanan Namboothiri, CUSAT Dr. Jose K.P., St. Peter's College, Kolencherry Dr. Aparna Laxmanan S., St. Xavier's College, Aluva Dr. Manju K. Menon, St. Paul's College, Kalamassery	Resource persons of UGC sponsored National Seminar on 'Recent Trends in Graph Theory Fuzzy Mathematics, Mathematical Chemistry and Biology', held on 12th-14th August 2009.
2009-10	Smt. R. Shylaja Kumari, Asso. Prof. in Maths, NSS College, Changanacherry	For a demonstrational lecture on Vedic Maths in March '10
2010-11	Mr. Pratheesh Abraham, Asst. Professor in Mathematics, U.C College, Aluva	Mathematics Association Inauguration. Inaugural Seminar on History and Origin of Mathematics and Fuzzy Mathematics on 13/9/2010
2011-12	Dr. Mathews M. George, Asso. Prof. in Mathematics, BAM College, Thuruthicaud	Mathematics Association Inauguration of 2011-12
2012-13	Prof. Jisha Jacob, Asso. Prof. in Maths, S.D. College, Kanjirappally	Mathematics Association Inauguration of 2012-13

25. Seminars/ Conferences/ Workshops organized & the source of funding :

Organized a three-day national seminar on 'Recent Trends in Graph Theory Fuzzy Mathematics, Mathematical Chemistry and Biology' from 12 to 14 August, 2009 with financial assistance from the UGC. Department level one-day seminars - 12 (Funded by the college)

26. Student profile programme/course wise:

Year of study	Name of the course/ programme	Applications received	Selected	Enrolled Male Female (appeared)		Pass percentage
2007-08	B.Sc. Maths	145	29	9	20	83%
	M.Sc. Maths	45	10	2	8	70%
2008-09	B.Sc. Maths	135	30	8	22	77%
	M.Sc. Maths	40	10	1	9	22%
2009-10	B.Sc. Maths	308	41	12	20	33%
	M.Sc. Maths	30	7	7	7	50%
2010-11	B.Sc.	170	42	5	19	64%
	M.Sc.	35	10	3	7	50%
2011-12	B.Sc. Maths	CAP	38	11	27	54%
	M.Sc. Maths	CAP	13	13	13	62%
2012-13	B.Sc. Maths	CAP	36	12	24	60%
	M.Sc. Maths	CAP	9	0	9	33%

27. Diversity of students

Name of the course	% of students from the same state	% of students from other students	% of students from abroad
B.Sc. Mathematics	100%	0	0
M.Sc. Mathematics	100%	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense services, etc.? –

Every year 2 or 3 of our students get selected in the Defense services. In previous years 5 of our students qualified the NET and 17 the SET.

29. Student progression:

Student progression	% against enrolled
UG to PG	80
PG to M.Phil	18
PG to Ph.D	12
Employed	30
Campus Selection	0
Other than campus selection	40
Entrepreneurship/Self employment	25

30. Details of infrastructural facilities:

- Library – A department library with 150 books
- Internet facilities for Staff & Students – One computer with internet facility for each department.
- Class rooms with ICT facility -- One common Smart Room
- Laboratories -- A Computational lab with software MATLAB and MATHEMATICA

31. Number of students receiving financial assistance from college, university, government or other agencies:

Year	No of students received financial aid (Conveyance allowance and Stipend from UGC) –			
	I B.Sc.	II B.Sc	III B.Sc.	M.Sc.
2009-10	--	0+2	0+1	--
2010-11	7+2	4+1	--	4+0
2011-12	5+5	4+1	1+0	5+0

B.Sc. (Mathematics) - 97 students out of 107 (I, II, III year) received financial assistance (UGC, KPCR and Muslim girl students scholarship).

M. Sc. (Mathematics) – 22 students out of 23(I & II year) received financial assistance (UGC, KPCR, Single girl child) .

32. Details of student enrichment programmes (special lectures/ workshops/ seminar) with external experts :

The department organizes seminars every academic year. The following table gives a brief account of the seminars organized since the last NAAC accreditation.

Year	Name of resource person	Enrichment programme
2008-09	Dr. K.P. Jose, St. Peter's College, Kalamassery Dr. Vijayakrishnan S, S.D. College, Alappuzha	Mathematics Association Inauguration of 2008-09 Resource person in one-day seminar on 1-11-2008
2009-10	Dr. H.S. Ramane, Gogte Inst. of Technology, Belgaum Dr. R. Balakrishnan, Bharatidasan University, Tiruchirappally Dr. Achuth Sankar S Nair, Centre for Bioinformatics, University of Kerala Dr. T.G. Deepak, IIST, Tvm Dr. E. Krishnan, University College, Tvm Dr. Joseph Mathews, Coordinator, GRAF, University of Kerala Dr. Sunil Jacob John, NIT, Calicut Dr. A Vijayakumar, CUSAT Dr. M.N. Narayanan Namboothiri, CUSAT Dr. Jose K.P., St. Peter's College, Kolencherry Dr. Aparna Laxmanan S., St. Xavier's College, Aluva Dr. Manju K. Menon, St. Paul's College, Kalamassery	Resource persons of UGC sponsored National Seminar on 'Recent Trends in Graph Theory and Fuzzy Mathematics', held on 12th-14th August 2009.

