

**The Annual Quality Assurance Report
(AQAR) of the IQAC**

Submitted to
**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
&
UNIVERSITY GRANTS COMMISSION**



Submitted by
ST. THOMAS COLLEGE
PALA, KOTTAYAM, KERALA- 686574

Tel:+91-4822-212317

Fax: +91-4822-216313

Email: Principal@stcp.ac.in

stcpiqac@gmail.com

Year of report: 2009-2010

Part A

A plan of action has been framed by every department at the beginning of the year, giving thrust to quality enhancement. Departmental plans of action have been consolidated into a master plan for the college as a whole. Due attention has been given to the expectation of all stakeholders. Programmes have been chalked out to address their demands as well as to improve their performance. The main proposals in the department-wise action plans and the outcome achieved by the end of the year are presented in the report.

Statistics

1. To conduct a national workshop on Bayesian Statistics and MCMC methods using Open BUGS and R.
2. To celebrate the National Statistics Day in a special manner.
3. To conduct an intercollegiate quiz competition on Statistics.
4. To conduct a workshop on Applications of Biostatistics and Epidemiology in Health Sciences.
5. To encourage members of faculty to publish more research articles and books.
6. To strengthen the research activities of the dept and to improve its research output.
7. To promote activities of the alumni.
8. To conduct Professor K. Ramakrishna Pillai Trophy Quiz competition.
9. To encourage activities of the Statistics Association.
10. To strengthen Career Guidance and Placement Cell.
11. More seminars and invited talks to be arranged.

Mathematics

1. To organize Problem Solving Contest for bright students and remedial classes for slow learners.
2. Special coaching classes for UGC-CSIR- NET. Classes will be arranged for General Science and Mathematics.
3. Career Guidance and Placement Cell to be strengthened.
4. More seminars and invited talks to be arranged.
5. Publication of a Journal of international standard.
6. Poor students' aid fund will be made operational.
7. Alumni activities will be strengthened further.
8. The activities of the Mathematics Study Group will be strengthened. More extracurricular activities will be conducted under the auspices the study group.
9. A workshop on the newly introduced CBCSS system for U G Programs is to be arranged

Physics

1. Decided to conduct seminars, workshops and invited talks for the benefit of students in the department.
2. Decided to strengthen the activities of the Physics Association.
3. Decided to actively take part in B Sc syllabus restructure initiatives of M G University.

4. Decided to promote reading habit among students and to deepen their knowledge about various concepts in physics. An innovative programme called “SYP - Sharpen Your Physics” will be launched for I year B Sc students.

Chemistry

1. UGC-CSIR / GATE coaching to be strengthened.
2. More curricular and co-curricular activities will be organized for undergraduate and postgraduate students.
3. Strengthening consultancy activities of the department such as water quality monitoring, soil testing, etc.
4. Alumni activities will be strengthened further.

Biotechnology

1. To promote the activities of the project monitoring committee with a view to improving the quality of the project works of PG students. Students will be required to present two seminars as part of their project work.
2. To evaluate the supervisory assistance provided by teachers.
3. To further improve the animal cell culture laboratory.
4. Provide students with training in molecular biology techniques in the plant molecular biology laboratory.
5. Continue to offer the certificate course in Molecular Biology and Plant Tissue Culture.
6. Further promote the collaboration of the Bioinformatics Centre with the Department of Statistics and Biostatistics. Students of Biotechnology and Applied Microbiology will be trained in Bioinformatics also.

Botany

1. To improve the facilities in the department to the level of a national research centre with the support of Department of Science and Technology, Government of India, New Delhi under the Scheme FIST.
2. To establish a new laboratory for Ethno-biology and to take up a project in Ethno-medicine
3. To modernize the department and laboratory with financial aid from Kerala State Council for Science, Technology and Environment (KSCSTE)
4. To conduct a study about the EFL status of various places in Kerala State.
5. To conduct a plant diversity survey.
6. Collection and identification of plant genetic resources and rearing of rare, threatened and medicinal plants.
7. To conduct field surveys with a view to assessing the threat status of selected plants.

Zoology

1. Decided to promote the activities of the Zoology Association.
2. Decided to promote publications by members of the faculty.
3. Decided to prepare annual lesson plan on the opening day of the new academic year.

4. Decided to continue the free-hour management system.
5. Decided to keep all sorts of leave of absence by staff at the minimum.
6. Decided to prepare printed notes in simple language and give copies of the notes to all students.
7. Decided to encourage the use of charts, models and actual specimens extensively in the class to make teaching and learning processes more effective and interesting.

English

The department of English has outlined the following plans.

1. To conduct peer teaching, peer viva, and dissertation-orientation sessions.
2. To adopt interactive teaching methods with a view to ensuring participation of students.
3. To organize remedial classes for slow learners in PG and UG classes.
4. To conduct spoken English and orientation programmes for employees of other organizations and the public.
5. Career-oriented coaching in English especially for competitive exam candidates.
6. Staging of (one-act) plays and skits.
7. Coaching for UGC-NET.
8. Research Orientation Programme for P.G Students.
9. To conduct brain storming session for final year students.
10. To conduct bridge courses for those seeking admission for PG.
11. To organise mock interviews and group discussions.
12. To convene PTA meeting at the department level.

Malayalam

During 2009-10 the department is celebrating the Golden Jubilee of its BA programme. In connection with the celebrations the department proposes to organize many programmes for the benefit of the students.

1. Organize seminars and invited lectures by eminent personalities in the field of Malayalam literature.
2. Conduct inter-collegiate workshops/seminars on relevant topics in art & literature
3. Organize programmes to promote literary awareness among students, particularly higher secondary students.
4. Design an action plan facilitating students to better interact with successful alumni.

Hindi

1. Career guidance and UGC-NET coaching.
2. Strengthening of student evaluation through internal assessment.
3. Organizing seminars/invited talks for postgraduate and research students.
4. Participation of teachers in seminars/workshops at university and national levels.
5. Publication of articles/research material and books.
6. Further enhancement of research activities and project works.

7. Improving the infrastructural facilities.
8. Strengthening activities of the alumni.
9. Offer remedial classes to weak/SC/ST students.
10. Strengthening the activities of Hindi Association.
11. Conducting research orientation programmes for PG students.
12. Conduct modal viva examination for IV Semester PG students.
13. Conduct meet-the-parents programme.

German

1. To cooperate with the Indira Gandhi National Open University study centre of the college, and motivate the students in doing its certificate course in German language.
2. To organize competitions on language translations.
3. To inculcate a culture of German speaking among the students.

Syriac

1. To arrange interactive sessions for students to make Syriac language studies more interesting.
2. To give an opportunity to students to learn the historical and cultural relevance of the Syriac inscriptions found in different parts of Kerala.
3. To conduct class tests regularly and assess the progress of students.
4. To purchase more books on Syriac language for the General Library.
5. To encourage students to visit library regularly.

Commerce

1. To conduct a national seminar on “Emerging Trends in Financial Services” during September with UGC assistance.
2. Model viva for IV Semester M.Com students in June.
3. To conduct seminars as part the Alumni Interactive Programme.
4. Establish an association of alumni in the department ensuring the active participation of all batches of B.Com. and M.Com.
5. Celebrate the Golden Jubilee of the B.Com. programme and conduct an Alumni Meet in July.
6. Peer teaching by II PG(III SEM) students in II B.Com.
7. Organizing seminars, workshops and invited talks by eminent academicians, and practicing chartered accountants.
8. Centralized mid-term test paper by the department in July and November.
9. Commerce Forum activities:

| | | |
|---------------------------------|---|-------------------------|
| Inauguration | - | August |
| Seminar/Workshop/ Invited Talks | - | (June, December, March) |
| Onam Celebration | - | August |

| | | |
|---|---|----------|
| Com Arena- '10 (Inter Collegiate Commerce Fest) | - | October |
| Christmas Celebration | - | December |
| Valedictory | - | March |

10. Research Extension and Consultancy Cell:

Inaugurate the activities of the Cell and conduct interactive sessions led by research scholars for the benefit of PG students. Inter-collegiate seminar on research reporting, extension programs and consultancy services are to be conducted. Meeting of research scholars and presentation of their progress in studies will be conducted. PG students are also expected to benefit out of it.

11. Meet-the-parents programme will be conducted twice in an academic year.

| | | |
|-----------|---|----------------------|
| I B.Com | - | September & February |
| II B.Com | - | July & February |
| III B.Com | - | July & January |
| I M.Com | - | November |
| II. M.Com | - | October |

12. To conduct a detailed analysis of results towards the end of the year.

13. To prepare for the internal academic audit to be conducted in March.

14. To conduct special orientation/training programmes for students.

15. Synopsis presentation by II. M.Com students in March.

16. Conduct remedial classes for slow learners and students belonging to SC/ST categories.

17. Study tour for III DC during November and for II M Com during January.

18. Staff tour in February.

19. Distribution of endowments and cash awards.

Economics

1. To conduct a seminar on 'Financial Sector Reforms' during August.
2. A lecture on 'Financial Reforms and Indian Stock-Market' during September.
3. Inauguration of Economics Association in September.
4. To conduct seminar on 'Global Warming and its Impacts' during January 2010.

History

1. To conduct seminars and invited talks.
2. To promote the activities of History Association.
3. To improve the research contributions of the department.
4. To conduct training programmes in archeology for students.
5. Poor students' aid fund will be made operational.

Political Science

1. More seminars and invited talks will be arranged
2. The functioning of the alumni association will be strengthened.

3. Spreading of computer literacy among students so as to enable them to use the internet, e-journals etc.
4. Career Guidance and Placement Cell will be strengthened.
5. Promoting the activities of Political Science Association.
6. Publication of a journal of national/international standard.
7. Encouraging teachers to apply for research projects.
8. Research activities will be enhanced.

Physical Education

1. Strengthening of the infrastructure of the department
2. Sports alumni activities will be strengthened further
3. Organising Bishop Vayalil Memorial volleyball competition
4. Coaching camps for various games to be initiated
5. Participation in more intercollegiate events
6. Conduct of various state and intercollegiate events
7. Conduct of more extension activities for the public

IGNOU

1. To increase enrollment of students by adopting suitable promotional measures.
2. To strengthen the convergence scheme of IGNOU
3. To admit more students for B.Com. programme under the convergence scheme.
4. To well maintain the computer lab
5. To offer Diploma in Computer Applications to all students at the centre.
6. To promote certificate course in German language among the regular students.
7. To celebrate Christmas and to conduct a 'cake mela'.
8. To promote the activities of the IGNOU Students Forum.
9. To conduct programmes promoting employability of students.

NCC (Army)

1. To conduct 20 parades this academic year.
2. Celebration of Independence Day, and Republic Day and NCC Day.
3. To conduct trekking expeditions.
4. Visiting charitable institutions as part of NCC Day celebration.
5. Arranging orientation camps for the cadets.
6. To organize programmes promoting environment protection.
7. To cooperate with the authorities in keeping the campus clean.

NCC (Navy)

1. To conduct 20 parades this academic year.
2. Celebration of NCC Day.
3. Celebration of Independence Day with march-past and other functions.

4. Visiting charitable institutions.
5. Arranging orientation camps for the cadets.
6. To conduct 'Run for Fun' programme.

National Service Scheme (NSS)

The NSS unit of the College has planned;

1. To organize community service programmes in Kadanadu, the partner village.
2. To organize programmes at the partner institutions.
3. To conduct mini camps and special camping programmes.
4. To conduct a seminar on world literacy during World Literacy Week.
5. To organize a seminar on population on World Population Day.
6. To observe Hiroshima Day, Independence Day, etc.
7. To conduct seven-day special camping programme.
8. To conduct anti-ragging awareness programme for I DC students.
9. To conduct legal awareness programme.
10. To observe integrated cleaning day.
11. To observe World AIDS Day.
12. To conduct a seminar on human organ transplantation.

Part B

1. Activities Reflecting the Goals and Objectives of the Institution

Statistics

With a view to imparting quality education of international standard, the Department of Statistics organized the following programmes:

1. **Five day UGC-sponsored National Workshop on Bayesian Statistics and MCMC methods using Open BUGS and R was organized during June 26-30 2009.** The workshop was inaugurated by Dr N. Unnikrishnan Nair, Former Vice Chancellor of Cochin University. The chief resource persons were Professor S.R. Deshmukh Pune University, Professor S.K. Upadhayay, Banaras Hindu University and Dr. Kumaran M., Kannur University. There were 15 contributory papers and more than 90 participants.
2. **National Statistics Day Celebrations and Quiz Competition**
National Statistics Day was celebrated on 25 June 2009. As part of the celebrations, a Statistics Quiz Competition for undergraduate students under Mahatma Gandhi University, Kottayam was held. This was sponsored by NSSO, Trivandurum. Eight teams participated and the chief resource person was Dr S.R. Deshmukh from Pune University who distributed the prizes.
3. **Workshop on Applications of Biostatistics and Epidemiology in Health Sciences during October 28-30, 2009.** The workshop was inaugurated by Dr. Abraham Philips (USA). Other resource persons included Dr. K.R. Sundaram, Professor of Biostatistics, Amrita Institute of Medical Sciences, Kochi, Dr. Aleyamma Mathew, Professor of Epidemiology, Regional Cancer Centre, Trivandrum, and Dr. Anil C. Mathew, Professor of Biostatistics, PSG Institute of Medical Sciences, Coimbatore. The workshop was sponsored by KSCSTE (Trivandrum).

Mathematics

The Department of Mathematics organized various programmes to achieve higher standards of quality:

1. **Professor Mathew T Matheikal Intercollegiate Mathematics Quiz Competition**

The Department organized the Professor Mathew T Matheikal Intercollegiate Mathematics Quiz competition on 18 January 2010. Ten teams representing colleges from all over Kerala participated. Prof. Tommy Thomas of the host department was the quiz master. The first prize was won by the team representing Assumption College, Changanacherry. Prizes were distributed by Dr. K.K. Jose, Principal. The programme was coordinated by Dr. V. K Jose.

2. **Mathematics Merit Day:** Mathematics Merit Day was celebrated on 19 January 2010. The chief guest of the function, Very Rev. Msgr. Eanas Ottathengumkal, presented mementos to all the distinction holders, top scorers of M Sc. and B Sc courses and UGC-CSIR JRF& NET holders.
3. **Invited Talk On Fractals:** An invited talk on Fractals and Julia set was conducted on 20th February 2010. Prof. Rajan K Amboory, S.B College Changanacherry, was the resource person.
4. **DST – SERC School on Mathematical Sciences in April-May 2009**
5. **The 2009 SERC School on Mathematical Sciences** sponsored by Department of Science and Technology, Govt. of India, organized by the Centre for Mathematical Sciences at this college in collaboration with the Departments of Mathematics and Statistics was held from 20th April to 22nd May 2009. This year the theme was ‘Matrix Variable Calculus and Statistical Distributions with applications in Astrophysics’. The DST selected the 30 participants from among research scholars and teachers below 30 years of age, working in colleges and universities all over India in the areas of mathematics, statistics and mathematical physics.

Physics

1. The curriculum reform activities were properly planned in a student-oriented manner and the department obtained 100% success in graduate and postgraduate examinations.
2. Guidance is given to many students to qualify for KVPY scholarships, JAM, NET, JUST etc.
3. Faculty of the department actively participated in the syllabus restructure discussions of M.G University held at various stages and forums.
4. Organized seminar on career opportunities in physics, one quiz program, in connection with science day celebrations and another for the P.G students of M.G University.
5. Invited talk on “Elementary particle, cosmology and unification” by Prof. Urjit A Yanik, IIT Bombay
6. Organized National Workshop on “Quantum Confined Systems and Nanosacle Devices” sponsored by UGC, CSIR and KSCSTE.
7. Group Monitoring Workshop (GMW) for young scientists by DST hosted by the department of physics.
8. Organized one-day workshop on “Indian Lunar Mission- Chandrayan 1” in collaboration with ISRO.

Chemistry

The Department of Chemistry organized various programmes for promoting quality at all spheres of its performance.

1. **Resource Generation Camp:** The department conducted resource generation camps in association with Indian Academy of Science, INSA and National Science Academy.
2. **Conferences and Invited Talks:** The faculty members of the department of chemistry gave invited talks to students and teachers of colleges, schools and research organizations. Experts are invited to the department to deliver lectures and invited talks to our students and faculty. Students and teachers have participated in seminars and conferences.
3. **Tutorial:** An effective tutorial system is followed in the department for both UG and PG students. Tutors and class teachers are giving special attention to the academic and personal problems of the students.
4. **Test Papers:** Monthly test papers, quarterly test papers and unit tests are conducted for both UG and PG students under the supervision of the HOD and the class teacher.
5. **Model Examinations:** Model examinations are conducted before the university examinations for both UG and PG students. Model examinations are organized by the examination section of the college.
6. **UGC CSIR Coaching Classes:** Coaching is given to students who prepare for the joint CSIR-UGC JRF/NET and GATE examinations every year. Model test papers are also conducted.

Biotechnology

1. The Project Monitoring Committee monitored the project work of PG students. Students presented seminars as part of their project work.
2. The supervisory assistance provided by teachers was evaluated in the department meeting held at the end of the year.
3. The Animal Cell Culture Laboratory well maintained and improved during the year.
4. Students were given training in molecular biology techniques in the plant molecular biology laboratory.
5. Conducted a certificate course in Molecular Biology and Plant Tissue Culture.
6. Promoted collaboration with the Bioinformatics Centre and the Departments of Statistics and Biostatistics. Students of Biotechnology and Applied Microbiology were given training in bioinformatics also.

Botany

The department is sensitive to the changing demands of the society and industry and to the trends in the field of higher education. The following programmes were organized by the department.

1. **Staff meetings:** The department conducted regular staff meeting to discuss various matters, usually current issues in plant science. All the teachers and non-teaching staff

participated in the meetings. Occasionally, the Principal of the college also participated in such meetings. Analysis of the result of the students is done to study their progress. Special staff meetings were held for urgent issues. Staff meetings were conducted at the beginning and at the end of each semester.