2009-10	Smt. R. Shylaja Kumari, Asso. Prof. in Maths, NSS College, Changanacherry	For a demonstrational lecture on Vedic Maths in March '10
2010-11	Mr. Pratheesh Abraham, Asst. Professor in Mathematics, U.C College, Aluva	Mathematics Association Inauguration. Inaugural Seminar on History and Origin of Mathematics and Fuzzy Mathematics on 13/9/2010
2011-12	Dr. Mathews M. George, Asso. Prof. in Mathematics, BAM College, Thuruthicadu	Mathematics Association Inauguration of 2011-12
2012-13	Smt. Jisha Jacob, Asso. Prof. in Maths, S.D. College, Kanjirappally	Mathematics Association Inauguration of 2012-13. Seminar on 'Our Role in Society'

33. Teaching methods adopted to improve student learning :

ICT based teaching, assignments and project work, and seminars to be presented by the students on certain given topics.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

The students of Mathematics department are volunteers of the NSS, NCC, Bhoomitrasena and other social extension activities. They are committed to serving the weaker sections of the society. In connection with the NSS, all of our students bring an extra lunch on every Wednesday and thus help in providing food for the inmates of 'Shehabhavan'. They take initiatives in charity activities and financial aid is given to those who need medical assistance. The department participated in the science workshop 'Eureka' for the school students. The department coordinates the Madhava scholarship test for the students conducted by the NBHM. Statistical consultancy work is also done for research students.

The teachers of the department are members of various academic and social extension bodies such as ALEEP, Research Fraternity, the National Service Scheme and the Nair Service Society. They also serve the referee and review board of scientific journals. Some faculty members are instructors of the Scripture classes in their parish churches. The faculty members serve the Election commission of India as Presiding Officers.

35. SWOC analysis of the department and Future Plans:

<p>STRENGTH</p> <ul style="list-style-type: none"> ❖ Effective tutorial system. ❖ Mentoring system ❖ Strong teacher – student relationship ❖ Regular Parent-Teacher interactions. 	<p>WEAKNESS</p> <ul style="list-style-type: none"> ❖ Poor transportation facility for students ❖ Majority of the students are of poor academic and economic background.
<p>OPPORTUNITIES</p> <ul style="list-style-type: none"> ❖ Promotion of coaching classes for PSC and Bank tests and other job placement. ❖ Good counselling facility 	<p>CHALLENGES</p> <ul style="list-style-type: none"> ❖ Intermittent flood in the rainy season.

Future Plans:-

- a. A research centre and commencement of M.Phil. programme in Mathematics.
- b. Consultancy work with the help of the computational laboratory.
- c. Enrichment programmes to 10th, +1, +2 students of the neighbouring schools with academic assistance from NBHM & CUSAT.
- d. Orientation programmes to make students aware of the immense possibilities and future of studying Mathematics.
- e. An international seminar on the application of Mathematics in interdisciplinary level.

DEPARTMENT OF ECONOMICS

1. **Name of the Department** : Economics
2. **Year of Establishment** : B.A (Economics) 1977
3. **Names of Programmes / Courses offered** : UG Course in Economics
4. **Names of Interdisciplinary courses and the departments/units involved:**

As part of the Open course, students of Economics attend various courses (offered by other departments) such as English for Career, Food Science, Physical Health and Life Skills, Capital Market and Investment, Management of Ornamental Fish Breeding, Rabbit Farming, Poultry Quail Farming, Vermin Culture, Book Keeping, Sericulture, Applicable Mathematics, and Amateur Astronomy.

Year wise data of names of Inter disciplinary courses and the Departments/ units involved

Academic year	Dept. of Commerce	Dept. of Zoology	Dept. of English	Dept. of Maths	Dept. of Physics	Dept. of Chemistry	Physical education
2010-11	24	12	8	-	-	6	9
2011-12	29	8	4	2	-	6	11
2012-13	19	16	5	-	2	-	7

5. **Annual/ semester/choice based credit system (programme wise):**
Choice Based Credit and Semester System
[In June 2009, CBCSS was introduced at the UG level replacing the yearly scheme]
6. **Participation of the department in the courses offered by other departments:**
As part of Open course of Semester V, Economics students could choose any course offered by any department other than Economics.

Number of students from other departments for open course in Semester V.
Subject : Environmental Economics

Academic year	Dept. of Maths	Dept. of Chemistry	Dept. of English	Dept. of Commerce	Dept. of Zoology	Dept. of Physics
2010-11	5	2	11	22	5	-
2011-12	8	4	6	30	12	3
2012-13	5	2	9	27	10	7

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

Year	Sanctioned Posts	Filled	Profes sors	Asso. Professors	Asst. Professors
2009-10	3(2+ Principal)	2(1+Principal)	0	2	0
2010-11	3(2+ Principal)	2(1+Principal)	0	1	1
2011-12	3(2+ Principal)	2(1+Principal)	0	1	2
2012-13	3(2+Principal)	2(1+Principal)	0	1	1

10. Faculty profile with name, qualification, designation and specialization:

Name and date of joining	Qualification	Designation	Specialis ation	No. of years of Experience
Dr P.C. Aniyankunju	M.A., Ph.D	Principal		29
Sri. V.K. Koshy	M.A.	Asso. Professor		31
Sri. George Joseph	M.A.	Asso. Professor		29
Sri. Johnson. K. Joice	M.A., B.Ed, NET	Asst. Professor		12
Smt. Bittu Ann Chacko	M.A., NET	Asst. Professor		2
Sri. Vimal Chandran	PG, B.Ed	Guest Lecturer		3
Mis. Subitha K Surendran	PG, B.Ed	Guest Lecturer		

Guest Lecturers (2012-2013): 3 (Dept of Economics, History and Political Science)

11. List of senior visiting faculty: Prof. V.K. Koshy (Former Head of the Department)

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Year	Lecturers by temporary faculty (in %)
2009-10	60
2010-11	96
2011-12	60
2012-13	60

13. Student -Teacher Ratio (programme wise)

Year	Student-Teacher Ratio
2009-10	30:1
2010-11	36:1
2011-12	36:1
2012-13	36:1

14. Number of academic support staff (technical) and administrative staff :
sanctioned and filled: one

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.:

Name and date of joining	Qualification	Designation
Dr P.C. Aniyankunju	M.A., Ph.D	Principal
Sri. V.K. Koshy	M.A.	Asso. Professor (Retired)
Sri. George Joseph	M.A.	Asso. Professor (Retired)
Sri. Johnson. K. Joice	M.A., B.Ed, NET	Asst. Professor (Resigned)
Smt. Bittu Ann Chacko	M.A., NET	Asst. Professor
Sri. Vimal Chandran	PG, B.Ed	Guest Lecturer
Mis. Subitha K Surendran	PG, B.Ed	Guest Lecturer

One permanent faculty has registered for Ph.D

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; UGC, DBT, ICSSR, etc. and total grants received: NIL

18. Research Centre /facility recognized by the University: Nil

19. Publications:

Number of publications : 39

20. Areas of consultancy and income generated: NIL

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....:
NIL

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme: 100%

All the final year degree students had to undertake in-house projects either individually or group wise 2011 – 12 onwards.

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:

Faculty

1. Dr. P.C. Aniyankunju

- : received John Paul II award from Catholic Federation of India, a Lay Catholic Movement
- : received the award for Excellence in Lay Leadership from the Archdiocese of Changanacherry

Students

1. Asha Raju of IIIrd B A Economics : A member of the Mahatma Gandhi University Ball Badminton Team (2011)
2. Bibish M of IIIrd B A Economics: Represented the college in the Mahatma Gandhi University Swimming Team

24. List of Eminent academicians and scientists/ visitors to the Department:

2009-10

1. Dr. K.P Ramachandran Nair, District Governor, Rotary International, Kollam
2. Adv. Suresh Koshy, Member, Rubber Board, Kottayam
3. Dr. Jose K Joseph, HOD, Department of Economics, SB College, Changanacherry.

2010-11

1. Prof. George Kurian, Former HOD, Department of Economics, St. Aloysius College, Edathua
2. Fr. Thomas Peeliyanickal, Director, Kuttanad Vikasana Samithi.
3. Dr. M.S. James, HOD, Department of Economics, S.B. College, Changanacherry.

2011-12

1. Shri. Subramanya Iyer, Assistant District Industries Officer, Kuttanad.
2. Shri. Shaji C.M., H.S.S Teacher, St. George H.S.S Muttar.
3. Shri. A.V George, Managing Director, Avees Group of Companies, Kuttanad.
4. Shri. M.C. John, Manager, National Health Insurance Company,

2012-13

1. Dr. B. Prakash, Associate Professor, Department of Economics, D.B College, Pamba
2. Captain Dr. Udayan C. Belram, Associate Professor, Department of Political Science, N.S.S College, Changanacherry.
3. Shri. Johnson Varghese, Accounts & Finance Deputy Manager, NTPC, Kayamkulam.