2. **Interaction with the students:** The Head of the Department and tutors interacted with the students regularly. Interactive sessions were used to obtain feedback from students. The problems of students as well as their suggestions were discussed in staff meetings.
3. **Interaction with the parents:** Meet-the-parent programme was conducted. Tutors and HOD had discussions with parents about the performance of students in the department.
4. **Weekly hour for interaction:** It is an innovative practice the department adopted with a view to resolving the problems of students and giving them opportunity to freely interact with teachers. Under this system every teacher will be available in the department at least for one hour in a week during interval time. The schedule is published in the notice board. Students consult the teacher to get proper guidance. The teachers of the Department of Botany are available in the staff room for interaction with students as per the following schedule:

| | | |
|-------------------------|-------------|------------------|
| Dr. Jomy Augustine | – Thursday | 9.30 to 10.30 am |
| Dr. P.O. Augusthy | – Wednesday | 3.30 to 4.30 pm |
| Sri Paul V. Karamthanam | – Thursday | 1.15 to 2.15 pm |
| Dr. Dennis Thomas T. | – Monday | 3.30 to 4.30 pm |
| Sri Toji Thomas | – Tuesday | 3.30 to 4.30 pm |
| Dr. Jos T. Puthur | – Tuesday | 1.15 to 2.15 pm |
| Dr. Johns Augustine | – Wednesday | 12.45 to 1.45 pm |

Zoology

1. Organized an invited talk on ‘H1N1 and Swine Flu’ by Dr. Dominic Mathew Paletu, Medical Officer, District Hospital, Kottayam on 24. 9. 2009.
2. Staff and students of the department participated in the conduct of a science exhibition ‘NEBULA EXPO 09’ at San Jose Senior Secondary School, Choondachery, held during 15-16 October 2009.
3. Under the auspices of the Zoology Association students were given training and encouraged to participate in various extra-curricular activities. Two of the III DC students were qualified to participate in the final round of All Kerala Animal Science Aptitude Test conducted by the Zoological Society of Kerala. Another I DC student won III prize in poster presentation also.
4. Published three research articles in standard journals.

5. Students who are not regular in classes were identified and they were given proper guidance.
6. Identified problems concerning the teaching and learning process and initiated proper remedial measures.
7. Services of the official Counselor of the college is made available to selected students of the department.
8. Remedial coaching was given to SC/ST students.
9. Remedial classes were held for slow learners.

English

The following programmes were organized by the Dept. to help students fare well in their academic pursuits.

1. English Speaking Corner

An English Speaking Corner was kept alive under the massive evergreen mahogany trees in the front yard of the college on working days throughout the year. Hundreds of students participated in this successful endeavor initiated by the English Literary Association with the students of final year B.A. English batch serving as facilitators of the interaction between students in English through discussions, extempore speeches, mock interviews, role play, language games etc. The English Speaking Corner was active from July 2008 to February 2009.

2. Thesis Presentation

Mrs. Sonia James, research scholar under Dr. Augustine Joseph of the Dept., presented her thesis '*Constructing the Subject: Rewriting Shakespeare*' before the teachers and PG students of the Dept. on 25th Nov. 2008. It was a mock open defense session for the scholar and the audience. The presentation was followed by lively discussion, feedback etc. in which both teachers and students actively participated.

3. Christmas Quiz Programme

A unique Christmas Quiz Programme was conducted for PG and UG students separately. Questions relating to Xmas were chosen from English literary texts and linguistic expressions. The top scorers were awarded certificates and attractive prizes. Prof. P. J. Johnson led the programme.

4. Invited Talks

Prof. S. Venu, S.D. College, Alapuzha delivered a lecture on postmodernism for the postgraduate students on 11th August, 2008. Dr. K.V. George, Newman College, Thodupuzha, gave a talk on 'English Literature – A Survey' and led the mock viva voce for MA students on 25th Sept. 2008. Prof. G. Sudhakaran, Ettumanoorapan College, Ettumanoor, spoke to the postgraduate students on literary practices of the day on 1st Nov. 2008. Dr. S. Kalyani Vallath, well-known UGC-NET trainer from Thiruvananthapuram

gave intensive training to the PG English students on NET on 5th and 6th Nov., 2008. Mr. George Karunackal, HR trainer, Palai, gave effective training to UG and PG students on stress management.

5. Alumni Meet

a. *At the UG Level*

The annual get-together of B.A. English batches of previous years was held on 26th Dec. 2008. The batches gathered in their respective classrooms to recollect fond memories, and shared their varied experiences among themselves and with the teachers. They also celebrated Christmas with their teachers. About 160 students participated. Dr. Thomas Augustine, Prof. Tommy Cherian, Dr. Augustine Joseph and Dr. Joy Jacob took mock classes which aroused nostalgic feelings in the students. The degree alumni have taken the decision to help the Dept. set up a well-stocked CD library and to sponsor one bright student from each class who needed financial support.

b. *At the PG Level*

A family get-together of the millennium batch was held on 27th Dec., 2008. They gathered in the Dept. and then proceeded to their classroom to reminisce the days spent there. The principal, former heads of dept. and teachers addressed the gathering. The PG alumni promised to co-operate with all the resource mobilization projects of the Dept.

Malayalam

The department organized a number of programmes for the benefit of students. Invited talks, workshops, inter collegiate competitions etc were organized on a time bound basis for inspiring the students to achieve higher goals in their lives. The following programmes were organized by the Dept. during 2009-10.

1. **Kavisammelanam**

Kavisammelanam ('The Poets' Meet') was organized on 11 December, 2009. The programme was blessed with the presence of S. Joseph, S. P. Namboothiri, Dr. Mini John, C. Santhosh, etc. The gathering was followed by panel discussions on various aspects of modern Malayalam poetry. It also threw light into the essence of Malayalam poems.

2. **Sargakkalari**

The Department's efforts for the promotion of poetry and short story writing in Malayalam was evident from 'Sargakkalari' conducted on 29 December, 2009. Two competitive events (poetry competition and short story writing competition) were organized by the department in connection with 'Sargakkalari'. In order to encourage the poetic minds of higher secondary students, an all Kerala poetry competition was arranged by the Department and the winners were awarded with the Kattakkayam Cherian Mappila

ever rolling trophy and cash awards. The inter-collegiate Malayalam short story competition was also held on 29 December, 2009 under the auspicious of 'Sargakkalari'. Cash awards and Joy Sebastian ever rolling trophy were presented to the winners.

3. **Kathakali**

Kathakali is the classical dance-drama of Kerala, South India, which is one of the oldest theatre forms in the world. It is rooted in Hindu mythology, especially the two epics, the Ramayana and the Mahabharata. Kathakali has a unique combination of literature, music, painting/make-up-code, acting and dance. The technique of kathakali includes a highly developed language of gesture, through which the artist can convey whole sentences and stories with rigorous body movements and footwork; presented in tune with the anchor play back music and complementary percussion. To enlighten the students with real life experience, the Department arranged this superb art form with *Nalacharitham- Second Day* on stage by the Major Set on 30 December, 2009 in the College Auditorium. Renowned artists and musicians from the field of Kathakali graced this occasion with their presence.

4. **Former Teachers and Students Meet**

A get-together of former professors and students was held on 9 January 2010. The chief guest of the day was Dr. S Rajasekharan, an alumnus of the department and Pro Vice Chancellor of Kalady Sankaracharya University. The Department took it as an opportunity to honour its prestigious and successful alumni in various walks of their life. Selected alumni who have made significant contributions to art, drama, literature, politics, education, music, the media, etc. were honoured by draping them with *ponnada*. The gathering also paid homage to the retired teachers through 'Gurupooja'. The first batch of BA Malayalam was reincarnated in a symbolic manner. That was a touching experience to the participants. The students of the first batch were delighted. Former teachers were given mementos as a token of respect.

5. **Kalarnnattam**

January 22, 2010 was a fantastic Friday in the college with a festival mood. A group of (artists) students from Pazhassi Raja College, Pulpally, Wayanad, performed a good number of variety cultural programmes on the stage along with the art forms presented by students of St. Thomas College, Pala. The full day cultural exchange programme gave a memorable experience to the audience.

Hindi

The department took various initiatives to improve its overall performance. In addition to regular classes the department conducted remedial classes, invited talks, workshops and extra classes to promote the performance of students. The following programmes were organized by the Dept. to better achieve the goals and objectives of the institution.

1. **Invited Talks and Seminars**

- (i) A national seminar on 'Concepts of women liberation depicted in post-Independent Hindi novels with special reference to Nirmal Varma' was conducted during 8-10 July 2010. The seminar was sponsored by the UGC. Dr. Veerendra Mohan, Sagar University Madhya Pradesh; Dr. Kumud Sharma, Delhi University and Dr. A. Aravindhakshan, Cochin University were the chief resource persons. Students, research scholars and teachers from various universities participated in the seminar.
- (ii) Another seminar on 'Research Methodology' was conducted during 9-10 January 2010. Dr. Mathew Joseph, HOD of English, was the chief resource person.
- (iii) A seminar on 'Modern Hindi Literature' was conducted during 23-24 February 2010. Dr. Aravindaksh, Prof. (Rtd.), Cochin University, conducted the seminar. Another seminar on 'Project Presentation Methodology' was conducted on 12 March 2010.

2. **Thesis Presentation** Binu kumar V. N., Abdul Jabbar, Santy Joseph, and Sheela P.V., research scholars in the Dept., presented their theses before the teachers and PG students of the Dept. It was a mock open defense session for the scholars. The presentation was followed by lively discussion, feedback etc. in which both teachers and students actively participated.

3. **Other Activities**

- (i) Two ongoing UGC Minor Research Projects
- (ii) Nineteen research scholars doctoral studies pursuing
- (iii) Purchased 170 new books at a cost of Rs. 50000/-
- (iv) Feedback obtained from students and suggestions discussed in staff meetings.
- (v) Remedial classes organized for slow learners
- (vi) Computers and LCD projectors purchased for use in the department by students and teachers
- (vii) Organised 'Meet the Parents' programme on 05 February 2010 for II MA students
- (viii) The department provides counseling services to students

4. **Alumni Meet**

An organization called 'Hindi Parivar' is functioning in the department to coordinate the activities of the alumni. A get-together of the first batch of MA Hindi students was held during the year.

5. **Remedial Teaching**

Remedial classes were offered to academically weak students of UG and PG classes. These classes were given by teachers of the Dept. Classes were held in the morning hours (before the commencement of regular classes).

German

Students were encouraged to do the certificate course in German language of Indira Gandhi National Open University. Two students joined the course during the year. Students were encouraged to speak in German. Class level translation competitions were held.

Syriac

Students were given training in speaking Syriac language. They were encouraged to use the library. More books were purchased for use in general library. Students were given photographs of the Syriac inscriptions found in different parts of Kerala.

Commerce

The academic year 2009-10 was filled with curricular as well as extracurricular activities for the Dept. of Commerce. Both UG and PG results were impressive. Eleven seminars/invited talks were organized. Members of the faculty gave invited talks and presentations in various national seminars in different colleges/universities.

The department is doing a lot for the growth of the students. In addition to the regular classes; remedial classes, extra classes, industry exposure, invited talks, personality development programs, workshops, inter collegiate competitions etc are organized in time for inspiring the students to achieve higher goals in their lives. The following programmes were organized by the Dept. to help students fare well in their academic pursuits.

1. Members of the faculty participated in the 5 day workshop for introduction of CBCSS for B.Com. programme of M.G. University.
2. Conducted mock viva for PG students
3. UGC/NET objective type tests were conducted for PG students
4. Eleven seminars/workshops were conducted for the benefit of students
5. Two ongoing UGC minor research projects
6. Rs. 500000/- PG development grant from UGC
7. Sixteen research scholars pursue doctoral studies
8. An amount of Rs. 95000/- raised internally for various activities in the department
9. Sixty books on commerce/accounting/management costing Rs. 14000/- purchased for general library
10. Introduced student assessment in B.Com. and M.Com. programmes
11. Students and teachers are provided with Internet accessing facility
12. Ninety-one students got financial aid or scholarships from Govt. The total amount of aid comes to Rs. 215480 during the year 2009-10.

13. Two batches of B.Com. (1993-96 and 2005-08 batches) conducted their get-together during the year.

14. Inter-collegiate competition called 'ComAreena 2009' conducted on 28 October 2009.

Economics

The department is providing best possible guidance to students. In addition to the regular classes, remedial classes, extra classes, invited talks, personality development programs, workshops, inter collegiate competitions etc are organized

1. Members of the faculty participated in the 5 day workshop for introduction of CBCSS for the B.A. programme of M.G. University.
2. Four workshops/seminars/lectures were organized during the year 2009-10
3. 150 new books were purchased for general library at a cost of Rs. 50000/-
4. Introduced student assessment in B.A. and M.A. programmes
5. Infrastructure facilities improved by installing more computers, LCD projector, etc.
6. Students and teachers are provided with Internet accessing facility
7. Thirty students got financial aid or scholarships from Govt. The total amount of aid came to Rs. 117955 during the year 2009-10.

History

With a view to imparting quality education in history the following programmes were organised.

1. Seminar on Heritage Preservation was conducted. Training in archeology was given to students at Hill Palace, Tripunithura.
2. A study tour was conducted for III DC students. They visited many places of historical importance.
3. Test papers were conducted unit-wise and objective type tests were given.
4. A quiz competition was organized for students in the department.
5. Counseling help provided to students. Students who needed expert help were referred to the official counselor of the college.

Political Science

There was an invited talk organized by the 'Forum for Great Thoughts'. One of the faculty members got a minor research project on 'Human Rights and Role of NGOs'. The faculty members attended several national seminars and workshops. In the MA Political Science examination of the university the first, second and third ranks were secured by this department. 'The Poor Students Fund' made operational to the needy. The activities of Placement Cell and the Alumni Association were further strengthened during this academic year.

All the teaching, research and extension activities of the department are carried out, bearing in mind the objectives and goals of the institution. The following programmes were successfully implemented in 2009-2010.

1. The department conducts regular NET/SET coaching classes for the postgraduate students.
2. Talented and intelligent students are spotted out and opportunities are given to nurture their talents.
3. Test papers were conducted unit-wise along with objective type tests for P.G and UG students.
4. Newly Implemented: UGC Minor Project. 'Human Rights and Role of NGOs: A Study on Amnesty International (2000-2007)' Rs. 50,000/-
5. Fourteen scholars pursue Ph.D. studies in the department.
6. Students' feedback was collected and appropriate actions were taken.
7. Broadband facility was made available in the department.
8. All students and interested teachers were provided with computer training in the computer centre.
9. A sum of Rs.5000/- was set apart by the department as financial assistance to the poor and needy students.
10. The department instituted four awards and scholarships for students.
11. The department organized three endowment lecturers during the year.
12. The tutors provided proper guidance and counseling. The students who needed more guidance and counseling were sent to the official counselor of the college.
13. We have strong collaboration with Centre for the Study of Developing Societies (CSDS) through the Department of Politics, University of Kerala, Karyavattom.
14. In collaboration with the Ministry of Human Resource Development (MHRD), New Delhi, an awareness programme initiated in Intellectual Property Rights for the public and officials.

Physical Education

The year 2009-10 was very fruitful and eventful for the college in terms of sporting activities and achievements. The college played host to the conduct of the ALL INDIA INTER UNIVERSITY CROSS COUNTRY CHAMPIONSHIP FOR MEN AND WOMEN. About thousand athletes from all over India, representing various universities, participated in the championship. The championship was organized in a grander manner, highlighting the enthusiasm, commitment and teamwork of the entire faculty of the college. The scintillating opening ceremony, conduct of the race and the valedictory function were eloquent testimony to the effort behind the show.

This year the college athletic team retrieved the coveted M.G.University Athletic Championship, after a gap of three years. The Senior State Athletic Championship was also won by our athletics team which was highly acclaimed by the print and electronic media.

The Jose Kokkad Memorial Endowment, instituted by the sports alumni was awarded to outstanding sports alumni. The students represented the college in ten different events in inter collegiate competitions and made it with flying colours. Various state, district and intercollegiate level events were

organized by the department during the year. With a view to provide tangible value education to its students, the following programmes were organized:

1. **Summer Coaching Camp:** Coaching camp for volleyball, athletics, football, tennis and cricket were conducted for college students. The camps were held under the guidance of Sri. Ashish Joseph, Sri. Chacko K A (Athletics coach, KSSC), Sri. Binoj P Johny (volleyball coach, KSSC) and Sri. Jean (KCA).
2. **Bishop Vayalil Volleyball Tournament:** The 32nd Bishop Vayalil All Kerala Intercollegiate Volleyball Tournament for Men & Women was conducted quite successfully. A Total of ten teams in men and women sections participated in the prestigious event. Eventually Baselius College, Kottayam, and Assumption College, Changnacherry, won the championship in the men & women category respectively.

IGNOU

1. Increased enrollment of students. Suitable promotional measures adopted. There were 150 students under the open distance system.
2. More students admitted under the convergence scheme of IGNOU. Number of students under this scheme increased to 130.
3. The computer lab was kept well and all students under convergence scheme were offered Diploma in Computer Application.
4. Ms. Sandra Kentischer from Germany conducted an interactive session for students of Certificate in German Language programme.
5. With a view to coordinating the co-curricular and extra-curricular activities an organization of students called 'IGNOU Students Forum' established. The Forum was inaugurated by Principal Dr. K. K. Jose.
6. Students celebrated Christmas in a special way. They conducted a 'cake mela' and raised funds for their activities. Students made the celebrations meaningful by giving 25gift packets containing new cloths, soaps, etc to the newborn babies at Govt. Hospital Pala.
7. Conducted a 'Meet the Bankers' programme for the benefit of students.