25. Seminars/ Conferences/Workshops organized & the source of funding:

- | | | | |
|-------------------|-----------------|--|-----------------------|
| a) National | b)International | | : 13 |
| Source of funding | | | : Institutional Level |

26. Student profile programme/course wise

Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				Male	Female	
2009-10	B.A. Economics	350	62	17	45	79
2010-11	B.A. Economics	400	60	18	32	58
2011-12	B.A. Economics	CAP	66	16	41	81
2012-13	B A Economics	CAP	60	23	37	85

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2009-10	100	0	0
2010-11	100	0	0
2011-12	100	0	0
2012-13	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services, etc.?

21 students have been recruited to armed forces and 8 to police force in the last four years.

29. Student progression

Student Progression	Against % enrolled			
	2009-10	2010-11	2011-12	2012-13
UG to PG	24	16	21	25
PG to M.Phil	7	6	10	Nil
PG to Ph.D	Nil	Nil	Nil	Nil
Ph.D to Post Doctoral	Nil	Nil	Nil	Nil
Employed	Nil 45 %			
Campus Selection				
Other than campus recruitment				

30. Details of infrastructural facilities

- (a) **Library** : The Dept of Economics has a book bank with 125 books.
- (b) **Internet facilities for staff and students:** Internet facility is available both in the department and at NRC.
- (c) **Class rooms with ICT facility:** Teachers utilize ICT facility and engage classes for the students in the smart room and in the conference hall.
- (d) **Laboratories:** NA

31. Number of students receiving financial assistance from college, university, govt or other agencies:

Year	Number of students (1 st year + 11 nd year + III rd year)				
	College	University	Government	Others	Total
2009-10	12	Nil	40	4	56
2010-11	10	Nil	97	8	115
2011-12	10	Nil	141	6	157
2012-13	10	Nil	125	4	139

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

The Department conducted various student enrichment programmes by way of special lectures and seminars by external expertise.

Resource person	Title of talk	Year
Dr. K P Ramachandran Nair, District Governor, Rotary International, Kollam	Industrial Backwardness of Kerala	2009-2010
Adv. Suresh Koshy, Member, Rubber Board, Kottayam	Asean Agreement and its impact on Indian Economy	2009-2010
Dr. Jose K Joseph, H O D of Economics, S B College, Changanacherry	Importance of Service Sector in Indian Economy	2009-2010
Prof. George Kurian, Former H O D of Economics, S A College, Edathua	Emigration to the Gulf and its impact on the Indian Economy	2010-2011
Fr. Thomas Peelianickal, Director, Kuttanad Vikasana Samiti	Kuttanad Package	2010-2011
Dr. M S James, H O D of Economics, S B College, Changanacherry	Global Economic Crisis	2010-2011
Dr. V Prakash, Associate Professor, Dept. of Economics D B College, Pampa	Research Methodology	2011-2012
Shri. M.C John, Manager, National Health Insurance Company, Changanacherry	Importance of Health Insurance Policy	2011-2012
Sri. Shaji C M, H S S Teacher, St. George HSS, Muttar	Seminar on "Analyzing my Strength and Weaknesses"	2011-2012
Captain Dr. Udayan C Balram, Associate Professor, Dept. of Political Science, N S S College, Changanacherry	Oil price hike and Indian Economy	2012-2013
Sri. Subramanya Iyer, Assistant District Industries Officer, Kuttanad	Importance of Health Insurance Policy	2012-2013
Sri. A V George, Managing Director, Avees Group of Companies, Kuttanad	Entrepreneurial Skill Development	2012-2013
Sri. Johnson Varghese, Accounts & Finance Deputy Manager, NTPC, Kayamkulam	Union Budget 2013	2012-2013

33. Teaching methods adopted to improve student learning

Several methods are adopted in the department to improve the student learning. They are ICT teaching methods, mentoring, special classes, lectures, seminars, remedial coaching, aptitude tests, student-teacher interaction, parent- teacher interaction and counselling.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

The department actively participates in the NSS and NCC activities of the college. Nearly 90 of the students of the department are members of NSS and NCC. The department also undertakes so many extension activities such as charity services, classes on the importance of health insurance, awareness classes to women community and career guidance classes.

The faculty served as the Member of the Board of Studies, M.G. University, Chairman of the Board of Examinations, coordinators of NSS, SKY-UP and Nodel officer in the college level for the CBCSS. They were also members of social platforms such as Co-operative societies, Teacher organizations and pastoral councils.

35. SWOC analysis of the department and Future plans

<p>STRENGTHS</p> <ul style="list-style-type: none"> • Alumni of the department occupy high positions in the local bodies and on Academic platforms. • Many students of this department are volunteers in NCC, NSS and SKY-UP. • A good number of students have joined the armed forces. • The project reports /studies of students are research oriented. • One of the faculty members is doing her Ph.D. • The department has interactions with Cochin Stock Exchange and Banks. 	<p>WEAKNESSES</p> <ul style="list-style-type: none"> • Many students are financially not sound. • The existing government norms (regarding workload) are against appointing permanent faculties to handle subsidiary subjects.
<p>OPPORTUNITES</p> <ul style="list-style-type: none"> • Proposes to conduct National seminars to bring scholars of the Nation on a common platform for interaction with the academic community. • Proposes to resubmit the application for the PG programme and Add-on courses. 	<p>CHALLENGES</p> <ul style="list-style-type: none"> • Skilled students are not opting this highly potential subject.

Future Plans:-

1. To resubmit the application for the post graduate course.
2. Intends to conduct an add-on course on hospital administration.
3. Intends to provide consultancy service to local bodies on 'savings'.
4. Intends to conduct a seminar at the departmental level for developing the entrepreneurial skill,
5. Intends to conduct a state level 'Economics Fest'
6. A workshop on family budget for the neighbourhood women community

DEPARTMENT OF COMMERCE

1. **Name of the department** - Commerce
2. **Year of establishment** - 1980
3. **Name of the programmes/Course offered.**
 - UG - B.Com with Taxation, (Model – I)
 - B.Com with Computer Application (Self financing) Model-II
 - PG - M.Com (Finance)
 - Ph.D. - University approved Research Centre, leading to the Award of Ph.D.

4. **Name of inter disciplinary courses and department/ units involved.**

An open course is offered at degree level in Semester V – Fundamentals of Accounting.

Academic year	Dept. Of Economics	Dept. Of Maths	Dept. Of English	Dept. Of Chemistry	Dept. Of Physics	Dept. Of Zoology	Dept. Of EEM
2011-12	22	12	2	4	4	2	33
2012-13	18	9	5	3	2	8	

5. **Annual/semester/ Choice based credit system (Programme wise)**

B.Com CBCSS from 2009-10 (Model-I & Model II)

M.Com CSS from 2012-13 admission

6. **Participation of the department in the courses offered by other departments.**

Year	Dept. Of Eng.	Dept. Of Phy.	Dept. Of Chem.	Dept. Of Maths	Dept. Of Eco.	Dept. Of Ph.Edu.	Dept. Of Zoology
2011-12	3	-	7	15	27	4	1
2012-13	4	2	7	11	22	14	-

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	Filled
Professors	0	0
Associate Professors	10	10
Asst. Professors	1	1
Part time Law lecturer	1	1

B.Com Model –II

Coordinator	-	1
Guest lecturers	-	6

10. Faculty profile with name, Qualification, designation, Specialization, (D.Sc /D.Litt./Ph.D./M.Phil. etc)

Name	Qualification	Designation	Specialization	No. Of years of experience	No. Of Ph.D. Students guided for the last 4 years
Dr. Zacharias Thomas	M.Com. Ph.D Dip. In Law	Reader	Banking	29	4
Sri. Tomcy Antony	M.Com	Associate Professor	Finance	32	
Sri. P.A. Mathew	M.Com	Associate Professor	Finance	31	
Dr. K.K. Jacob	M.Com, M.Phil., PhD.	Associate Professor	Finance	29	1
Smt.Thresiamma Thomas	M.Com	Associate Professor	Finance	29	
Sri. Jojo .T. Chennamkara	M.Com	Associate Professor	Finance	28	
Sri. George Joseph	M. Com	Associate Professor	Finance	27	
Sri. Tony Antony	M. Com	Associate Professor	Finance	27	
Sri. Joseph Sam	M.Com, MBA	Associate Professor	Finance		
Sri. Jim Jacob	M.Com	Associate Professor	Finance	27	
Dr. Kuriachen George	M.Com, M.Phil, Ph.D	Associate Professor	Finance	27	
Sri. Jerome P.V.	M.Com M.Phil.	Associate Professor	Finance	20	
Adv. George Thomas	M.A., LLB	Part time Law lecturer		30	
Dr.Joshy Andrews	M.Com, Ph.D	Assistant Professor	Finance	1	

11. List of senior visiting faculty.

Dr. Zacharias Thomas

Dr. Tarsis Joseph

Dr. K.K. Jacob

12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty.

B. Com Taxation (Model-I)	- Lecture hours only
B. Com Computer (Model-II)	- Lecture hours – 86%, Practical hours -14%
PG. – M.Com.	- Lecture hours only

13. Student –Teacher Ratio (Programme wise)

B.Com Taxation (Model –I)	- 33.3:1
B. Com Computer (Model-II)	- 24:1
M. Com	- 6:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Sanctioned	-	1
Filled	-	1 (Attender)

15. Qualifications of teaching faculty with Dsc/D.Litt./Ph.D./M.Phil/PG.

Ph.D.	-	3
M.Phil	-	3
M.Com	-	13
MBA	-	1
LLB	-	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, UGC, DBT, ICSSR etc. And total grants received.