NCC-Army Wing

The NCC Army Wing had an enrolled strength of 160 during the year 2009-10. This included 96 new cadets. The following programmes were organized by the unit during the academic year:

1. Conducted 20 parades in the academic year 2009-10.
2. Celebrated Independence Day, Republic Day and NCC Day. Principal, Dr. K. K. Jose hoisted the National Flag on Independence Day.
3. Ten cadets from this unit participated in the Pre-RD Camp held at KE College Mannanam during 20-30 August 2009. Two cadets were selected for RD Preparatory Camp.
4. Conducted Trekking Expeditions for cadets on 14 January 2010 at Kaippally near Poonjar.

5. The college hosted an ATC and Pre-IGC Camp during 21-30 September 2009. Two hundred cadets participated in the camp.
6. Three cadets participated in the All India Leadership Camp held in Gujarat during 10-21 December 2009.
7. The Army Wing conducted a cycle rally to give awareness to the public about the main causes of cancer. Principal, Dr. K. K. Jose flagged off the rally. Forty cadets participated in the rally.

NCC –Navy Wing: The NCC Naval Wing had an enrolled strength of 50 during the year 2009-10.

1. Conducted 20 parades in the academic year.
2. Celebrated of NCC Day.
3. Celebrated Independence Day with march-past.
4. Thirty-five cadets participated in the ATC held at SB HSS Changanacherry during December 2009. The naval unit won the overall trophy.
5. Fourteen cadets participated in various national level camps during the year.
6. The Naval Wing conducted a trekking to Kaippally hills during February 2010.

NSS

The National Service Scheme Unit KL 043 of the College with its strength of 369 volunteers launched into action early during the academic year 2009-10. Regular activities were organized in the College campus, Kadanad, the partner village and in partner institutions. The partner institutions included Govt. L.P.School, Pala South, Boys Town Orphanage, Pala and Govt. L.P.School, Kadanad. The following programmes were organized:-

1. Three mini camps were organized to make a closer interaction between the volunteers and the society.
2. A seven-day Special Camping Programme was organized during the Onam holidays.
3. Distributed 190 pairs of pants and shirts to the inmates of Anandabhavan Boy's Town Orphanage, Pala on 21 June 2009. Mr. Jose K. Mani M.P. inaugurated the programme.
4. Monsoon cleaning programme was conducted in the campus on 27 June.
5. Distributed uniform cloths to the students of Govt. L.P.School, Kadayam, Pala on 30 June and to the students of Govt. L.P.School, Kadanad, on 01 July 2009.
6. Seminar on world literacy was conducted as part of the observance of World Literacy Week on 07 July.
7. As part of the observance of World Population Day, a seminar on Population was organized on 13 July '09.
8. Observance of Hiroshima Day, a peace rally was conducted on 06 August.
9. Seven-day Special Camping Programme was conducted at Mattathipara during 27 August – 02 September. Mr. P.C. George M.L.A. inaugurated the camp.

10. Anti – Ragging Awareness Programme for Ist year degree students was conducted on 15 September.
11. N.S.S. Day celebrations were inaugurated by Smt. Mini Savio on 24 September.
12. Observance of ‘Nadhee Dinam’ & ‘Nadhee Vandhanam’ was organized in association with All Kerala River Protection Council (AKRPC) and Meenachil River Protection Council on 03 October 2009. Mr. Mullakara Rathnakaran, Honorable Minister for Agriculture, inaugurated the programme. Mr. P. J. Joseph, Honorable minister for Public Works inaugurated the seminar at a function presided over by Sri. K.M. Mani M.L.A.
13. Legal Awareness Programme for IInd year degree students was inaugurated by Smt. M.Sulekha, Hon. District & Sessions Judge, M.A.C.T, Pala at a function presided over by Dr. K.K. Jose, Principal, on 07 October.
14. Paddy cultivation at Padinjattinkara on 09 October. Sri. Joy Chandy Kunnath, member, Grama Panchayath, Mutholy, inaugurated the programme.
15. As part of the observance of Integrated Cleaning Day – observed by Pala Municipality, we cleaned road banks and private bus terminal on 10 October.
16. Blood group detection and preparation of VBD Forum was done on 16 October in association with the Bio-Technology Dept. and Blood Donation Forum of the college.
17. Silent Valley Silver Jubilee Film Show & Photo Exhibition was held on 30 October.
18. As part of the observance of World AIDS Day on 01 December, 19 volunteers donated blood at Blood Bank, Kottayam.

2. New Academic Programme Initiated (UG and PG)

Statistics

Add-on programs and workshops in SAS programming, statistical data analysis, R-programming and statistical ecology were organised.

Physics

An add-on programme called LA-TEX type training is given to UG and PG students. To enhance reading habit among students and to deepen their knowledge in physics, an innovative programme “**SYP - Sharpen Your Physics**” has been launched.

Political Science

The department conducted NET/SET coaching classes for the postgraduate students.

3. Innovations in Curricular Design and Transaction:

Statistics

The syllabi of both M.Sc. Statistics and M.Sc. Biostatistics were revised. The new syllabus was implemented in the year 2009-'10.

A system of peer teaching by research scholars is implemented to supplement regular classes.

Mathematics

In 2009 the university introduced the CBCSS system for UG programmes. A workshop was conducted by the Board of Studies in Mathematics to discuss the implementation of the new system. Two teachers participated in the workshop. The syllabi of five papers were contributed by these members of the department. The Board of Studies accepted these papers and included the courses in the B.Sc. Mathematics programme.

Physics

Teachers in the dept. actively participated in the curriculum design and syllabus modernization programmes of M.G. University. Drafts were prepared and submitted to the university. Remedial teaching is conducted for students in the dept.

Chemistry

The teachers of the department of chemistry actively participated in workshops, seminars and conferences in connection with the revision and modification of syllabi and curricula. Under the newly restructured CBCSS system of undergraduate B.Sc. programme, open courses and choice-based optional courses were included. The dept. offers such courses to the students of chemistry programme and other undergraduate programmes. These courses are of current relevance and the teachers and students have freedom to choose such courses to facilitate effective teaching-learning process. Teachers are expected to equip themselves to meet the needs of the society and to familiarize themselves with modern topics in chemistry such as Nano-chemistry, Green Chemistry, and Polymer Chemistry by attending workshops, refresher courses, seminars and short-term courses.

4. Inter Disciplinary Programmes Started

Physics

Teachers in the department were in the leadership role in organizing JRF/NET training programs in the college for the students of different science departments.

Mathematics

The department offers applicable mathematics as an open course for UG programme. Students of any discipline can join this course. This course meets the requirement of those students who have not adequate knowledge in mathematics. Further, it helps the students of all streams particularly those with arts and commerce background in their higher studies and to face competitive examinations

5. Examination Reforms Implemented

Statistics

Test papers were conducted unit-wise along with objective-type tests for PG students. Also coaching for UGC-CSIR test was given with objective-type model tests.

Physics

Weekly test papers were conducted for students of all the classes in a systematic manner. Seminar presentations by the students were encouraged.

Chemistry

Test papers were conducted paper-wise every month. Exam-oriented remedial coaching was given to weak students. After every internal examination, 'Meet the Parents Programme' is arranged for all classes. Special attention is given for UGC-CSIR test / GATE coaching and model tests.

Biotechnology

Department level internal assessment programme was modified to include objective type test papers in tune with the UGC / CSIR entrance examination and DBT, ICMR competitive examinations.

Work presentation seminars were compulsory for final year students as part of their project work. A system of interviewing was implemented in the department to evaluate the knowledge level of the students.

Zoology

Monthly test papers were given to III DC students. Evaluated answer scripts were returned to students. Students were encouraged to submit corrected answer scripts. Individual care was given in this activity. For I and II DC students, in addition to general mid terminal examinations, unit tests/class tests were also conducted.

English

Pre-dissertation defense (PhD mock viva and defense), mock viva for PG students, unit tests and internal evaluation for UG, UGC-NET objective type tests etc. were conducted for the benefit of students.

Commerce

Mock viva for PG students, unit tests and internal evaluation for UG, UGC-NET objective type tests etc. were conducted.

Economics

Test papers were conducted unit-wise and objective type tests were given. Coaching for NET was also given.

Political Science

Test papers were conducted unit-wise along with objective type tests for P.G and UG students. Coaching for UGC/NET was given to the students.

6. Candidates Qualified: NET / SLET / GATE etc.

Mathematics

Five postgraduate students qualified the UGC-CSIR National Eligibility Test for Lectureship held during June and December 2009.

1. Mr. Jijo Joy
2. Ms Ann Mary Philip
3. Ms.Tiji Mathew
4. Ms. Nisha Mathew
5. Mr. Babin A

Physics

- | | |
|---------------------------|------|
| 1. Ms. Suneetha Sebastain | GATE |
| 2. Ms. Ivy Mathew | GATE |

Chemistry

- | | |
|-----------------------|-----|
| 1. Ms. Bibi Joseph | JRF |
| 2. Ms. Jijamol M. P | JRF |
| 3. Ms. Rajkumar P. R. | NET |

Botany

- NET - Two
- GATE - One

7. Initiative towards Faculty Development Programme

Students evaluate the performance of teachers annually. A brief report of the teacher evaluation by students is given to all teachers. Teachers are encouraged to register for Ph.D. programme and are also given opportunity to attend seminars. They are motivated to utilize the FIP to make their doctoral studies more effective.

8. Total number of seminars/invited talks conducted:

Statistics

One workshop and one invited talk conducted during the year.

Mathematics

One national seminar organized during 11-12 December 2008.

Physics

Five seminars/ invited talks conducted during the year.

Chemistry

One seminar and two invited talks conducted during the year.

Economics

Four workshops/seminars/lectures were organised during the year

1. A One-day Seminar on Financial Sector Reforms was conducted on August 19, 2009. Sri Abraham Tharyan, Executive Director, South Indian Bank Ltd., was the chief guest.
2. On 19th August 2009, Prof. P S Mathew (former HOD of Economics) delivered a talk on the topic 'Financial Sector Reforms and Indian Stock Market'.
3. Dr. V. S. Sastry, Director General, Insurance Regulatory and Development Authority, delivered a lecture on the topic 'Financial sector Reforms and Present Challenges' during the seminar
4. An Inter Collegiate Seminar on 'Global Warming and its Impact on Indian Economy' was conducted on 29th January 2010. Dr T R Vinod, Centre for Environment and Development, Government of India, was the chief guest.

Commerce

During 2009-10 eleven seminars/workshops were organized by the department. The details are given below.

1. On 12th June 2009, an awakening night camp for 3rd B.Com students was held in the auditorium. This was inaugurated by Prof. M.M. Abraham, HOD of Commerce. Prof. Tommy Cherian was the key resource person of the programme. Prof. Johnson Andrews, Prof. K.V.Thomas, Prof. K.V.John and Sri. Bobby Simon were present.
2. On 24th July 2009, another awakening night camp for 1st B.Com students also was held in the auditorium. This was inaugurated by Dr. K.K.Jose, principal and presided over by Prof. M.M.Abraham, HOD of Commerce. Vice principal Rev. Fr. N.V.Joseph graced the occasion. Prof. Tomy Cherian was the key resource person of the programme. Prof. Johnson Andrews, K.V.John, Prof. K.V.Thomas and Sri. Bobby Simon were present.
3. A career orientation seminar for 2nd and 3rd B.Com students was held on June 24th at the Library Hall. The resources persons were Ciby K.C, FCA, and Anumol George MBA of Logic Institute of Commerce, Thodupuzha.
4. An orientation program for management education was held on July 6th for 2nd and 3rd B.Com students in the Library Hall from 1.45 to 3.15 pm.
5. A seminar on opportunities and challenges of chartered accountancy was held for 1st B.Com students at Library Hall on 7th July 2009 between 12.00 and 1.00 pm. The resources persons were Ciby K.C, FCA, Nidhin Jacob and Anumol George MBA of Logic Institute of Commerce, Thodupuzha.
6. A computer awareness seminar was held for B.Com students on October 1st between 1.45 pm and 3.00 pm. The resources persons were Renu Krishnan, Liz Salim, Mathew Joseph and sumesh from G-Tech Computers, Pala.

7. A UGC-NET orientation program for M.Com students was held in Kureethadam Hall on 8th August, 2009 by Dr. K.V. Thomas and Sri. Bobby Simon.
8. A seminar on career awareness was conducted for 3rd B.Com. students on 4th February, 2010 by Dr. Kurian Joseph and team of S.D College Kanjirappally at 12 pm.
9. A seminar on higher education prospects abroad was organized for the 3rd B.Com. students at 1.30 pm in the Library Hall by Ms. Victoria Sukhiala, MD, Southern Seas Education- The International Education Boutique, Mumbai.
10. A seminar on CAT /MAT was conducted on 9th January 2010 by Alphonsa Cyriac of IMS Learning Centre, Kottayam at 2.45 pm in the Library Hall.
11. A seminar on E-taxation was held for B.Com students on 19th November, 2009 in the Library Hall. The resource person was Mr. Ciby K.C, FCA, of Logic Institute of Commerce, Thodupuzha.

9. Research Projects

Mathematics

| | | | | |
|---|--------------------|-----|--------|-----------|
| The properties of invertible fuzzy topological spaces | Dr. Sunil C Mathew | DST | 198000 | 2007-2010 |
|---|--------------------|-----|--------|-----------|

Physics

| | | | | |
|--|---------------------|-----|-----------|-----------|
| Analysis and simulation of plasmonic waveguide structures for subwavelength applications | Dr. Vincent Mathew | DST | 19,02,000 | 2009-2012 |
| Study of electromagnetic fields and propagation in ferroelectric and multiferroic waveguide structures | Dr. Vincent Mathew | UGC | 7, 50,800 | 2009-2012 |
| Studies of the Physico-Chemical Properties of organometallic NLO crystals for photonics device fabrication | Dr. Ginson P Joseph | UGC | 1,15,000 | 2009-2011 |

Chemistry

| | | | | |
|--|---------------------|-----|--------|---------------|
| New Generation Anti-microbial Coating Based on Silver Nanoparticle Dispersed | Dr. Sunny Kuriakose | UGC | 85,000 | 2 Yrs Ongoing |
|--|---------------------|-----|--------|---------------|

| | | | | |
|--|--------------------|-----|--------|---------------|
| Hyperbranched Polyglycerols Containing Multichromophoric Groups (No.MRP(S)-473/09-10 KLMG027/UGC-SWR,dtd.30.11.09) | | | | |
| Investigations on the Fate and Control of Water Pollution Due To Synthetic Detergents No. MRP(S)-499/09-10/KLMG027/UGC-SWR dated Nov 2009 | Dr. Jose K. Xavier | UGC | 75,000 | 2 Yrs Ongoing |

Botany

| | | | | |
|---|---------------------|-----|----------|---------|
| <i>In vitro</i> conservation and reproductive biology of <i>Pittosporum tetraspermum</i> an endangered medicinal plant from Western Ghats (2010-2012) | Dr. Dennis Thomas T | UGC | 3,83,000 | Ongoing |
| KSCSTE (Govt. of Kerala) Project | Dr. Jomy Augustine | | 1310000 | Ongoing |

Commerce

Minor Research Project (for Rs. 75,000 funded by UGC) on “Entrepreneurship Awareness among the Students of Arts and Science Colleges in Kerala” by Dr. V.V. Georgekutty

New Minor Research Project UGC Sanction was obtained for a new minor research project (for Rs.65,000/-) on “The social concern of cooperative hospitals in Kerala; with special reference to Thrissur District” in favour of Prof. M.M Abraham, H.O.D. Commerce.

Political Science:

Newly Implemented: UGC Minor Project. ‘Human Rights and Role of NGOs: A Study on Amnesty International (2000-2007)’ Rs. 50,000.

10. Patents Generated If Any:

Physics

Applied for one patent

11. New Collaborative Research Programmes:

Chemistry

Collaborations on the basis of MOU are not operative at present. However, we establish and maintain research collaborations with many reputed universities and research institutions. The research and analytical facilities of these institutions are shared by the research scholars and teachers of our department. A list such institutions are given below:

1. Johannes-Gutenberg University, Mainz, Germany
2. Pusan National University, Busan, South Korea
3. Indian Institute of Technology, Chennai.
4. Dublin City University, Dublin, Ireland

12. Research Grants Received from Various Agencies:

Statistics

| | |
|-----------------------------|------------------------------|
| UGC Innovative Programme | : Rs. 3.10 lakhs (releasing) |
| DST-FIST Project | : 3 lakhs (released) |
| UGC-Minor Research Projects | : Rs.1.25 lakhs (released) |

Physics

Rupees Fifty-two lakh and two thousand from UGC and DST

Chemistry

| | |
|-------------------|------------------|
| DST-FIST Project | : Rs. 40 lakhs |
| UGC Major Project | : Rs. 613000.00 |
| DST Major Project | : Rs. 1075000.00 |
| DST Major Project | : Rs. 276000.00 |

Biotechnology

The department being a self financing department does not qualify for PG grants funding from UGC and such other agencies. However, 2 project proposals have been submitted to the UGC and Kerala Science and Technology Environment Council for funding.

Botany

1. KSCSTE Research Project (SARD) : Rs. 1,60,000
2. Kerala Forest Department : Rs. 50,000

Commerce

As per the 11th Plan (01-04-2007 to 31-03-2012) UGC has sanctioned Rs. 5, 00,000/- as PG Development Grant. of which Rs. 1, 00,000/- was allocated during 2009-10.

13. Details of Research Scholars:

Statistics

| Sl. No | Name | Full time/ Part time | Area of Research | Supervisor |
|--------|------------------|-------------------------|-----------------------|------------------|
| 1 | Jayamol K.V.* | Full time | Reliability Modelling | K.K. Jose |
| 2 | Uma P. * | Full time | Distribution Theory | K.K. Jose |
| 3 | Shanoja R. Naik* | Full time | Stochastic Modeling | K.K. Jose |
| 4 | Sreejith V. | Part time | Design of Experiments | Alex Thannippara |
| 5 | Dais George | Part time | Data Mining | Sebastian George |
| 6 | Krishna E. | Part time | Order Statistics | K.K. Jose |
| 7 | Jane Luke | Part time | Quality Control | K.K. Jose |
| 8 | Bindu Abraham | Part time | Queuing Theory | K.K. Jose |
| 9 | Lishamol Tomy* | Full time | Stochastic Processes | K.K. Jose |
| 10 | B. Rameshan Nair | Part time | Design of Experiments | K.K. Jose |
| 11 | Ancy Joseph | Part time | Stochastic Modeling | K.K. Jose |
| 12 | Minnu Mathew | Part time | Quality Control | Sebastian George |
| 13 | Aleyamma Mathew | Part time | Biostatistics | K.K. Jose |

* Submitted Ph.D. Thesis for adjudication

Mathematics

| Sl. No | Name | Full time/ Part time | Supervisor |
|--------|---------------------|-------------------------|--------------------|
| 1 | Jose V K | P.T. | Dr. T.P. Johnson |
| 2 | Jyothy Thomas | F.T. | Dr. Sunil C Mathew |
| 3 | Mathew M George | P.T. | Dr. M. S Samuel |
| 4 | Sebastian V D | P.T. | Dr. M. S Samuel |
| 5 | Annie Kurian K | P.T. | Dr. M. S Samuel |
| 6 | Lovelymol Sebastian | P.T. | Dr. M. S Samuel |
| 7 | J.P. Thavamani | P.T. | Dr. D S T Ramesh |
| 8 | Anjaly Jose | F.T. | Dr. Sunil C Mathew |
| 9 | Anitha Thomas | P.T. | Dr. M. S Samuel |
| 10 | P Alayamani | P.T. | Dr. D S T Ramesh |
| 11 | Pratheesh Thomas | F.T. | Dr. M. S Samuel |
| 12 | Ullas Thomas | P.T. | Dr. Sunil C Mathew |
| 1 | Jose V K | P.T. | Dr. T.P. Johnson |

Physics

| Sl. No | Name | Full time/ Part time | Area of Research | Supervisor |
|--------|-----------------|-------------------------|---------------------|-------------------|
| 1 | Gishamol Mathew | Full time | Quantum Electronics | Dr.Vincent Mathew |
| 2 | Anju Babu | Full time | Quantum Electronics | Dr.Vincent Mathew |
| 3 | George James | Full time | Quantum Electronics | Dr.Vincent Mathew |
| 4 | Saji Joseph | Full time | Quantum Electronics | Dr.Vincent Mathew |
| 5 | Jesly Jacob | Full time | Quantum Electronics | Dr.Vincent Mathew |
| 6 | Jolly Andrews | Full time | Quantum Electronics | Dr.Vincent Mathew |
| 7 | Bhagyaraj C. | Full time | Quantum Electronics | Dr.Vincent Mathew |
| 8 | Ajith R. | Full time | Quantum Electronics | Dr.Vincent Mathew |

Chemistry

| Sl. No | Name of Research Guide | Area of Research | No. of Ph.D students |
|--------|------------------------|--|----------------------|
| 1 | Dr.Sunny Kuriakose | Nanochemistry, Supramolecular Chemistry, Organic Chemistry, Polymer Chemistry, Environmental Chemistry | 7 |
| 2 | Dr.Jose K.Xavier | Environmental Chemistry | 2 |
| 3 | Dr.G.D.Gem Mathew | Polymer Chemistry& Technology, Rubber Technology | 1 |
| 4 | Dr.P.J.Benny | Biotechnology | 3 |
| 5 | Dr.B.Prakashkumar | Biochemistry, Biotechnology | 1 |
| 6 | Dr.K.M.Yeldho | Biochemistry | 2 |
| 7 | Dr.Gigymol M.G | Polymer Chemistry | 1 |

Botany

- Sri. Biji Joseph**, HSST, Higher Secondary School, Kothanelloor.

Guide : Rev. Dr. Mathew M.M.

Topic : *Ontogenic Studies of Black Pepper*

Date of Joining : 31-8-2005

2. **Mrs. Anice Thomas**, Lecturer, Sel. Grade, Deva Matha College, Kuravilangad
 Guide : Dr. P.O. Augusthy
 Topic : Utilization of latex coagulating factory effluents and its effect on the growth of selected crop plants
 Date of Joining : 12-8-2005
3. **Sri Salvy Thomas**, Guest lecturer, Department of Botany, S. B. College, Changanacherry
 Guide : Dr. Stephan Joseph
 Newman College, Thodupuzha
 Date of joining : 24 -2 - 2006
4. **Miss Smitha S. Nair**, Scientist, M.S. Swaminathan Research Foundation, Chennai
 Guide : Dr. Jomy Augustine
 Topic : Systematic Revision and Conservation Biology of Myristicaceae of Kerala
 Date of Joining : 4-12-2006
5. **Sri Mathew M. Kuriakose**, HSST, St. Mary,s HSS, Plassanal
 Guide : Dr. Jomy Augustine
 Topic : Floristic diversity of Vagamon Hills, Kerala
6. **Sri Sreejesh KR**, Govt. HSST, Pathinaramkandam, Idukki Dt.
 Guide : Dr. Jomy Augustine
 Topic : Ethnomedicinal plants of Idukki District.
 Date of Joining : 18-5-2008
7. **Sri. Shal Chandran**, St. Thomas College, Pala
 Guide : Dr. P.O. Augusthy
 Topic : Utilization of latex coagulating factory effluents and it effect on the growth of selected crop plants
 Date of Joining : 18-5-2008
8. **Sr. Valsamma V.T.** Lecturer S. S., Little Flower College, Guruvayur
 Guide : Rev. Dr. M.M. Mathew
 Topic : The study of the effect of fertilisers and the growth regulators on growth and reproduction of Moringa oleifera and the relationship with the purification of the polluted water by the plant extract.
 Date of joining : 11 - 1 - 2010

English

| Sl. No. | Name | Full time/ Part time | Supervisor |
|---------|-----------------------------|----------------------|-------------------------|
| 1 | S. Abhilash Mathew | F.T. | Dr. Mathew Joseph |
| 2 | Anju K.N. | P.T. | - do - |
| 3 | V.R.N. Kokila | F.T. | Dr. Mathew Joseph |
| 4 | Rekha Mathews | P.T. | - do - |
| 5 | Sophia James | F.T. | - do - |
| 6 | Lalitha Joseph | F.T. | Dr. Augustine Joseph |
| 7 | Sonia James | F.T. | - do - |
| 8 | Babu K.T. | P.T. | - do - |
| 9 | Vincent Aerathu | P.T. | Dr. P.J. George |
| 10 | Litty Joseph | F.T. | - do - |
| 11 | Aswathy Balachandran | P.T. | - do - |
| 12 | Asha John | F.T. | Dr. T.T. Thomas |
| 13 | Robin Xavier | P.T. | Dr. T.J. Abraham |
| 14 | Jaison Davis | F.T. | - do - |
| 15 | Benoy Kurian Mylampampil | P.T. | - do - |
| 16 | V.M. Jose | P.T. | Dr. H. Sadasivan Pillai |
| 17 | Joseph M.J. | P.T. | - do - |
| 18 | Indu K.S. | P.T. | - do - |
| 19 | Saroj V. Haridas | P.T. | - do - |
| 20 | Sonia Sebastian | P.T. | Dr. Siby James |
| 21 | Sherly George | F.T. | Dr. Jessy Maria |
| 22 | Suja Rani Mathew | P.T. | Dr. Mathew Joseph |
| 23 | Dominic K.V. | P.T. | Dr. George Justine V. |
| 24 | Franci Mathew | P.T. | Dr. Siby James |
| 25 | Litty Lilly Francis | F.T. | Dr. T.J. Abraham |
| 26 | Jose Joseph | P.T. | Dr. Mathew Joseph |
| 27 | Sheeba V. Issac | F.T. | - do - |

Hindi

| Sl. No. | Name | Full time/ Part time | Supervisor |
|---------|--------------------------|----------------------|---------------------|
| 1 | Anish Cyriac | P. T | Dr. C K James |
| 2 | Sr. Marritte A Therattil | P.T. | - do - |
| 3 | A Ramani Ammal | P.T. | -do- |
| 4 | SantyJoeeph | F.T. | Dr. Georgekutty V V |
| 5 | Chandraklekh P | F.T. | - do - |
| 6 | Shija Grace | F.T. | -do- |
| 7 | Soosan Alex | P .T | Dr. K. M Mathew |
| 8 | Rajeemole C R | F.T. | -do- |
| 9 | Neerada Maria Kurian | F.T. | - do - |
| 10 | Nisha S Nair | F.T. | -do- |
| 11 | Rejani V A | F.T. | - do - |
| 12 | Dhanya Sadanandan | F.T. | - do - |
| 13 | Preethi R | F.T. | -do- |
| 14 | Sobhitha Sebastian | F.T. | Dr. Mathew Thomas |
| 15 | Rani Antony | F.T | -do- |
| 16 | Sr. Kochurani Joseph | F .T | -do- |

Commerce

| Sl. No. | Name | Full time/ Part time | Supervisor |
|---------|-----------------------|----------------------|----------------------|
| 1 | Deepu Jose Sebastian | P.T. | Dr. Tharsis Joseph |
| 2 | Thomas V.P | P.T. | - do - |
| 3 | Joseph V.J | P.T. | - do - |
| 4 | Kuriachan George | P.T. | - do - |
| 5 | Anup J. Alackappally | P.T. | - do - |
| 6 | Priya Mariyat | P.T. | - do - |
| 7 | Deepa Mathew | P.T. | - do - |
| 8 | Tomy Jose C | P.T. | Dr. M. Sarangadharan |
| 9 | Paul V.A | P.T. | - do - |
| 10 | K.C. Abraham | P.T. | Dr. Stephen A. |
| 11 | Mr. Gladwin Thomas | F.T. | Dr. V.V. Georgekutty |
| 12 | Ms. Biji Jose | | - do - |
| 13 | Prof. Johnson Andrews | P.T. | -do- |

| | | | |
|----|---------------------|------|----------------|
| 14 | Mr. Joji Mathew | P.T. | - do - |
| 15 | Ms. Nisha Mary Jose | P.T. | - do - |
| 16 | Mary Michael | P.T. | Dr. K.V Thomas |

Political Science

| Sl. No. | Name of the scholar | Full time/ Part time | Guide |
|---------|---------------------|-------------------------|-------------------|
| 1 | T.J. Simon | P.T. | Dr. Cyriac Thomas |
| 2 | Roy Varghese | P.T. | Dr. Cyriac Thomas |
| 3 | S.D. Sathesan Nair | P.T. | Dr. Cyriac Thomas |
| 4 | Binds Kurian | P.T. | Dr. V.V. Varghese |
| 5 | Tomy Joseph | P.T. | Dr. M.M. Mathew |
| 6 | Babu Antony | P.T. | Dr. M.M. Mathew |
| 7 | Joykutty T | P.T. | Dr. M.M. Mathew |
| 8 | Shaji John | P.T. | Dr. M.M. Mathew |
| 9 | M.M. Mathai | P.T. | Dr. M.M. Mathew |
| 10 | Rony K. Baby | P.T. | Dr. M.M. Mathew |
| 11 | Shiji George | F.T. | Dr. P.M. Thomas |
| 12 | Bijukumar VA | P.T. | Dr. P.M. Thomas |
| 13 | Muhammed Russey | P.T. | Dr.M.M Mathew |

14. Citation Index of Faculty Members and Impact Factor:

Statistics

Average: 0.8

Physics

Average: 2, 1.2

Chemistry

Average: 2.1

15. Honors and Awards to the Faculty:

English

Prof. Cherian Vadakkekunnel recognized as Head Trainer of Junior Chamber International.

16. Internal Resources Generated:

Statistics

Seminars/Conferences: Rs.1.20 lakhs

Consultancy Services: Rs.40,000/-

Chemistry

Consultancy Services: Rs.25,000/-

Biotechnology

The department offers self-financing courses only. The following facilities have been introduced in the department utilizing the funds raised internally.

- a.i. Microbiology laboratory
- a.ii. Molecular biology laboratory
- a.iii. Plant tissue culture laboratory
- a.iv. Biochemistry and Enzymology laboratory
- a.v. Animal cell culture laboratory

The department provides microbial analysis of drinking water for the benefit of the public. A fee of Rs. 275 is charged from the beneficiaries. Instrumentation facilities available include:

- Thermocycler (Eppendorf) - 01
- Phase contrast & inverted microscope with photographic attachments (Leica) – 01 each
- Gel documentation system (Biotech) -01
- UV transilluminator
- UV – Visible Spectrophotometer (Shimadzu) – 01
- Visible Spectrophotometers (EI) – 02
- Colorimeters - 02
- Laminar flow chambers - 03
- Bacteriological incubator - 01
- Incubator with shaker - 01
- BOD incubator - 02
- Electrophoresis unit for
- Poly Acrylamide Gel Electrophoresis
 - Mini unit –01
 - Midi Unit -01
- Agarose Gel Electrophoresis – 02
- Digital Colony Counter - 01
- Carbon dioxide incubator (Yorco) -01

- Bacterial strains for antibiotic sensitivity tests
- Refrigerated Centrifuge (Remi) -01
- pH meter
- Deep Freezer (-20°C)
- Autoclave
- Double Distillation Unit

Commerce

Com-Arena receipts - Rs. 88,660/-

Commerce Forum receipts - Rs. 7000/-

17. Details of Departments Getting SAP, COSIST / DST. FIST, etc. Assistance / Recognition:

Statistics

The department is selected for DST-FIST support (2003-2008), UGC Innovative Programme (2005-2010)

Chemistry

The department is selected for DST-FIST support (2008-2013)

Botany

DST sanctioned Rs.40.5 lakhs for the development of the department. The fund is to be utilized over a period of 5 years.

18. Community Services:

Statistics

Dr. K.K. Jose is the joint treasurer of St. Vincent De Paul Society, Palai CC and PTA President of Alphonsa College, Palai. Dr. Benny Kurian serves as secretary/treasurer of various clubs like Y's Men's, Rotary International, YMCA, etc. and is involved in various community services. Dr. Alex Thannippara is general secretary of Fr. T.C. Joseph Thannippara Trust for Education.

Mathematics

Our teacher Mr. Thankachan Augustine is the programme officer of National Service Scheme.

Prof. J Chandramohanam is the controller of internal examinations in the College. Dr. V K Jose is the coordinator of examinations in the college and he is the coordinator of the general time-table. Sri Tommy Thomas is the secretary of staff cooperative society and the president of the Parent Teachers Association of the Sanjos Public School and Junior College, Choondacherry. He is the unit secretary of the teachers' organization A.K.P.C.T.A.

Physics

- Dr. Michael Augustine – College Council and IQAC Member
- Prof. Raju Mathew T – Canteen Society Secretary
- Dr. Simon Augustine – Internal Assessment - College Coordinator
 - Dr. Sunny Mathew –N S S Program Officer, RACS Cell Coordinator
- Dr. Ison Vanchipurackal – Coordinator of Cultural activities

Chemistry

Prof. C. J. John actively participated in the anti-narcotic drive and also in the move for helping poor people. Prof. Jogy Alex is the PTA President of Chavara International Public School, Palai

English

- Prof. Cherian Vadakkekunnel served as an active member and Head Trainer of Junior Chamber and YMCA. He is director of Career and Placement Cell which provides career consultancy outside the college also.
- Dr. Thomas Augustine is treasurer of Alumni Association which makes substantial contribution to community development.
- Prof. Franci Mathew is the PTA president of Carmel Public School, Pala.
- Prof. P.J. Johnson is joint secretary of UPASANA, A Centre for Religio-Cultural Integration, Thodupuzha.

Hindi

Dr. C K James is treasurer of Alumni Association which makes substantial contribution to community development.

Commerce

- Prof. M. M. Abraham is the president of Poovarani Service Cooperative Bank
- Dr. K. V. Thomas is a certified Career Counsellor.
- Dr. V. V. Georgekutty is member of the Senate of M. G. University, Kottayam; Coordinator, IGNOU Study Centre; and President, St. Thomas College Staff Cooperative Society.

Economics

Dr Joy George is the PTA president of Alphonsa High School Bharananganam.

History

Rev. Dr James John is appointed as the warden of the college hostel.

19. Teachers and Officers Newly Recruited: nil

20. Teaching – Non-teaching Staff Ratio:

| | | |
|--------------------|---|-------|
| STATISTICS | : | 10:01 |
| PHYSICS | : | 09:03 |
| CHEMISTRY | : | 10:05 |
| BIOTECHNOLOGY | : | 04:01 |
| BOTANY | : | 07:02 |
| ZOOLOGY | : | 03:01 |
| ENGLISH | : | 13:01 |
| HINDI | : | 06:01 |
| GERMAN | : | NA |
| SYRIAC | : | NA |
| COMMERCE | : | NA |
| ECONOMICS | : | NA |
| PHYSICAL EDUCATION | : | 02:01 |

21. Improvements in the Library Services:

Statistics

New books purchased. Library time extended.

Mathematics

Library time extended from.

Physics

186 new books were added to the physics section of the library.

Chemistry

The department encourages the faculty and students to make use of all the books and journals on chemistry and related subjects available in the library. The department regularly makes arrangements for the purchase of latest edition books on chemistry. 152 new books were added to the chemistry section of the library.

Botany

Books worth Rs. 24,000/- purchased

English

Library time extended. New books purchased.

Hindi

Library time extended. New books purchased.

Economics

Library time extended. The department took initiative for the purchase of latest edition books in the general library.

History

Library time extended. More books purchased.

Political Science

The library time has been extended. More books purchased.

22. New Books/ Journals Subscribed and Their Value:**Mathematics**

Books worth Rs. 1, 03,053/- purchased.