NIL

18. Research Centre/Facility recognized by the University

Dr. Zacharias Thomas and Dr. K.K. Jacob are research guides. Sri.Binu Mathew George, Sri.Renjith Jose, Sri.Sebastian K.S., Sri.Anish P. Bhaskara and Sri. Joseph Sam are research scholars.

19. Publications: Number of publications - 4

20. Areas of consultancy and income generated.

Tax planning and consultancy services are offered to the public by the faculty at free of cost.

21. Faculty as members in

- National Committees
- International Committees ----- NIL
- Editorial Boards.

22. Students' projects.

- Percentage of students who have done in-house projects including inter departmental/programme

M.Com	-	100%
B.Com Tax	-	100%
B.Com Computer	-	100%

2012- Percentage of students placed for projects in organizations outside the institutions i.e. in Research laboratories/Industry/other agencies.

23. Awards/Recognitions received by faculty and students.

- Award for the best paper presentation to Sri. Joseph Sam, Asso.Prof. in the NAAC sponsored seminar on 18th March 2011.
- Renjini Sasindran secured the first prize in elocution competition conducted by DC School of Management, Kottayam.
- Jom Alex secured first prize for Business Quiz at St. Gits College, Kottayam.
- Angel Mary Jose bagged the best actress award for a short film at state level.

24. List of eminent academicians and scientists/ visitors to the departments

- Mr. Roy Mathew A.G.M.- Federal Bank
- Mr. Alex Mathew. Technical Consultant. Hedge Equities – Ernakulam

25. Seminars/Conferences/workshops organized and the source of funding

10 – Departmental fund

26. Student profile programme/course wise:

M.Com

Name of the course/programme	Application received	Selected	Enrolled	Passed (percentage)
M. Com (2009-10)	82	15	F-13 M-2	86
M.Com (2010-11)	CAP	17	F-12 M-5	88
M.Com (2011-12)	CAP	19	F- 12 M-6	92
M.Com (2012-13)	CAP	15	F- 8 M-7	83

B.Com Taxation Model-I

Name of the course/programme	Application received	Selected	Enrolled	Passed (percentage)
B. Com (2009-10)	553	66	F-37 M-23-60	40
B.Com (2010-11)	CAP	63	F-36 M-22-58	67
B.Com (2011-12)	CAP	63	F- 36 M-25-59	81
B.Com (2012-13)	CAP	70	F- 34 M-26	78

B.Com Computer Application. (Model-II)

Name of the course/programme	Application received	Selected	Enrolled	Passed (percentage)
B. Com (2009-10)	205	33	F-22 M-11 -33	43
B.Com (2010-11)	CAP	33	F-20 M-13 -33	65
B.Com (2011-12)	CAP	36	F-23 M-13 -36	81
B.Com (2012-13)	CAP	51	F-28 M-23	100

27. Diversity of students

Name of the course	% of students from the same state	% of students from other states	% of students from abroad
B.Com Taxation	100	-	-
B.Com Computer	100	-	-
M.Com	100	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil service, Defense service etc.?

Year	SLET	NET
2009-10	5	3
2010-11	5	2
2011-12	6	2
2012-13	3	1

29. Students Progression

Student Progression	Against % enrolled
UG to PG	54
PG to M.Phil	10
PG to Ph.D.	5
Employed	40
Campus selection	5
Other than Campus recruitment	35
Entrepreneurship/self employment	20

30. Details of infrastructural facilities

a) Library

A separate section is maintained in the library for UG & PG courses.

Internet facilities for staff and students

The department has a computer with internet facility. Our students make use of the separate internet lab attached to the library.

Class room with ICT facility

The department makes use of the facilities with the smart room

31. Number of students receiving financial assistance from college, university, government or other agencies

Class	College	University	Government	Other Agencies
UG	12	6	54	27
PG	4	2	24	3

32. Details of student enrichment programme (Special lectures/ workshops/ seminar) with external experts.

- * A seminar on 'Modern trends in banking' by Mr. Roy Mathew- AGM Federal bank, Alappuzha.
- * A seminar on 'Capital Market' by Mr. Alex Mathew- Technical Consultant- Hedge Equities.

33. Teaching methods adopted to improve student learning

- The teaching-learning and evaluation of the department is in conformity with the guidelines prescribed by the university.
- Teaching-learning process includes lectures, discussions, seminars, practical work, continuous assessment work, library work, visit to banks and industrial units, field surveys, L.C.D presentations, interaction with experts and involvement in the activities of commerce association. The students are made to participate in other college level clubs/forums/extension activities and are encouraged to participate in inter-collegiate competitions as well. Internal evaluation, periodical text, tutorial work, parental interaction/ open houses and bridge programmes are the highlights of the department
- Special attention is given to slow-learners and they are encouraged in many ways by special coaching, remedial classes, personal counselling and answering previous year question papers.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Members of the faculty serve as research supervisors, senate, members of board of studies, members of localbodies, office bearers of professional organizations and the societal and religious platforms.
- They also serve Election commission of India as presiding officers and the Census authority as resource persons.