Chemistry

The following is the list of textbooks chemistry recommended by the department and purchased by the College Library during the year 2009-'10. The books cost Rs.30, 000.

| <u>Sl. No.</u> | <u>Author</u> | <u>Title</u> | <u>Publisher</u> |
|----------------|---------------|--|------------------|
| 1. | Bhutani | Chemistry of Biomolecules | Ane Books |
| 2. | Ahluwalia | Medicinal Chemistry | Ane Books |
| 3. | Carey | Advanced Organic Chemistry : Structure and Mechanisms | Springer |
| 4. | Keele | Advanced Structural Inorganic Chemistry | Oxford |
| 5. | Gilchrist | Heterocyclic Chemistry | Pearson |
| 6. | Brahmachari | Organic Name Reactions : A Unified Approach | Narosa |
| 7. | Warren | Organic Synthesis : The Disconnection Approach | Wiley India |
| 8. | House | Fundamentals of Quantum Chemistry | Elsevier |
| 9. | Kar | Application of Redox and Reagents in Organic Synthesis | New Central |

| | | | |
|-----|-------------|---|------------------|
| 10. | Levine | Quantum Chemistry | Prentice Hall |
| 11. | Pal | Nomenclature of Organic Compounds | Narosa |
| 12. | Nasipuri | Stereochemistry of Organic Compounds | New Age |
| 13. | Ahluwalia | Organic Reaction Mechanisms | Narosa |
| 14. | Silverstein | Spectrometric Identification of Organic Compounds | Wiley India |
| 15. | Kar | Fundamentals of Organic Synthesis (Retrosynthesis) | New Central |
| 16. | Ghosh | Advanced General Organic Chemistry Parts 1 & 2 | New Central |
| 17. | Mendham | Vogel's Textbook of Quantitative Chemical Analysis | Pearson |
| 18. | Lee | Concise Inorganic Chemistry | Oxford |
| 19. | Christian | Analytical Chemistry | Wiley |
| 20. | Karak | Fundamentals of Polymers - Raw Materials to Finished Products | Prentice Hall |
| 21. | Rao | University General Chemistry | Macmillan |
| 22. | Ahluwalia | Green Chemistry | Ane books |
| 23. | Engel | Therodynamics; Statistical Thermodynamics and Kinetics | Pearson |
| 24. | Bahadur | Principles of Polymer Science | Narosa |
| 25. | Ahluwalia | Polymer Science : A Textbook | Ane Books |
| 26. | Brahmachari | Organic Chemistry Through Solved Problems | Narosa |
| 27. | Engel | Quantum Chemistry & Spectroscopy | Pearson |
| 28. | Rodgers | Inorganic and Solid State Chemistry | Thomson |
| 29. | Roop | Solid State Chemistry | Elsevier |
| 30. | Greenwood | Chemistry of the Elements | Elsevier |
| 31. | Roop | Solid State Chemistry | Elsevier |
| 32. | Manahan | Fundamentals of Environmental Chemistry | Taylor & Francis |
| 33. | Bhutani | Chemistry of Biomolecules | Ane Books |

Commerce

A total of 60 new books purchased at a cost of Rs.14,238/-

Economics

A total of 150 new books purchased at a cost of Rs. 50,000/-

Political Science

The value of the books purchased came to Rs. 2.5 lakhs during these years (2007-2012).

23. Courses in which student assessment of teachers is introduced and the action taken on the student feedback:

Physics

PG Students recorded appreciation and satisfaction in the performance of the teachers.

Chemistry

The department collects feedback from teachers and students of both UG and PG programmes. The suggestions of the students and teachers are presented in the workshops for curriculum revision. After each examination, the students are asked to give in writing the suggestion about the question pattern, topic-wise distribution of questions, performance of teachers, etc.

Biotechnology

The department has a very efficient mechanism of teacher evaluation by students. A detailed questionnaire regarding the methods of teaching is provided to the students to make a clear and honest analysis of the teachers' performance.

Botany

A detailed questionnaire is designed on this regard. Feedback from students is collected using the questionnaire. Suggestions are discussed in the departmental meetings and selected recommendations are implemented.

English

In all programmes students' assessment was introduced and teachers take individual and collective effort to implement their suggestions through class tests, special classes, remedial teaching, etc.

Hindi

In all programmes students' assessment was introduced and teachers take individual and collective effort to implement their suggestions.

Commerce

- a) In both B.Com. and M.Com. programmes student assessment was introduced and teachers take individual and collective effort to implement student suggestions through class tests, special classes, remedial teaching etc.

- b) Besides, the department has resolved to motivate outstanding and enterprising students to achieve success in their academic life by providing necessary guidance and encouragement. Special guidance and orientation is provided to the students who are weak in studies.

Economics

In all courses students' assessment is introduced and teachers were advised to take the suggestions of students positively.

History

In all courses students' assessment is introduced. Teachers take keen interest in implementing the suggestions for improvement.

Political Science

Students' feedback is collected and appropriate action is taken.

Physical Education

Students' feedback is collected and appropriate action is taken.

24. Unit Cost of Education

Statistics

Unit cost of education is Rs.32000/- per student.

Chemistry

Unit cost of education is Rs.32000/- per student.

Biotechnology

Being a self-financing course the students are charged a semester fee of Rs 31,500/- as fixed by the university.

English

Unit cost of education is Rs.32000/- per student.

Economics

Unit cost of education is Rs.32000/- per student.

26. Computerization of administration and process of admissions and examination results, issue of certificates:

The process of admission is as stipulated by the university. Conduct of examination and declaration of results of each semester are also done by the university. The departments do not have any flexibility in these matters.

Once admission is over the student profile and progression is all documented and updated regularly. The overall administrative functioning is also to a good extent computerized. Maintenance of accounts and other activities are also computerized. The administrative office of

the college and all departments in the college are partly computerized and automated. The process of admission, examination and issue of certificate are also computerized.

27. Increase in Infrastructure Facilities

Statistics

Necessary improvements have been made to the infrastructural facilities.

Botany

1. A separate computer room has been built with two computers
2. A separate instrumentation room was built for keeping sensitive instruments.
3. A separate herbarium has been built
4. A separate seminar hall with modern audiovisual equipment was set with fixed LCD and computer.
5. A fully-equipped mist chamber and a green house were built.
6. A fully-equipped audiovisual and recording room with sound proof cabin was built. Two video cameras and computers were purchased for use in the department. Two documentary films were produced by using these facilities.
 - a. Sunderbans
 - b. Vagamon
7. New equipment purchased: NIL

28. Technology Upgradation

Statistics

PC's were repaired and upgraded.

Physics

All instruments were repaired and upgraded

Chemistry

All instruments were repaired and upgraded

Biotechnology

The introduction of a Certificate Course in Bioinformatics made it necessary to improve the installed technology. The students are getting an opportunity to make use of bioinformatics software. This is done with the support of the Department of Biostatistics.

English

More computers installed. LCD projector introduced.

Hindi

More computers installed. LCD projector introduced.

Commerce

More computers installed. LCD projector introduced. Students and teachers have access to computers and Internet connectivity available in the department, library and at the computer centre.

Economics

Computers were repaired and LCD projector purchased.

Political science

Broadband facility is made available in the department.

IGNOU

Established a computer centre with ten computers, one LCD projector and one printer-cum-photo copier

29. Computer and Internet Access and Training to Teachers and Students

Statistics

All teachers and students in the department are provided with free Internet facilities and computer. Our faculty and students make use of all these facilities. Students typeset their project reports in Latex mathematics software.

Chemistry

All teachers and students in the department are provided with free computer and Internet facilities. Our faculty and students make ample use of all these facilities.

Biotechnology

The department has enough computer facilities with Internet connectivity, which is used by the teachers to update their knowledge. In addition both staff and students use the Computer Center, University Study Center and the College Library.

Botany

The department has a computer room with three computers. Students are given free access to computers. Internet facility is also available.

English

All teachers and students of the dept. are provided with computer and Internet facility.

Commerce

Computerization implemented in all areas. For admissions, merit lists are prepared using computer software

Political Science

Broadband Internet facility is made available in the department. All the students and interested teachers are provided with computer training at the computer centre. Students and teachers are taking advantage of these facilities.

Economics

The process of general administration, admission, examination result, issue of certificates, etc are partly computerized and automated.

Physical Education

All teachers in the department are provided with free Internet facilities and computer.

IGNOU

The newly established computer centre and Internet connectivity is open to all students and teachers.

30. Financial Aid to Students:

Chemistry

- KPCR scholarship

Biotechnology

- Apart from university scholarships available to meritorious students, the department encourages the students to apply for the UGC-sponsored Indira Gandhi Scholarship for Single Girl Child and such other scholarships available. Selected students are given merit scholarships sponsored by the PTA. The College supports the students to take out education loans from banks.

Botany

KPCR scholarships, PTA scholarships and other scholarships instituted at the college and department levels are available to students.

English

- KPCR scholarship – 24 (Full fee concession)
- PTA Merit Scholarship for Rank Holders – 1
- PTA Scholarship – 5
- Indira Gandhi Scholarship for Single Girl Child – 3
- Endowments – 3

Hindi

- KPCR scholarship – (Full fee concession)
- PTA Merit Scholarship for Rank Holders – 1
- PTA Scholarship – 2
- Endowments – 2

Commerce

| K P C R Scholarship | | |
|--|------------------------|---------------|
| Class | No. of Students | Amount |
| III B. Com | 19 | 12540 |
| II .B. Com | 11 | 7260 |
| I B. Com | 18 | 11880 |
| II M. Com | 3 | 1980 |
| I M.Com | 2 | 1320 |
| Total (Rs. 660 per student) | 53 | 34980 |
| Special Scholarship for OBC/ST/SC Students | | |
| III B. Com | 11 | 52250 |
| II .B. Com | 9 | 42750 |
| I B. Com | 12 | 57000 |
| II M. Com | 3 | 14250 |
| I M.Com | 3 | 14250 |
| Total (Rs.475 per student per month for10 months) | 38 | 180500 |

Economics

| K P C R Scholarship | | |
|----------------------------|------------------------|---------------|
| Class | No. of Students | Amount |
| III B.A. Economics | 16 | 20720 |
| II .B. A. Economics | 17 | 20740 |
| I B.A. Economics | 17 | 27115 |

| | | |
|--------------------|----|---------------|
| II M. A. Economics | 07 | 16100 |
| I M. A. Economics | 13 | 33280 |
| Total | 30 | 117955 |

Political Science

KPCR Scholarship is available to students. A sum of Rs.5000/- has been set apart by the department as financial assistance to the poor and needy students.

Awards and scholarships

1. Bishop Vayalil Scholarship – Top scorer in MA Politics examination
2. Fr. Joseph Kinattukara cash award – Student who gets highest marks in BA Politics examination
3. Dr. Cyriac Thomas Endowment Scholarship – Top scorer in final BA Politics
4. Vayalikalappura Endowment Scholarship – Top scorer in Final MA Politics.

Physical Education

Outstanding athlete with meritorious performance is provided with free boarding and lodging.

31. Activities and Support from the Alumni Association:

Statistics

The alumni actively take part in the functioning of the department. They sponsored a quiz competition to be held every year, in the name of late Prof. K. Ramakrishna Pillai.

Chemistry

Alumni Association is active. Prof. T. M. Jose is the Secretary of the Alumni Association

Zoology

Alumni meeting of the 1989-1992 batch was conducted on December 8, 2008. All the teachers, including retired teachers, and 25 students out of 27 in the batch assembled for a one-day programme.

English

The Alumni give active support to all activities of the Dept. They contributed several educational CDs (based on novels recommended for study) and books.

Hindi

The alumni gave active support to all the activities of the dept. They contributed several journals and books.

Commerce

Family get-together (B.Com: 1993-96)

The B.Com. 1993-96 batch had a one-day gathering along with the present teachers and the members of their families on 26th December, 2009 at 5 p.m. in the library hall. Dr. K.K. Jose, Principal, inaugurated the get-together and, Prof. M.M Abraham, HOD of Commerce, presided over the function.

Get-together (B.Com: 2005-08)

The B.Com. 2005-08 batch had a one-day gathering along with the present teachers on 26th December, 2009 at 6 p.m. in the college auditorium. Dr. K.K. Jose, Principal, inaugurated the get-together and, Prof. M.M Abraham, HOD of Commerce, presided over the function.

Prof. John Zacharias Endowment Scholarship

This endowment instituted by the Commerce Alumni is intended to acknowledge the top outgoing students of M.Com. and B.Com. In the year 2009-10 the following students were awarded the scholarship:-

M. Com.

| | | |
|-------------------|------------------|------------|
| 1 st – | Neethu Jose | Rs. 1000/- |
| 2 nd - | Gayathri S. Nair | Rs. 750/- |
| 3 rd - | Tintu Joseph | Rs. 500/- |

B. Com.

| | | |
|-------------------|-----------------|-----------|
| 1 st – | Tony John | Rs. 750/- |
| 2 nd – | Rohith Chandran | Rs.500/- |

Prof. K. Philip John Memorial Academic Foundation

This foundation was instituted by the Commerce Alumni in honour of the late Prof.K. Philip John, former HOD of Commerce. The foundation organized several curricular and co-curricular activities during the year 2009-10.

Inter-Collegiate Seminar and Research Paper Presentation:

An Inter-Collegiate Seminar and Research Paper Presentation contest for M.Com. students of Mahatma Gandhi University was held on 4th and 5th March, 2010 in the Library Hall under the auspices of Prof. K. Philip John Memorial Foundation. More than 130 M.Com. students participated in the program. H.E.Mar Joseph Pallikkaparampil, Bishop Emeritus, inaugurated the seminar and Dr. K.K.Jose, Principal, presided over the function.

The chief guest of the valedictory meeting was Very Rev.Msgr.Eanas Ottathengunkal. Cash awards and certificates were distributed to the winners.

Economics

The alumni are active in supporting departmental activities.

Political Science

The department has a very active alumni association. The association members meet once or twice a year

Physical Education

The Alumni Association has a separate alumni forum for sports and they have instituted Prof Jose Kokkad memorial endowment for the outstanding sports person of the year.

31. Activities and Support from the Parent-Teacher Association

Statistics

PTA is highly active. At least 2 meetings are held in a year.

Physics

PTA meeting is held for all the classes.

Chemistry

After every internal examination, we arrange 'Meet the Parents Programme' for all classes

English

The PTA has given financial support to weak students. They meet two times a year.

Hindi

The PTA has given books and study materials to weak students. The alumni as well as former teachers of the department meet frequently.

Commerce

The department arranged parents' meetings on 8th August 2008 and 13th February 2009 for II B.Com students. Parents' meetings of I and III B.Com. students were held on 13th February and 23rd January 2009 respectively.

Economics

PTA is active and regular meetings at class level and college level are organised.

Political Science

The Parent Teacher Association, university and Government provide adequate encouragement for studies in the form of scholarships, financial assistance, free boarding and lodging etc. At least two meetings are held in a year

Physical Education

The Parent Teachers Association provides whole hearted support for the development of sports and games in the college. Apart from the boarding charges of the students, merit award is given by the PTA to the Best Sportsperson and Best Athlete annually.

IGNOU

Conducts PTA meeting twice in a year. Proper remarks are entered in the students' tutorial record.

33. Health Services

Statistics

Health orientation classes and free medical and blood testing camps were conducted.

Chemistry

Health orientation classes, free medical checkup and eye testing camps were organized.

English

Health orientation classes were organized and nursing care provided to students.

Hindi

Classes in health and hygiene were organized and nursing care provided to students.

Commerce

Health orientation classes were organised. The Blood Donation Cell of the college is coordinated by Prof. K. V. John of the dept. It gives opportunity to students and teachers to give the most valuable health/social service.

Economics

At the college level health orientation classes, free medical facilities, blood group detection camps, etc. are arranged.

History

At the college level health care classes, free medical check up and blood group detection camps are arranged. Students of the dept. are members of the Blood Donation Forum.

Political Science

A health centre and doctors-on-call services are provided. The college maintains a tie-up with the nearby hospital, Marian Medical Centre. The common medical facilities are available to our students

34. Performance in Sports Activities:

Statistics

The students of the college perform excellently well in sports and games at university, state, national and international levels.

English

The college teams (wrestling, basketball, and athletics) won several matches at university, state and national levels. Students of the dept. participated in such events.

Hindi

The college teams (wrestling, volleyball, and athletics) won several matches at University, State and National levels.

Political Science

Many of the outstanding sports students of the college are the students of the department and they bring laurels to the college, university and to the state.

Physical Education

A) Performance at all india inter-university and national level competitions.

| SL.No | NAME | EVENT | DATE & VENUE | PERFORMANCE |
|-------|----------------|---------------|---------------------------------------|-------------|
| 1 | GIREESH KUMAR | VOLLEYBALL | DECEMBER 2009 YOUTH NATIONAL, EKM. | GOLD |
| 2 | ASWIN KUMAR | DECATHLON | DECEMBER 2009 MADRAS UTY, CHENNAI | BRONZE |
| 3 | VIJITH VIJAYAN | 4X400 | DECEMBER 2009 MADRAS UTY, CHENNAI | BRONZE |
| 4 | SUJUMON KS | CROSS COUNTRY | SEPTEMBER 2009 M.G.Uty KOTTAYAM | GOLD |
| 5 | VIPIN FRANCIS | CROSS COUNTRY | SEPTEMBER 2009 M.G.Uty KOTTAYAM | GOLD |
| 6 | SREEJITH S | CROSS COUNTRY | SEPTEMBER 2009 M.G.Uty KOTTAYAM | GOLD |

B) Performance of the college at the m.g.university inter collegiate competitions

This year we fielded teams in 10 events in the intercollegiate championships.

| SL.No | EVENT | VENUE | PERFORMANCE |
|-------|---------------|-------------------------------------|---------------|
| 1. | CROSS COUNTRY | ST JOSEPH'S COLLEGE, MOOLAMATTOM | WINNER |
| 2. | KABADDI (M) | STC, PALA | FOURTH |
| 3. | SWIMMING | LNCPE, TVM | RUNNER-UP |
| 4. | WATER POLO | LNCPE, TVM | RUNNER-UP |
| 5. | ATHLETICS | MAHARAJA'S, ERNAKULAM | WINNER |
| 6. | CRICKET | CMS, KOTTAYAM | PARTICIPATION |

| | | | |
|-----|--------------|--------------------------|---------------|
| 7. | FOOTBALL | MARTHOMA, THIRUVALLA | PARTICIPATION |
| 8. | POWERLIFTING | SD COLLEGE, KANJIRAPALLY | RUNNER-UP |
| 9. | VOLLEYBALL | ST THOMAS, KOZHENCHERY | PARTICIPATION |
| 10. | BODYBUILDING | SD COLLEGE KANJIRAPALLY | RUNNER-UP |

List of students who got selected to represent the university in the all india inter university championships

1.

| SL.NO | NAME | CLASS | EVENT | VENUE |
|-------|---------------|-----------------|---------------|--------------|
| 1. | SUJUMON KS | I BA ECONOMICS | CROSS COUNTRY | M G KOTTAYAM |
| 2. | VIPIN FRANCIS | I Msc PHYSICS | " | " |
| 3. | MANU MATHEW | III BA POLITICS | " | " |
| 4. | SREEJITH | I MA | " | " |
| 5. | SHAN K | I MA MALAYALAM | KABADDI | DNP |
| 6. | TERIN JOHN | II BA MAL | WATER POLO | CALCUTTA |
| 7. | VINESH K | I BA MAL | " | " |
| 8. | JAISON | I BA MAL | " | " |
| 9. | JIBY PETER | II MA MAL | ATHLETICS | CHENNAI |
| 10. | JOSEPH M.G | III BA POL | " | " |
| 11. | VIPIN FRANCIS | III Bsc PHY | " | " |
| 12. | ROBIN JOSE | II BCom | POWERLIFTING | - |
| 13. | ASWIN KUMAR | I MA | ATHLETICS | CHENNAI |

35. Incentives to Outstanding Sports Persons:

The Parent Teachers Association provides whole-hearted support for the development of sports and games in the college. Apart from the boarding charges of the students, merit award is given by the PTA to the Best Sportsperson and Best Athlete annually. The Alumni Association has a separate alumni forum for sports and they have instituted Prof. Jose Kokkad memorial endowment for the outstanding sportsperson of the year.