- UG students underwent Job Oriented training as per the prescribed syllabus. The students assist small business groups to file IT and Sales Tax returns. They students are volunteers of NSS, NCC, Bhoomithrasena, Nature Club and other social extension activities.

35. SWOC analysis of the department and Future plans:

STRENGTH <ul style="list-style-type: none"> • Well-equipped Research Department • Project oriented courses • Job oriented add-on programmes • Dedicated teaching faculty 	WEAKNESS <ul style="list-style-type: none"> • Students hail from economically backward families.
OPPORTUNITIES <ul style="list-style-type: none"> • Availability of potential students • Research minded students can be uplifted. • Better placement opportunities 	CHALLENGES <ul style="list-style-type: none"> • The economic backwardness of the students

Future plans:-

- * Finishing school for the final year degree students.
- * CPT, MAT and CAT coaching classes.
- * Add – on courses:-
 1. Capital Market.
 2. Supply Chain and Logistics Management
 3. Entrepreneurship Development Management.

DEPARTMENT OF PHYSICAL EDUCATION

1. **Name of the department** : Physical Education
2. **Year of Establishment** : 1965
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)** : Nil
4. **Names of Interdisciplinary courses and the departments/units involved**
: An open course for semester V students (Physical Education, Health Education & Life Skill Education).
5. **Annual/ semester/choice based credit system (programme wise)** : CBCSS
6. **Participation of the department in the courses offered by other departments** : NIL
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.** : The faculty is a research guide in Bharathiar University, Coimbatore, 5 research scholars (Part time)
8. **Details of courses/programmes discontinued (if any) with reasons** : Nil
9. **Number of Teaching posts**

	Sanctioned	Filled
Asst. Professors	1	1

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Biju Lukose	M.Phil, Ph.D	Assistant Professor	Sports training & yoga	17 years	5 Ph.D students (Part time) Bharathiar University, Coimbatore

11. **List of senior visiting faculty** :
 - ❖ Dr. Vaidyanathan, former Vice Chancellor of Tamilnadu Physical Education and Sports University, Chennai,
 - ❖ Dr. Jose James, former Registrar of the Mahatma Gandhi University, Kottayam.
 - ❖ Dr. P.J Sebastian, Dean of Karunya University, Coimbatore,
 - ❖ Dr. Sathyanarayanan, former Head of the Director of Usmaniya University, Hyderabad etc.
12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty** : NIL
13. **Student -Teacher Ratio (programme wise)** : 1000:1

- 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled : NIL**
- 15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG. :**
One faculty with MPhil and PhD
- 16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : One**
Minor Research project funded by UGC with a financial assistance of Rs. 90000/-.
- 17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received : NIL**
- 18. Research Centre /facility recognized by the University:** Research guide in Bharathiar University.
- 19. Publications:**
- * **Publication per faculty :**
Dr. Biju Lukose
National Journals - 8
Souvenirs - 4
 - * **Number of papers published in peer reviewed journals (national / international) by faculty and students : 8**
 - * **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.) : NIL**
 - * **Monographs :**
 - * **Chapter in Books :** Two books - one with 5 chapters and the other with 9 chapters.
 - * **Books Edited : NIL**
 - * **Books with ISBN/ISSN numbers with details of publishers :**
2 books from the Department of Physical Education
1 - Physical Education, Health Education and Life Skill Education
2 - Food Nutrition and Dietetic Science.
 - * **Citation Index :**
 - * **SNIP :**
 - * **SJR :**
 - * **Impact factor :**
 - * **h-index :**
- 20. Areas of consultancy and income generated :**
- 1) Basketball
 - 2) Taekwondo
 - 3) Athletics
 - 4) Swimming
- All these consultancy services are free of cost.**

21. Faculty as members in :

- a) National committees b) International Committees c) Editorial Boards
Served as SERT member for the curriculum formation (Vocational Higher Secondary Education) of Kerala State.

22. Student projects :

- a) Percentage of students who have done in-house projects including inter departmental/programme : NIL
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 :

The faculty received the 'best paper presentation award' in the international conference held at VIT University in 2009.
Johnson Varghese - Arjuna Award – 2012.

24. List of eminent academicians and scientists/ visitors to the department :

- ❖ Dr. Vaidyanathan, former Vice Chancellor of Tamilnadu Physical Education and Sports University, Chennai.
- ❖ Dr. Jose James, former Registrar of the Mahatma Gandhi University, Kottayam
- ❖ Dr. P.J Sebastian, Dean of Karunya University, Coimbatore.
- ❖ Dr.Sathyanarayanan, former Head and the Director of Usmaniya University, Hyderabad etc.