36. Students' Achievements and Awards

Mathematics

Five postgraduate students of our department qualified the UGC-CSIR National Eligibility Test for Lectureship held during June and December 2009. The list is given below.

1. Mr. Jijo Joy
2. Ms Ann Mary Philip
3. Ms.Tiji Mathew
4. Ms. Nisha Mathew
5. Mr. Babin A

Physics

- | | |
|-----------------------|------|
| 1. Suneetha Sebastain | GATE |
| 2. Ivy Mathew | GATE |

Chemistry

UGC-CSIR test qualified: **Four**

Botany

UGC-CSIR test qualified: **TWO**

Commerce

Commerce students participated in intercollegiate competitions held in six colleges during the year and secured cash awards and prizes

Political Science

- | | |
|------------------|---------------------------------|
| 1. Binu Joseph | -I Rank, MA Political Science |
| 2. Midhun Raj | -II Rank, MA Political Science |
| 3. Davis C Jacob | -III Rank, MA Political Science |
| 4. Sijo Mathew | -Obtained UGC- NET |
| 5. Kannan K.N | -Obtained UGC- NET |

37. Activities of Guidance and Counseling Unit:

Statistics

Three faculty members are approved /qualified counselors and they provide counseling service.

Mathematics

Prof. J Chandramohanam is the coordinator of guidance and counseling in the department.

Special care for weaker students: About 20 students in each division in UG 15 in PG classes are assigned to a mentor. The mentor examines the student's profile including his family background, school education and career aspirations and finds out if any help is needed. If needed a student can even avail himself of the general counseling facility available in the college.

If a student is found weak in some topics the assigned mentor will direct him/her to the appropriate teacher for tutorial sessions and the respective teacher finds time to equip him/her with t problem-solving capability in the particular subject.

Physics

Prof. M P. Mathai is actively involved in the activities of the Anti-Narcotic Cell.

Chemistry

The teachers of the Department of Chemistry have played a major role in the activities of the Career Guidance and Placement Cell. Mock interviews and group discussions are arranged for students.

Botany

Four students from final year degree course and four students from PG course utilized the counseling help available in the college.

English

One faculty member is an approved and qualified counselor and provides such service.

Hindi

One faculty member is a qualified trained counselor and provides counselling service.

Commerce

One of our faculty members, Dr. V. V. Georgekutty, is a certified counselor. Need-based counseling is given to students. Exceptional cases are referred to the official counselor of the college. Counseling help is provided to all students as part of the tutorial work.

Economics

Needy students are directed to the official counselor of the college.

Political Science

The tutors provide proper guidance and counseling. The students who need more guidance and counseling are sent to the official counselor of the college.

38. Placement Services Provided to Students:

Chemistry

The following activities are undertaken by the teachers in charge of Career Guidance and Placement Cell in the department.

- i) Display on the department notice board, articles and advertisements relating to higher studies and job opportunities.
- ii) Organisation of career orientation classes for the students.
- iii) Conduct of coaching classes for Joint CSIR-UGC test for JRF and Lectureship.
- iv) Organization of intensive coaching programmes for students seeking campus placement.
- v) Organization of campus interviews for students of the final year degree/post graduate classes.

Biotechnology

Information about biotechnology-related industries and research institutions in India is made available to the students. Syllabus of Joint CSIR/UGC examination and study materials are supplied to students. Project formats of UGC, DST, and ICMR are made available to students on demand. Copies of question papers related to Ph.D. entrance examination of M.G University are available for ready reference. The list of students who got placement is given below:-

1. Presenna Rajan, Lecturer. St. Therasa's College, Ernakulam
2. Joby Jose, Lecturer, Mar Thoma College, Thiruvalla

Economics

There is a qualified career counselor in the department. We provide guidance and organize campus interviews. During 2008-09, five of the MA Economics students got placement in various private banks.

Political Science

With the personal influence of the faculty members, many of our students received placements in reputed institutions as teachers, researchers, executives, administrative staff, etc.

39. Development Programme for Non-Teaching Staff:

Training in computer application, office automation and service matters is arranged at college level.

40. Healthy Practices of the Institution

Statistics

At the department level, at least one staff meeting is organized at the beginning and at the end of each term. Also, duties are assigned to each teacher at the beginning of the academic year.

Mathematics

Mathematic Quiz Team

Ms. Jilumol and Ms. Syma Soman of I M.Sc. Mathematics have won the first prize in the All Kerala Inter-collegiate Mathematics Quiz Competition for the Sr. Luciya Ever-rolling Trophy organized by B.C.M. College, Kottayam.

Chemistry

At the department level, at least one staff meeting each is organized at the beginning and at the end of every semester. Duties are assigned at the beginning of the academic year to each teacher

Biotechnology

Duties are systematically assigned between members of the department. Timely implementation of assignments is ensured. Internal assessment system is properly monitored. Teacher evaluation by students is introduced. This has helped in increasing the level of performance of the teachers. Practical sessions are made research-oriented. The department functions for 9.30 hrs. a day from 9am to 6.30pm. Tutorial system is adopted.

Students are encouraged to participate in academic seminars and workshops as well as in extracurricular activities such as blood grouping camps, water testing and cleaning programmes, mushroom cultivation, etc.

English

Staff meetings are convened regularly. At the beginning of the academic year duties are assigned to teachers.

Hindi

Regular staff meetings are convened. At the beginning of the academic year duties are assigned to teachers for the for the smooth functioning of the dept.

Commerce

Activities of the Commerce Forum

Inauguration

The activities of the Commerce Forum for the academic year 2009-2010 were formally inaugurated on 28th October 2009 by Adv. Jose Tom M.Com, LLB, President, Meenachil Service Co-operative Bank Ltd. Dr. K.K. Jose, Principal of the college, presided over the

meeting. Prof. M.M.Abraham, HOD, Commerce, and Prof. Johnson Andrews, Director. Commerce Forum, offered felicitations.

Com Arena 2009

The Commerce Forum organized an inter-collegiate competition “ComArena 2009 – the Fight to Test the Best” for the commerce and management students on 1st December 2009. Product launching, business quiz, solo and best manager were in the arena for competition. More than 150 students from 15 colleges of MG University participated in the tough fight. This inter-collegiate festival was formally inaugurated by. Very Rev Msgr. Eanas Ottathengunkal, Manager of the college at a meeting presided over by Dr.K.K Jose, Principal. Cash awards amounting to Rs.35,000/- and certificates were distributed to the winners by Adv. Joy Nadukkara Ex. M.P. and President, Meenachil Rubber Marketing & Processing Society Ltd.

Valedictory

The valedictory meeting of the Commerce Forum was held on 4th February 2010 at the library hall. Prof. K.K.Abraham, President, Pala Rubber Marketing Society Ltd. was the chief guest. Principal Dr. K.K.Jose presided over the meeting. Prof. M.M. Abraham, HOD, Commerce, offered felicitation. Mr. Georgekutty Sebastian, President, Commerce Forum, welcomed the gathering and Mr. Zacharia Mathew, Secretary, proposed the vote of thanks._

Economics

At the department level, at least one staff meeting is arranged at the beginning and at the end of each term. Duties are assigned in the beginning of the term to each teacher and evaluation is made at the end of the term.

Political Science

The principle of decentralization is fully implemented in all the departmental activities and involvement of all the faculty members is ensured.

41. Linkages with National / International, Academic / Research Bodies

Physics

The dept. has established research collaboration with:-

V. Dutta, IIT Delhi

D.K. Avasthi, IUAC, New Delhi

Chemistry

The members of our department have excellent linkages with many reputed institutions and bodies at national and international levels.

Botany

The department of botany has fresh and healthy contact with the following agencies and persons that are actively engaged in biodiversity, ethnobotanical and ethnopharmacological studies:

- Tropical Botanical Garden and Research Institute, Thiruvananthapuram.
- Non-Wood Forest Produce Division, Kerala Forest Research Institute, Kerala.
- Department of Botany, University of Calicut, Kerala.
- Rubber Research Institute of India, Kottayam, Kerala.
- Forest Department, Kerala State
- National Bureau of Plant Genetic Resources, Thrissur, Kerala.
- National Biodiversity Strategy and Action Plan (NBSAP), New Delhi.
- Rajeev Gandhi Centre for Biotechnology, Thiruvananthapuram
- Thampan Mavida Medical Centre. Pala
- Foundation for the Revitalisation of Local Health Traditions, Bangalore
- Nagarjuna Herbal Concentrates, Thodupuzha, Kerala
- Centre for Environmental Management of Degraded Ecosystems, University of Delhi.
- Periyar Foundation, Thekkady, Kerala
- Asian Biodiversity Conservation, Delhi
- Periyar Foundation, Thekkady, Kerala

Economics

The department has excellent linkages with many reputed economists and universities

Political Science

- We have strong collaboration with Centre for the Study of Developing Societies (CSDS) through the Department of Politics, University of Kerala, Karyavattom.
- In collaboration with the Ministry of Human Resource Development (MHRD), New Delhi, an awareness programme will be initiated in intellectual property rights for the public and officials.

42. Any Other Relevant Information the Institution Wishes to Add

The college is sixty years old and celebrated the diamond jubilee during the academic year. The Hon. Chief Justice of India, Justice K. G. Balakrishnan lit the lamp marking the inauguration of the diamond jubilee celebrations on 27 February 2010. On the eve of this historic day, the UGC recognized the college as a College with Potential for Excellence. This college is a leading centre of higher education with 12 UG and 14 PG programmes, and facilities for research in 12 disciplines.

The CPE scheme aims at strengthening the academic and physical infrastructure for achieving excellence in teaching, research and outreach programmes besides promoting flexible and effective governance. Other goals include enhancing the quality of the teaching and learning process at the UG and PG levels with help of a flexible credit based modular system and the

whole range of innovations currently accepted globally; promoting academic programmes relevant to the socio-economic needs of the nation and improving undergraduate education in colleges by the interfacing of the PG programmes. The programmes under this scheme include academic improvement, use of IT and ICT methods, office automation, library networking with online facilities, strengthening of science laboratories, improvement of the college library, participation in sports and games as also other student facilities, retaining of teaching and non-teaching staff, revamping examination and tutorial systems, emphasis on research and extension activities, collaborations and linkage with internationally reputed research institutes, helping poor students, etc. The college started innovating and experimenting in the undergraduate programme using modern methods of teaching, learning and evaluation and introducing flexibility in the choice of courses at UG level. The college would like to act as a role model in all aspects like curriculum development, teaching, learning and evaluation, research consultancy and extension, effective organization and management as well as governance through various healthy practices for excellence.

Part C

This section gives the details of the plans for the year 2010-11

Mathematics

1. Special orientation for UGC-NET and other competitive examinations
2. Recognition/awards to the alumni who reap achievements in their fields of work.
3. Scholarships to deserving students on merit-cum-means basis.
4. New Infrastructural facilities in M.Sc. classes
5. Mathematics Day and Merit Evening celebrations.
6. More seminars and invited talks.

Physics

The departmental IQAC held on 31-03-2010 chalked out the following programs to be implemented in the coming academic year.

1. To enhance reading habit among students and to deepen their knowledge in physics, the meeting decided to implement the program PSD- Problem Solving Drive.
2. The meeting also decided to organize more seminars and invited talks for the benefit of both the students and teachers.
3. The meeting decided to strengthen the activities of the Physics association and the PTA.
4. The meeting discussed the modalities of implementing the new UG curriculum in the coming academic year.
5. Decided to organize a national workshop on “Maintenance of electronic laboratory equipment”.
6. Decided to organize a one-day acquaintance programme on “Computer-interfaced science experiments”.
7. Decided to organize a refresher course in “Condensed Matter Physics and Statistical Physics”.

Chemistry

1. Renovation and modernization of research labs
2. Acquisition of more library books
3. Decided to conduct more invited talks and seminars
4. Updating of computer lab by installing new software
5. Decided to strengthen the activities of the Chemistry Association and Alumni association
6. More thrust to UGC-NET coaching and remedial coaching
7. Scholarships to deserving students on merit-cum-means basis.

Biotechnology

1. Improving infrastructure facilities by procuring modern instruments for improving the levels of practical skill of the students

2. To conduct more interaction between biotechnology industries and the department
3. To develop a bioinformatics laboratory within the department so that the teachers and students are exposed to advances in this area of study. For this the existing computer facilities and Internet linkage need to be enhanced.
4. Purchase of software for bioinformatics
5. Starting HACCP programme for applied microbiology students

Botany

1. Setting up of a microbiology lab
2. Setting up of a computer lab with network, allowed free to students.
3. Modernization of labs, classrooms, etc.
4. Assess the EFL status of various places in Kerala State.
5. Plant diversity survey, collection, identification of plant genetic resources and rearing of rare and threatened plants with special attention to potential medicinal plants; threat status assessment by field surveys
6. Identifying plant species with high carbon dioxide assimilating potential
7. Studies on the phytochemical parameters and analysis for the delimitations of Plant Taxa (Phytotaxonomy) including the finding of new plant-borne chemicals
8. Study of the genetic diversity of selected groups especially medicinal and crop plants
9. *Ex-situ* conservation of rare and threatened endemic plants
10. In vivo conservation of the gene pool of medicinal plants and wild relatives of crop plants
11. Exploration of soil micro flora and bacteria and assessment of soil and water quality
12. Audio-visual documentation of plant diversity including bacteria and soil micro flora as the main categories
13. Involvement of students of PG and UG courses in all the above said opportunities of plant science research.

Zoology

1. Modernisation of the B.Sc. lab
2. Acquiring at least 5 more computer terminals for conducting computer practical
3. Acquiring one more LCD projector and a laptop
4. Equipping the department to meet the challenges and potentials of the credit and semester system in the degree course.

English

1. Peer teaching as a healthy practice.
2. Formation of study groups to facilitate learning.
3. Introduction of enhanced interactive teaching methods.
4. Brainstorming sessions.
5. Holding regular alumni meeting.

6. Special sessions for UGC-NET, Civil Service examinations etc.
7. Classwise PTA meeting.
8. Research orientation programme for PG students.
9. Staging of one-act plays.
10. Strengthening remedial teaching programmes.
11. Think-tank sessions.
12. Mock viva in each semester for the PG students.
13. Conducting aptitude tests.
14. Study tours with a special focus on the linguistic diversity existing between communities in the states of India vis-à-vis their use of English language.
15. Career orientation-cum-personality development programmes for both UG and PG students.

Hindi

1. To Implement peer teaching as a healthy practice.
2. Formation of study groups to facilitate learning.
3. Introduction of enhanced interactive teaching methods.
4. Holding alumni meeting.
5. Special orientation for UGC-NET, Civil Service examinations etc.
6. PTA meeting.
7. Research orientation programme for PG students.
8. Strengthening remedial teaching programmes.
9. Model viva in each semester for the PG students.
10. Study tours with a special focus on the linguistic diversity existing between communities in the northern states of India.

German

To offer the certificate course in German Language of Indira Gandhi National Open University to all students under the department.

Syriac

Students will be encouraged to visit places of Syriac inscriptions.

Commerce

Details of the Plan for the Next Year

Duties Assigned

- | | |
|---|-------------------------|
| 1. Alumni, Peer teaching, Invited talks | - Prof. M.M. Abraham |
| 2. Commerce Forum | - Prof. Johnson Andrews |
| 3. Academic audit, Exams and Assessment | - Dr. Sunny Joseph |

- | | |
|--|------------------------|
| 4. Placement, Personality Development Cell | - Dr. K.V. Thomas |
| 5. Research, Extension and Consultancy | - Dr. V.V. Georgekutty |
| 6. Admissions, Support to students | - Prof. K.V. John |
| 7. Department Secretary | - Bobby Simon |

Proposed Activities in 2010-11

1. Duty allocation among faculty members.
2. Model viva for IV Semester M.Com. students (June)
3. Alumni Interactive Programme (June)
4. Registration of Commerce Alumni Association
5. Preparation of Internal Academic Audit reports and other allied annexure and files. (July)
6. Inaugural function of the Golden Jubilee celebrations of the department and alumni meet (July)
7. Peer teaching by II PG(III SEM) students in II B.Com (Aug)
8. Admissions – July & August
9. Organizing seminars, workshops and invited talks by eminent academicians, and practicing chartered accountants.
10. Centralized mid-term test paper by the department in July and November.
11. Commerce Forum inauguration - August
12. Seminar/Workshop/ Invited talks - (June, December, March)
13. Onam celebration - August
14. Com Arena- (Inter-Collegiate Commerce Fest) - October
15. Christmas Celebration - December
16. Valedictory - March
17. Research Extension and Consultancy Cell
18. Organization and inauguration of the cell, inter-collegiate seminar on research reporting, extension programs and consultancy services
19. Meeting of research scholars, presentation of their work progress (Dec) etc. PG students are also expected to benefit out of it.
20. Parents' Meet - Twice in an academic year (Class teacher- in charge)

| | | | |
|-----------|---|-----------|----------|
| I B.Com | - | September | February |
| II B.Com | - | July | February |
| III B.Com | - | July | January |
| I M.Com | - | November | |
| II. M.Com | - | October | |
21. Result Analysis (January)

22. Academic audit – March
23. Induction Programme (Com Nox) (January)
24. Synopsis presentation of II. M.Com. Students (March)
25. Remedial classes, support to weak students and motivation to outstanding ones, identifying weak students, promoting the enterprising, etc
26. Study tour for III DC (November) and II M Com (January)
27. Staff tour (February)

Economics

1. A two-day induction programme for 1st year MA Economics students(September 2010)
2. Economics Association inauguration (October 2010)
3. A one-day seminar on Capital Market in India: Prospects and Challenges- (December 2010)
4. A two-day Youth Leadership Programme for 2nd year MA students in association with Nehru Yuva Kendra (February 2011)
5. Union budget analysis (March 2011)
6. Budget Analysis Competition for the students (March 2011)
7. Academic audit (March 2011)
8. Study tour for III DC and II M A during November 2010

History

1. More department level activities to be planned.
2. Special training for competitive exams.
3. Alumni meet of the graduates.
4. Scholarships to meritorious and deserving students.
5. Remedial coaching to degree students.
6. A series of short-term workshops and seminars to be conducted.

Political Science

1. Special orientation for UGC-NET, Civil Service examination etc.
2. It is decided to depute as many faculty members as possible to participate in the orientation and faculty improvement programmes , seminars, workshops etc.
3. A one- day seminar is proposed in collaboration with the Institute of Parliamentary Affairs (IPA), Trivandrum - for the students.
4. The department is planning to have a tie-up with Palai Municipality as part of its extension activities. As part of this programme we intend to impart practical training to students in the decentralization process in local administration and governance especially in e- governance.
5. The department has started a pilot study in participatory development programme in the assembly constituency of Pala.

6. Degree students, as part of their syllabus, will be given an opportunity to watch the functioning of the State Legislative Assembly.
7. Prof. M.T. Thariyan Endowment Lecture will be conducted every year.
8. Prof. N.C. Mathewkutty Endowment Lecture
9. Forum for Great Thought.

Physical Education

1. Renovation of the swimming pool
2. Construction of indoor stadium
3. Maintenance of the playfield
4. Starting of new course in sports journalism
5. Strengthening the college volleyball and athletic team

IGNOU

1. To conduct an induction programme at the beginning of the coming academic year
2. To conduct a 'cake mela' during the Christmas celebrations with a view to raise fund for the activities of the IGNOU Students' Forum.
3. To organize a value education programme for students.
4. To organize seminars promoting employability and practical knowledge of students.
5. To conduct a quiz competition targeting students of feeder courses on an all-Kerala basis.
6. To further increase students' enrollment in the regular batch
7. To reserve 20% seats for women.

NCC (Army)

1. Total parades to be conducted - 20.
2. Celebration of Independence Day, Republic Day and NCC Day.
3. Organize a cycle rally as part of its awareness programmes.
4. Visiting charitable institutions as part of NCC Day celebrations.
5. Arranging training and orientation programmes for cadets.

NCC (Naval)

1. Total parades to be conducted - 20.
2. Celebration of Independence Day, Republic Day and NCC Day with march-past and other functions.
3. Organisation of sailing expeditions.
4. Visiting charitable institutions as part of NCC Day celebrations.
5. Arranging training and orientation programmes for cadets.

Appendix 1

Research papers published

I. Department of Statistics

1. **K.K.Jose**, M. Ristic, Ancy Joseph; “Marshall- Olkin Bivarite Weibull distributions and processes”, *Statistical Papers*, DOI 10.1007/s00362-009-0287(2009).
2. . **K.K.Jose**, M. Ristic, Ancy Joseph; “ Marshall- Olkin Beta Distributions and its Applications, *Journal of Probability and Statistical Science*., **7(2)**,173(2009).
3. **K.K.Jose**, Lishamol T.; “ Geometric Laplace Distributions and Processes”, *Stochastic Modeling and Applications*, **10(1)**, 1(2009).
4. **Seemon Thomas**, A. M. Mathai; “p-Content of a p-parallelotope and its connection to likelihood ratio statistic”, *Sankhya: the Indian Journal of Statistics*, **71A (1)**, 1(2009).
5. **K.K.Jose**, V.Seethalekshmi;” Discrete Laplace Processes”, *Stochastic Modeling and Applications*, **10(2)**, 47(2009).
6. **K.K.Jose** and K.V. Jayamol; “On a characterization of Geometric lifetime distribution using a.p.g.f. ordering”, *J. Indian Sta.Assoc.*, **46(1)**,23(2009).
7. **K.K.Jose**, V. Seethalekshmy, Mathachan M. Pathiyil; “Interger valued skew laplace processes and stress strength models”, *Science & Society*, **7(1)**, 37(2009).
8. **K.K.Jose**, Shanoja R.Naik; “A stress-strength model using q-Weibull distribution and realated special functions”, *JKSA* **20,1**(2009).
9. **K.K.Jose** and Lishamol Tomy; “Generalized Brownian Laplace processes”. *Research lines*, 2(1), 30(2009).
10. **K.K.Jose** and Lishamol Tomy; “A unified frame work for Gaussian and Non Gaussian AR(1) modeling”, *Journal of Probability and Statistical Sciences* **8(1)**, 109(2009).
11. **K.K.Jose**, Uma P., V. Seethalekshmy, H.J. Haubold; “Generalized Mittag-Leffler distributions and processes for applications in astrophysics and time series modeling, DOI 10. 1007/978-3-642-03325-4-9, Springer Verlag, 79(2010).
12. **K.K.Jose** and Uma P; “ marshal-Olkin generalized Mittag-Leffler distribution and processes “, *Far East journal of Theoretical Statictics*, **28(2)**, 189(2009).
13. **K.K.Jose**, P. Uma, J. Sreekumar, Lishamol tomy; “ Math modeling of gene expression data”, *Recent Developments and Applications of Probability Thory, Random Processes and Random Variables in Computer Science*, 223(2009).
14. **Sebastian George**, Dais George; “Analysing tail heaviness of web server data”, *International journal of web Applications*, **1**, 204(20090).

15. S. Shaijin, Renu David, Anil C. Mathew; “Association between Obesity and asthma among adults: A hospital based case-control study”, *Asian Journal of Epidemiology*, **2(2)**, 33(2009).

II. Department of Botany

1. **Jomy Augustine**; “Tropical rain forests in South India”, In: *Shifting Trajectories of Ecology and Co- existence*, Kerala Forest Department(2009).
2. **Jomy Augustine**; ‘Diversity, distribution, flowering periodicity and causes of rarity of *Strobilanthes bloom* in the High ranges, Western Ghats, India”, *ENVIZ Bulletin*, Dehradun (2009).
3. **Thomas T.D.**; Sankar S.; “Multiple shoot induction and callus regeneration in *Sarcostemma brevistigma* Wight & Arn, a rare medicinal plant”, *Plant Biotechnology Reports* 3;67(2009).
4. **Thomas T.D.**; “ Isolation, callus formation and plantlet regeneration from mesophyll proplasts of *Tylophora indica* (Burm. F.) Merrill. a Medicinal plant”, *In Vitro cellular and developmental Biology- Plant*, **45**;591(2009).
5. Abraham J. Cheruvathur M.K., **Mani B.**, **Thomas T.D.**, “ Micropropagation of *Cyclea Peltata* (Lam) Hook & Thoms by enhanced auxiliary branching”, *Industrial Crops and Products*, **31**;92(2010).
6. Cheruvathur M.K. Abraham J., **Mani B.**, **Thomas T.D.**, ‘Adventitious shoot formation from cultured intermodal explants of *Malaxis Acuminata* D. Don, a terrestrial medicinal orchid, *Plant Cell Tissue Organ Culture* (In press).
7. **Thomas T.D.**, Hoshino Y.; “in vitro shoot multiplication and callus regeneration in *Justicia gendarussa* Burm. F. an important medicinal plant” *Acta Physiologia Plantarum* (In Press).

III. Department of English

1. **T.J. Abraham**; “Levinas and Eology”, *Journal Dharma*, 2009.
2. **Joy Jacob**; “Anger Against Grand Narratives”, *Research Lines*. June 2009.
3. **Joy Jacob**; “A Lady Oracle in the Wild; Eco-Feminist Ethos in Margret Atwood’s Novels”, *Research lines*, December 2009.
4. **Joy Jacob**; “Politics of Gender in Travel Writing”, *Research Lines*, June 2010.

IV. Department of Physics

1. George James, Saji Joseph and **Vincent Mathew**; “Simulation of high –k dielectrics in counter doped double gate metal oxide semiconductor field effect transistors”, *Journal of Nanoelectronics and Optoelectronics*, 5,1(2010).
2. George james, Saji Joseph and **Vincent Mathew**; “ Sealing effects on subthreshold leakage current in fully depleted DG- mosfets”, Accepted in *Journal of Active and Passive Electronic Devices* (2010).

3. George James, Saji Joseph and **Vincent Mathew**; “ Effect of counter doping thickness on double gate MOSFET characteristics”, Accepted in *Journal of Semiconductor technology and Science* (2010).
4. K.Kumar P. Arun, C.R. Kant. N.C. Mehra and **Vincent Mathew**; “ The effect of cesium metal clusters on the optical properties of cesium iodide thin films”, *Applied physics A* 99,305 (2010).
5. **Michael Augustine, Sunny Mathew and Vincent Mathew**; “Tunable wave propagation in linear ferrite film bounded by Kerr-type media” *AEU- international Journal of Electronics and communications*, **63(5)**, 338(2009).
6. **V.V. Ison**, A. Ranga Rao, V.Dutta, P.K. kulriya, D. K. Avasthi, S.K. Tripathi; “Swift heavy ion induced structural changes in Cds thin films possessing different microstructures: A comparative study’, *J.Appl.Phys.***106**,023508(2009).
7. **V.V. Ison**, A. Ranga Rao, V.Dutta, “ Characterization of spray deposited CdTe films grown under different ambient conditions, “*Solid State Sciences* **11**,2003(2009).
8. **V.V. Ison**, A. Ranga Rao, V.Dutta, P.K. Kulriya, D. K. Avasthi; “ Swift heavy ion induced phase transition in CdTe films deposited by spray pyrolysis in presence of electric field”, *Nucl.instrum. and Methods*, B **267**(2009).
9. **V.V. Ison**, A. Ranga Rao, V.Dutta, “ Stabilization of hexagonal phase in spray deposited CdTe films by the presence of electric field”, *Sol. Energy Mater. Sol. Cells*, **93**,1507(2009).
10. **Ginson P. Joseph**, Jacob Philip, N. Melikechi, J. Madhavan, P. Sagayaraj; “Studies on the electrical, linear and non- linear optical properties of manganese Mercury thiocyanate bis dimethyl sulfoxide-an efficient NLO crystal”, *Physica B; Condensed Matter*,**404**, 295(2009).
11. P. Sagayaraj and **Ginson P. Joseph**; “ Investigations on the physicochemical properties of thiocyanate and allylthiourea complex crystals for blue-violet laser light generation”, *Journal of Materials Science: materials in Electronics*, **20**; 390(2009).
12. **Ginson P. Joseph**, S. Senthil, S. Pari, P. Sagayaraj, J. Madhavan; “Thermal, Mechanical, Electrical, Linear and nonlinear optical properties of a nonlinear optical L-ornithine monohydrochloride single crystal”, *Physica B: Condensed Matter*, **404**,2336(2009).

v. Department of Chemistry

1. Aneyamma Varughese, Cincy George and **Sunny Kuriakose**, “Assessment of Nutrients and Organic Carbon Content in the Sediments of Meenachil River”, *Pollution Research*, 28(2), 149(2009).
2. Aneyamma Varughese, Cincy George and **Sunny Kuriakose**, “Seasonal Analysis of Meenachil River with Reference to Biological Parameters”, *Indian Journal Of multidisciplinary Research*, 5(2), 245(2009).

3. **Sunny kuriakose**, Shaiju Augustine, Cicy George, Tessymol Mathew, and Mary Joseph: “Cis-Trans Isomerisation in functionally modified poly (di(ethylene glycol)/glycerol-alt-adipicacid) Polyol Containing Azo Groups; A Novel Photoswitchable System”, *Indian journal of Multidisciplinary Reaserch* (2009), (Accepted, in Press).
4. Cicy George, **Sunny Kuriakose, Prakashkumar B.**, Suraj Soman, Tessymol Mathew, and Bijal K.B.; “Synthesis, Characterisation and Antibacterial Activity of Silver Nanoparticle Dispersed Hyperbranched Polyglycerol”, *Journal of Microbiology, Immunology and Infection* (2010),(Accepted, Under Revision).
5. Cicy George, **Sunny Kuriakose**, Prakashkumar B. and Tessymol Mathew; “Synthesis, Charaterisation and Anti bacterial Applications of water soluble, Silver Nanoparticle Encapsulated β – Cyclodextrin”, *Supermolecular Chemistry* (2010),(Accepted, Under Revision).
6. **G.D. Gem Mathew**; “Concept of Green Chemistry in Environmental Protection”, *Research Lines- Interdisciplinary Research Journal*, **II(1)**, 49(2009).
7. Sherley Annie paul, **G.D. Gem Mathew** et.al; “Dynamic Mechanic Analysis of Novel Composites from Commingled Poly Propylene Fiber and Banan Fiber’; *Polymer Engineering and Science*, **50(2)**, 384(2010).

VI. Department of Mathematics

1. **Sunil C. Mathew**, Anjaly Jose; “H- fuzzy Topological Spaces”, *The Journal of Fuzzy Mathematics*, **18(1)**,117(2010).
2. Ullas Thomas, **Sunil C. Mathew**; “ On set Indexer Number of complete K –Partite Graps”, *International Journal of mathematics and Computation*, 5(D09),18(2009).
3. **Sunil C. Mathew**, “On the Properties of Adjacent Fuzzy Topologies”, *Bulletin of the Calcutta Mathematical Society* **102(3)**,213(2010).
4. **Sunil C. Mathew**, Anjaly Jose, “On Invertible Fuzzy Topological Spaces”, *The Journal of Fuzzy Mathematics*, **18(2)**,423(2010).
5. **Sunil C. Mathew**, Anjaly Jose, “ Invertible and Completely Invertible Fuzzy Topological Spaces”, *The Journal of Fuzzy Mathematics*, **18(3)**, (2010).
6. **Sunil C. Mathew**, Anjaly Jose, “ On The Structure of Invertible Fuzzy Topological Spaces”, *Advances in Fuzzy Sets and Systems*, **5(2)**,153(2010).
7. Ginu Varghese, **Sunil C. Mathew**; “ On the Characterizing Lattice of an L-Fuzzy Topological Space”, *Far East Journal of Mathematical Sciences*, **39(1)**,159(2010).
8. Ullas Thomas, **Sunil C. Mathew**; “ On Topological Set Indexers of Graphs”, *Advances and Applications in Discrete Mathematics*, **5(2)**,115(2010).
9. Anjaly Jose, **Sunil C. Mathew**; “Some Properties of Invertible Fuzzy Topological Spaces”, *Far East Journal of Mathematical Sciences*, **40(1)**,67(2010).

Papers Presented at International/ National Seminars/ Conferences/ Workshops

Department of Physics

1. Jesly Jacob, Anju Babu, Gishamol Mathew and Vincent Mathew; “Surface Plasmon Polaritons in nano- waveguides with semiconducting guiding layer”, At the International Workshop on Electron Devices and Semiconductor Technology(IEDST)”IIT Bombay 1-2 June 2009.
2. George James, T. Saji Joseph and Vincent Mathew; “Reduction of Off-state Leakage current in Fully Depleted DG MOSFETS”, at the International Conference on Emerging trends in Electronic and Photonic Devices, ELECTRO-2009,BHU, Varanasi,22-24 December 2009.
3. Saji Joseph, George James T. and Vincent Mathew; “ Effect of channel layer doping on the performance of nanoscale DG MOSFETS”, at the International conference on Emerging Trends in Electronic and Photonic Devices, ELECTRO-2009,BHU, Varanasi,22-24 December 2009.
4. George James, Saji Joseph and Vincent Mathew; “ Simulation of short channel effects in double gate mosfets for nanoscale design”, at ICON 2010, Coimbatore, India.
5. Gishamol Mathew, Anju Babu, Jesly Jacob and Vincent Mathew; “ Simulation of subwavelength confinement of optical energy by surface Plasmon polaritons in metal nanostrip waveguides”, at ICON 2010, Coimbatore, India.
6. Seena Mathew, bhagyraj C. and Vincent Mathew; “ Propagation characteristics of superconductor/ferroelectric multilayer waveguide”, at the National Conference NCSCV 2010, Coimbatore, India.
7. Jolly Andrews and Vincent Mathew; “Numerical study of vortex effects in superconducting microstrip lines”, at the National Conference NCSCV2010, Coimbatore, India.