25. Seminars/ Conferences/Workshops organized & the source of funding :

- a) National b) International

A UGC sponsored three-day National conference on 'Honing Modern Trends and Promotion of Education in Health Science' with an assistance of Rs.1,10,000/-.

Number of participants : 156

26. Student profile programme/course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
Open course (2011-12)	60	20	18	2	100
Open course (2012-13)	72	24	16	8	100
Open course (2013-14)	90	30	18	12	100

27. Diversity of Students : NA**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? 60(Armed forces)****29. Student progression : NA****30. Details of Infrastructural facilities**

The department makes use of the facilities available in the Library, Internet facilities, Smart room and other ICT facilities.

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 : NIL
33. Teaching methods adopted to improve student learning: ICT, Lecture method and demonstration classes.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities :
- Research guide in Bharatiyar University, Coimbatore.
 - Serving Election Commission as presiding officer.
 - Additional Chief Superintendent for the MG university Off-campus examination at Calcutta.
 - In charge of discipline committee and aquatic club.

Students Participation:-

A. International Achievements

Name	Competitions	Achievements
Sri. Johnson	Commonwealth games	Gold
	International Boxing Champion	Gold
	Participation in Olympics	Olympics
	Arjuna Award Winner	

All India Intersarsity Achievements

Year	Name	Achievements
2008-09	Midun M	Participation in the intersarsity swimming championship
2008-09	Manjusha	Participation in the intersarsity swimming championship
2009-10	Midun M	Participation in the intersarsity swimming championship
2010-11	Midun M	Participation in the intersarsity swimming championship
2010-11	Asha Raju	Participation in the intersarsity Ball Badminton championship
2011-12	Asha Raju	Participation in the intersarsity Ball Badminton championship
2012-13	Bibeesh	Participation in the intersarsity swimming championship

B. University Level

Year	Event	Section	Position
2008-09	Swimming	Women and Men	Second & third
2008-09	Water polo	Men	Third
2009-10	Swimming	Women and Men	Second & third
2009-10	Water polo	Men	Third
2010-11	Swimming	Women and Men	Second & third
2010-11	Water polo	Men	Third
2011-12	Swimming	Women and Men	Second & third
2011-12	Water polo	Men	Third
2012-13	Swimming	Women and Men	Second & third
2012-13	Water polo	Men	Third

C. All Kerala Intercollegiate Football Tournament

M.G University recognized Arch Bishop Mar. Kavukattu & Rev. Fr. Zacharias Punnappadom Memorial All Kerala Intercollegiate Football Tournament

D. Achievements 2008-2014

1. St. Aloysius College Aquatic team–Men and Women winners and runners up
2. St. Aloysius College Taekwondo team – women runners up
3. All India Interschool Participation
4. Secured many prizes in regional competitions
5. State participation in Canoeing, kayaking and rowing
6. Placement cell for the sports students
7. University scholarships and grace marks for the Aquatic team members
8. Reception to the Arjuna Award holder Johnson

35. SWOC analysis of the department and Future plans :

STRENGTH ❖ Organised the Mahatma Gandhi M.G. University Taekwondo Tournament – 2013-14 ❖ Achievements of students in University and State level sports competitions ❖ Conduct of All Kerala Football tournament for the last 24 years	WEAKNESS ❖ Lack of a swimming pool ❖ Lack of an in-door court
OPPORTUNITIES ❖ Multi-gym	CHALLENGES ❖ Intermittent flood in the rainy season.

Future plans:-

- * Innovative programmes under the UGC and the National Skills Qualifications Framework (NSQF) namely Clinical Exercise, Physiology, Sports Therapy and Physiotherapy, Graduation Course – 3.5 years.
- * Various sports academy namely Basket ball, Volley ball, Taekwondo, Athletics, Ball Badminton, Swimming, Water polo and Foot ball.
- * Construction of a standard swimming pool.



ST. ALOYSIUS COLLEGE

(Affiliated to Mahatma Gandhi University, Kottayam)
EDATHUA, ALAPPUZHA DIST., KERALA – 689573, INDIA

Date:

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.

Signature of the Head of the institution with seal:

Place: Edathua

Date: 17.7.2014



ST. ALOYSIUS COLLEGE

(Affiliated to Mahatma Gandhi University, Kottayam)
EDATHUA, ALAPPUZHA DIST., KERALA – 689573, INDIA

Date:

Undertaking

This is to certify that St.Aloysius College, Edathua fulfils all norms

1. Stipulated by the affiliating University and
2. Regulatory Council /Body

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

In case the Undertaking submitted by our institution is found to be false then the accreditation given by NAAC is liable to be withdrawn.

The undertaking given to NAAC is also displayed on our institutional website.

Place: Edathua

Principal

Date: 17.7.2014



ST.ALOYSIUS COLLEGE EDATHUA

College: 0477 – 2212264, 0477 – 2215164

Manager : 0477 – 2212234, 0477 – 2215851

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