Department of Chemistry

Dr. Sunny Kuriakose;

1. “ Light Harvesting and related Phenomonena in Nanoparticle Dispersed Dendritic Polymers Containing Photoresponsive Group”, at Group Monitoring Workshop and national seminar Organised by the Department of Science and Technology, Govt. of India at Indian Institute of Integrative Medicine, Jammu, 25-27 February 2010.
2. “ Silver Nanoparticles in Hyperbranched Polyglycerols: Synthesis, Characterization and Antibacterial Activity”, at the National Seminar on Nanoscience and Nanotechnology(NSNST), Fathima matha National College, Kollam, 23-25 March 2010.

Department of Botany

1. Abraham J. Cheruvathur M.K., Thomas T.D.; “A quick in vitro propagation of *Cyclea peltata* (Lam) Hook.F. & Thoms”, at the National Conference on Modern Trends in Plant in vitro Biology, Department of Plant Science, School of Life Sciences, Bharathidasan University, Tiruchirappalli, Tamil nadu, 5-6 January 2009.
2. Cheruvathur M.K., Abraham J.; Thomas T.D.; “In vitro regeneration of *Ipomoea sepiaria* Roxb.- An important ethnomedicinal plant by direct organogenesis”, at the National Conference on modern Trends in plant in vitro Biology, Department of plant Science, School of Life Sciences, Bharathidasan University, Thiruchirappally, Tamil nadu, 5-6 January 2009.
3. Abraham J., Michael R., Thomas T.D.; “effect of plant growth regulators on shoot multiplication and callus regeneration of an ethnomedicinal plant, *Vallisneria spiralis* (L.) L. KTZE”, at the National Seminar on Imperatives for Sustainable Development, Department of Botany and Chemistry, Carmel College, Mala, Kerala, 25&26 February 2009.
4. Mani B., Thomas T.D.; “ callus induction and organogenesis from shoot tip explants of *Momordica dioecia* Roxb. An endangered medicinal plant”, at the national Seminar on Imperatives for Sustainable Development, Department of Botany and Chemistry, Carmel College, Mala, Kerala, 25 & 26 february 2009.
5. Jomy Augustine; “ Diversity distribution, flowering periodicity and causes of rarity of *Strobilanthes bloom* in the high Ranges Western Ghats, India”, at the International Symposium on angiosperm Systematic and Phylogeny; retrospect and Prospects, national Botanical Research Institute (NBRI), Lucknow, on 12-14 November 2009.

Department of History

Rev Dr. James John presented a research paper in the International Seminar organized by the Institute of Research in Social Sciences and Humanities at Tellicherry on the topic, “The Portuguese and the Religious Changes on the Coastal Areas of Peninsular India during the Sixteenth Century.”

Appendix 2

International/ National Seminars/ Conferences/ Workshops Attended

DEPARTMENT OF PHYSICS

1. Dr. Vincent Mathew participated in the International Workshop on “Electron Devices and Semiconductor technology (IEDST)”, at IIT Bombay during 1-2 June, 2009.
2. Dr. Ison V. Vanchipurackal attended the National Seminar on Astronomy at St. Joseph’s College, Devagiri, Calicut on 10 October 2009.
3. Dr. Ison V. Vanchipurackal attended the National Seminar on ‘nanostructured Materials and Nanophotonocs’ at St. Teresa’s College, Ernakulam during 4-5 February 2010.
4. Dr. Simon Augustine and Dr. Sunny Mathew attended the National Workshop on ‘Materials Characterization by Diffraction Methods’ conducted by school of Pure and Applied Physics, M.G. University, Kottayam, during 24-25 February 2010.
5. Prof. Raju Mathew attended the National Workshop on Astronomy and Astrophysics conducted by IUCAA, Pune from 15 may to 15 June 2009.

DEPARTMENT OF CHEMISTRY

1. Dr. G. D. Gem Mathew has attended
 - i. 97th Indian Science congress Organized by the University of Kerala and Indian Space Research Organization (ISRO) at Thiruvananthapuram during 3-7 January 2010.
 - ii. APT’10- International Conference on Advances in Polymer technology, Organized by the Department of Polymer Science and Rubber technology, Cochin University of Science and Technology at J.J. Murphy research Centre, Rubber park of India(P0 Ltd., Irapuram during 26-27 February 2010.
2. Prof. Jogy Alex and Dr. G. D. Gem Mathew have attended the workshop for College Chemistry Students and Teachers Organized by Jawaharlal Nehru Centre for Advanced Scientific research (JNCASR), Bangalore; Foundation for Capacity Building in Science (FCBS), Trivandrum and Department of Science and Technology (DST), Government o of India, at Residency Tower , Thiruvananthapuram during 29-31 October 2009.

DEPARTMENT OF BOTANY

Dr. Dennis Thomas T. has attended

- i. Seminar on ‘Current Concepts in Biotechnology’, organized by Department of Botany, University College, Thiruvanthapuram, on 24 march 2010.
- ii. Seminar on ‘GM Crops and Food Security’, organized by Kerala Biotechnology Commission and KSCSTE at Sastra Bhavan, Pattom, Thiruvananthapuram on 17 November 2009.

DEPARTMENT OF MATHEMATICS

Dr. sunil C. Mathew has attended

- i. Workshop for College Teachers in connection with the Mathematics Talent Search and Nature Programme 2010 organized by the Department of Mathematics, University of Calicut and sponsored by NBHM on 5 and 6 April 2010.
- ii. Mathematics talent Research & Nurture Programme 2010 organized by the Department of Mathematics, University of Calicut and funded by National Board for Higher Mathematics, Department of Atomic Energy, Government of India, during 3 to 22 April 2010.

Invited Lectures Delivered by the Faculty

DEPARTMENT OF STATISTICS

1. Dr. K.K.Jose(Principal) has delivered the following invited lectures:
 - (i) ‘Integer valued Laplace Distributions and Their applications’, in the dept. of Statistics, Shivaji University, Kolhapur on 4 and 5 July 2009.
 - (ii) “Mittag –Leffler distributions and Autoregressive Processes” in the DST- sponsored National Seminar on Fractional calculus and its applications in Statistics at the Centre for Mathematical Sciences, Pala on 24 and 25 November 2009 organized as part of India Mathematics Year Celebrations.
 - (iii) “Stochastic Modeling and Challenges” in the Prof.S.Abraham lecture series held at S.B. College, Changanacherry on 10 November 2009.
 - (iv) “Marshall-Olkin distributions and Their Application’ in the International Conference on Statistics and its Applications at the Dept. of Statistics, University of Pune during 21-23 December 2009.
 - (v) “Statistical distributions and their applications in Stochastic Processes, Time Series Modeling and Reliability Analysis” in the Indian Science Congress held at Thiruvanthapuram during 3-7 January 2010.
 - (vi) “Marshell-Olkin Bivariate Weibull distributions and Their Applications in Reliability and Time Series Modeling” in the International Conference on Statistical Applications in Informatics at the Dept. of Statistics, Loyola College, Chennai during 12-14 january2010.
 - (vii) “Integer Valued Autoregressive Processes and Their Applications” in the International Conference on Statistical Theory and Applications at the Dept. of Statistics, Kuwait University during 22-25 January 2010.

- (viii) “q-Weibull Counting Processes and Their Applications” in the UGC –sponsored Seminar on Applied Statistics at the Dept. of statistics, Nirmala College, Muvattupzha during 25-27 February 2010.
- 2. Dr. Joy Jacob gave an invited talk on “Relevance of Statistics”, in the Seminar Organized by the Bureau of Economics and Statistics, Govt. of Kerala at MT Seminary School, Kottayam on 19 December 2009.
- 3. Dr. Sebastian George gave an invited lecture on the topic “Simultaneous Models” at the John Mathai Centre, Trichur on 14 July 2009.

DEPARTMENT OF BOTANY

Dr. Jomy Augustine (HOD) has delivered the following invited lectures:

- i. “Nature Beauty of Kerala” at Baselius College, Kottayam on 17 September 2009.
- ii. “Aesthetics of Biodiversity and Ecotourism”, at Tholpetty Forest Range Office, Wayanad on 25 July 2009.
- iii. “Methodology of Ethnobotany”, at National Seminar on Ethnobotany at St. Theresa’s College, Ernakulum on 6 October 2009.
- iv. “Biodiversity Conservation” at Biodiversity Centre, Karimbam, Calicut on 8 October 2009.
- v. “Flora of Aralam WLS”, at the Silver Jubilee celebration of Aralam WLS.
- vi. “Age of Disappearing –the Process of Organic Extinction”, at St. Joseph’s college of Teacher Training on 10 December 2009.
- vii. “ Plant Taxonomy and Conservation’, at the National Seminar on ‘Taxonomy vis a vis conservation’ at Government College, Kazaragod on 17 December 2009.
- viii. ‘ Flora of Malabar Wildlife sanctuary’, at the National Seminar on ‘Malabar sanctuary and Biodiversity Conservation’, at Jubilee Hall, Calicut on 20 March 2010.

DEPARTMENT OF CHEMISTRY

Dr. Sunny Kuriakose has delivered an invited talk on “How to Prepare major and Minor Research projects”, at the Seminar Organized by the Research Cell, St. Stephen’s College, Uzhavoor, on 17 March 2010.

Resource Persons for Seminars/Workshops/Refresher Courses

DEPARTMENT OF STATISTICS

- 1. Dr. Joy Jacob was the chief recourse person for the Seminar on Applications of statistics in Pharmacy’ held at MG University, Cheruvandoor campus on 26 September 2009.

2. Dr. Joy Jacob was the chief resource person for the Seminar on Testing of Hypothesis” held at St. Thomas Training College, Pala on 12 October 2009.
3. Dr. Seemon Thomas was the Chief resources person for the Seminar on ‘Quality Control Techniques’ held at Amal Jothi College of Engineering, Kanjirappally on 19 August 2009.
4. Dr. Sebastian George was the chief resource person for the seminar on ‘Introduction to Markov Chain Monte Carlo Methods’ held at University of Calicut on 4 and 5 march 2010.
5. Dr. Sebastian George was the chief resource person for the seminar on ‘New trends in Applied Statistical Methodology’ held at Nirmala College, Muvattupuzha during 2-27 February 2010.
6. Dr. K.K. Jose was the chief resource person for the Workshop on Mathematical Applications’ held at St. Joseph’s college of Engineering and Technology, Palai on 4 October 2009.

DEPARTMENT OF MATHEMAICS

Dr. Sunil C. Mathew was a resource person at the following Seminars:

- i. Seminar on ‘Coding Theory’ held at Nirmala College, Muvattupuzha on 29 January 2010.
- ii. Seminar on ‘Coding Theory’ held at M.E.S. College, Nedumkandam o 19 February 2010.

Appendix 3

ACADEMIC AND RESEARCH ACTIVITIES BY THE FACULTY

New DST Major Research Projects Sanctioned

The Department of Science and Technology (DST), Government of India Sanctioned the following Major Research Projects to the teachers of the college under various schemes, during 2009-'10.

| Sl. No. | Name of the Principal Investigator | Project Title | Approved grant & period |
|---------|---|--|-------------------------------|
| 1. | Dr. Vincent Mathew (Dept. of Physics) | Analysis and Simulation of Plasmonic waveguide structures for sub wavelength applications | Rs.19,02,000/- (2009-2012) |
| 2. | Dr. Ginson P. Joseph (Dept. of Physics) | Studies on the electrical, thermal and non-linear optical properties of metal substituted and swift heavy ion irradiated organometallic crystals | Rs.20,00,000/- (2010-2013) |
| 3. | Ms. Bindu P.P (Dept. of Statistics) | Statistical Applications in micro –array technology and bioinformatics (Under Women Scientist Scheme A) | Rs.9,01,666/- (2010-2013) |

New UGC Major Research Projects Sanctioned

The University Grants Commission has sanctioned the following Major Research Projects to the teachers of the college under various schemes, during 2009-'10.

| Sl. No. | Name of the Principal Investigator | Project Title | Approved grant & period |
|---------|---|--|------------------------------|
| 1. | Dr. K.V. Thomas (Dept. of Commerce) | Micro Finance- An alternative approach to financial inclusion, women empowerment and sustainable income generation: A case study of Kudumbasree initiative in Kerala | Rs.4,92,200/- (2009-2012) |
| 2. | Dr. Vincent Mathew (Dept. of Physics) | Study of electromagnetic fields and propagation in ferroelectric and multiferroic waveguide structures | Rs.7,50,800/- (2009-2012) |
| 3. | Dr. Dennis Thomas (Dept. of Botany) | In vitro conservation and reproductive biology of pittosporum tetraspermum, an endangered medicinal plant from Western Ghats | Rs.3,83,000/- (2010-2013) |

New UGC Minor Research Projects Sanctioned

The University Grants Commission has sanctioned the following Minor Research Projects to the teachers of the college under XI Plan during 2009-'10.

| Sl. No. | Name of the Principal Investigator | Project Title | Approved grant |
|---------|--|---|----------------|
| 1. | Dr. sunny Kuriakose (Dept. of Chemistry) | New generation antimicrobial coatings based on silver nanoparticle dispersed hyperbranched polyglycerol containing multichromophoric groups | Rs.85,000/- |
| 2. | Dr. Jose K. Xavier (Dept. of Chemistry) | Investigations on the fate and control of water pollution due to synthetic detergents | Rs.75,000/- |
| 3. | Dr. Ginson P. Joseph (Dept. of Physics) | Studies of the physic-chemical properties of organometallic NLO crystals for photonics device fabrication | Rs.1,15,000/- |
| 4. | Prof. Raju. Mathew T. (Dept. of Physics) | Preparation and electrical characterization of ZnO nanostructure thin films by two step chemical bath deposition technique | Rs.35,000/- |
| 5. | Dr. Michael Augustine (Dept. of Physics) | Simulation of wave propagation in magnetically tunable nonlinear waveguide structures containing ferrite films | Rs.45,000/- |
| 6. | Dr. K.M. Kurian (Dept. of Statistics) | A sensitivity study of confidence interval estimation of process capability indices in the variance component model | Rs.1,20,000/- |
| 7. | Dr. Sunny Joseph (Dept. of Commerce) | Socio-Economic impact of NRI remittances: A case study of Malappuram district of Kerala | Rs.65,000/- |
| 8. | Dr.V.V. Georgekutty vattoth (Dept. of Hindi) | Dalit empowerment depicted in Hindi fiction | Rs.75,000/- |
| 9. | Prof. Sojan Pullatt (Dept. of Malayalam) | Dramas adapted to feature film in Malayalam: A historical perspective | Rs.75,000/- |
| 10. | Dr. Thomas Scaria (Dept. of Malayalam) | The impact of documentaries: Historical cultural and educational perspective | Rs.90,000/- |
| 11. | Prof. Sijo K. Manuel (Dept. of Politics) | Human rights and the role of NGOs: A study on Amnesty International | Rs.50,000/- |
| 12. | Rev. Fr. N.V. Joseph (Dept. of Syriac) | The Syriac inscriptions: A store house of semitic culture in Kerala | Rs.65,000/- |

Appendix 4

Completed UGC Minor Research Projects

The following Minor Research Projects to the teachers of the college under XI Plan during 2008-'09 have been successfully completed.

| Sl. No. | Name of the Principal Investigator | Project Title | Approved grant |
|---------|---|---|----------------|
| 1. | Dr. William Zacharias (Dept. of English) | Critiquing the structuralist problems on language metaphorizing pre-linguistic semosis as polyorifio exotop | Rs.50,000/- |
| 2. | Dr. Joy Jacob (Dept. of Statistics) | A statistical study of contributing factors of human development in the case of S.T. in Kottayam and Idukki Districts | Rs.1,25,000/- |
| 3. | Dr. Ison V. Vanchipurackal (Dept. of Physics) | Swift heavy ion induced intermixing of Cds/CdTe bilayers for solar photovoltaic applications | Rs.60,000/- |
| 4. | Prof. M.M. Abraham (Dept. of Commerce) | The social concern of Co-operative hospitals in Kerala with special reference to Thrissur District | Rs.60,000/- |
| 5. | Dr. Joy George (Dept. of Economics) | Poverty scenario in Kerala: An introspection | Rs.90,000/- |
| 6. | Dr. Sabu De Mathew (Dept. of Malayalam) | The cultural and religious symbols in the works of Ayyappa Panickar and Sachidanandan | Rs.76,000/- |
| 7. | Dr. B. Prakashkumar (Dept. of Biochemistry) | Screening of medicinal plants for dual inhabitation of Lidoxxygenase (Lox) and Cyclo-oxygenase(Cox) | Rs.80,000/- |

Appendix 5

Major Research Projects completed/ In Progress

1. Dr. Jomy Augustine (Department of Botany)
Title: 'Ethno-medicinal studies on tribes and local traditional health practitioners of Kottayam and Idukki Districts, Kerala'.
Sponsoring Agency: Department of Science and Technology, Government of India (Rs.9,41,000/)
Period: 2006-2009
2. Dr. Sunny Kuriakose (Department of Chemistry)
Title: 'Light harvesting and related phenomena in nanoparticle dispersed dendritic macro molecules'
Sponsoring Agency: Department of Science and Technology, Government of India (Rs.10,82,065/-)
Period: 2006-2009
3. Dr. Siby James (Department of English)
Title: ' The rasa of deconstruction and the deconstruction of rasa: Post –theory and trans –epistemic praxes'.
Sponsoring Agency: University Grants Commission (Rs.4,88,400/-)
Period: 2007-2010.
4. Dr. Sunil C. Mathew (Department of Mathematics)
Title : 'The Properties of invertible fuzzy topological spaces'
Sponsoring Agency: Department of Science and Technology, Government of India (Rs.19800/-)
Period: 2007-2010.
5. Dr. Jomy Augustine (Department of Botany)
Title: 'Phytosociological analysis and phytogeographical affinities of the moist deciduous forests of Periyar Tiger Reserve, Kerala'.
Sponsoring Agency: Kerala Forest Department (Rs.19,000/-)
Period: 2008-2009
6. Dr. Sunny Kuriakose (Department of Chemistry)
Title: 'Development of a computer programme for researchers in discrete mathematical chemistry'
Sponsoring Agency: Department of Science and Technology, Government of India (Rs.2,76,000/)
Period: 2008-2011.