

The Annual Quality Assurance Report (AQAR) of the IQAC

Submitted to

**NATIONAL ASSESSMENT AND ACCREDITATION
COUNCIL, UNIVERSITY GRANTS COMMISSION**

Submitted by



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Year of Report: 2007-2008

Part A

The plan of action chalked out by the IQAC in the beginning of the year aimed the overall development of the college. Ample thrust was given to both infrastructure and academic developments of the undergraduate and postgraduate teaching departments as well as the research departments. The main proposals in the action plan (Department wise) and the outcome achieved by the end of the year are:

STATISTICS

1. Career Guidance and Placement Cell to be strengthened
2. Syllabus updating for M.Sc. Statistics and Biostatistics during 2007-'08.
3. An International Conference along with the annual conference of the Society for Statistics and Computer Application in November 2007.
4. DST-SERC Schools in Stochastic Process Modelling, Design of Experiments and Quality Control, Exploratory Data Analysis and Statistical Computing.
5. DST sponsored programmes for undergraduate students will be initiated.
6. More seminars and invited talks to be arranged.
7. More association activities and co-curricular activities.
8. Biostatistical Surveys and Data Analysis.
9. Student Projects supported by KSCSTE and other agencies.
10. Publication of a Journal of international standards.
11. Strengthening consultancy activities.
12. Poor student's aid fund will be made operational.
13. Alumni activities will be strengthened further.
14. Research Activities will be further enhanced. More collaborative works will be under-taken.
15. Strengthening infrastructure, beautification of the Department and the campus.

During 2007-08, the Department has organized an international conference and a national conference in addition to a workshop on Statistical Ecology, Bayesian Inference and R-programming. More than 12 invited talks were organized. The faculty members are implementing two minor research projects supported by UGC. Also the faculty members are co-investigators in 4 DST supported major projects. The faculty members and research scholars have published more than 22 research papers in reputed international journals. They also attended more than 15 international/national conferences, seminars and workshops.

Our Head of the Department won a state level and a national level award for the best college teacher. Our research scholar, Lishamol Tomy, won an international award for young researchers, awarded by the 'International Statistical Institute'. For M.Sc. Statistics our student Manu Mariam Thomas won University First Rank. For M.Sc. Biostatistics, the first three ranks at the University level were won by our students Royes Joseph, Smitha Mathew and Sreelekha K.R. and the rest secured 100% pass with 5 distinctions and first classes. All students of M.Sc. Biostatistics (100%) and 60% of M.Sc. Statistics students got placement in reputed institutions all over India. DST released Rs.3/-lakhs as third installment

of FIST support. Also all students participated in the 25th ISMS conference at Manipal. 22 research papers were published by our faculty and research scholars.

MATHEMATICS

1. To apply for the award of FIST grant to the department and to initiate a major infrastructure development process.
2. To encourage and help the teachers to apply for major research projects to various agencies like DST, UGC, CSIR, DBT etc. to bring sizable funds to the department.
3. To encourage and help the teachers and students to achieve 100 percent computer literacy
4. To continue the free tuition programme for the poor students of Mutholy Colony.
5. To continue the Mathematics awareness Programme for the Plus Two students.
6. We plan to start an M.Phil. Course in Mathematics under UGC innovative programme.

We could achieve most of the goals of the main proposals given above.

PHYSICS

1. New research proposals to be submitted.
2. New manuscripts being prepared and submitted.
3. PG and UG practicals and seminars etc are being rejuvenated by incorporating latest trends in science practice, like use of UNIX like operating system for computing, documenting and communicating.
4. Teachers taking responsibilities for the important academic duties and organizational work of the college.

We could achieve the goals of the main proposals given above.

CHEMISTRY

1. To improve the infrastructure facilities of the department.
2. To apply for more major and minor research projects.
3. To strengthen the consultancy services.
4. To organize more national and international conferences, seminars and workshops.
5. To publish more papers in international journals.

We applied for FIST support. The amount claimed is Rs.78.8 lakhs, for the overall development of the infrastructure facilities of the department. We got 79 percent pass in undergraduate level and about 90 percent in postgraduate examinations with the University II rank (Ms.Libia K.G.). One Ph.D was awarded during the academic year (Ms.Mary Joseph, Lecturer in Chemistry, St. George College, Aruvithura, under the guidance of Dr.Sunny Kuriakose). A major research project worth 69 lakhs was submitted to DST by Dr.Sunny Kuriakose in collaboration with the Centre for Mathematical Sciences (DST), Pala Campus.

BIOTECHNOLOGY

The thrust area for developmental activities of the department as chalked out for the year 2007-2008 could be implemented to a considerable extent.

1. It was possible to improve on the quality of the project works being conducted as part of the Postgraduate programme. For this departmental project monitoring committee consisting of the Course coordinator and two teaching faculty one each from Biotechnology and Microbiology was constituted. The students had to do two work presentation seminars related to their area of study. Yearly assessment of teacher performance was also linked to active involvement of teachers in the research work of the students. One paper was published and one has been communicated. One faculty member has registered for the Ph.D programme in Mahatma Gandhi University. It was indeed a proud moment when one of our students Miss Rince John cleared the DBT JRF examination in second position. Miss Preena , Miss Soumya Krishna and Miss Manjusha of The Applied Microbiology Course were awarded the first, second and third ranks for the Post graduate course in M.Sc Applied Microbiology of Mahatma Gandhi University
2. The animal cell culture laboratory established in the previous year has become fully functional.
3. The proposed Plant Molecular Biology laboratory has been established and provides the students to have a hands on training in Molecular Biology techniques
4. Even though it has not been possible to set up an independent Bioinformatics center, it has been possible to set up a laboratory in Collaboration with Department of Statistics and Biostatistics where the students of Biotechnology and Applied Microbiology are able to use and get trained in Bioinformatics.

BOTANY

1. We had planned to elevate the departmental facilities to a level of national research centre with the aid of Department of Science and Technology, Government of India, New Delhi under the Scheme **FIST**. We have prepared a detailed proposal for the augmentation of departmental research facilities and the same is sent to DST, New Delhi. The proposal contained a financial requirement of Rs. 2.79 Crores. The proposal, though overall of the department is centralised to a focal item of the Bio prospecting of Indigenous Plant Wealth. This proposal is approved by the DST and an amount of **Rs.40.5 lakhs** was sanctioned for the overall development of the department for next five years.
2. Another plan that we have chalked out in the beginning of the year is to establish a new laboratory for Ethnobiology and a project in Ethno medicine. A laboratory with all facilities for screening of medicinal plants is set in the department. A separate herbarium is also set along with the lab. A project having a financial assistance of **Rs. 9.41 Lakhs** funded by Division of Science and Society, DST, New Delhi is presently going on in the department
3. Third plan of the department is to modernise the department and laboratory with financial aid from Kerala State Council for Science, Technology and Environment (KSCSTE). We applied for the financial assistance for modernising the department and Lab to KSCSTE under SARD Scheme and we have gained a funding of **Rs. 13.1 lakhs**.
4. The last major plan of the academic year 2007-08 was to avail plant science research experience abroad. Two young lecturers Dr. Jos T. Puthus and Dr. Dennis Thomas T. were selected by **BOYSCAST fellowship of DST**, Govt. of India to get research experience from Hungary and Germany.

ZOOLOGY

1. Conducted a certificate course in Apiary Management for non Biology students. The course co-ordinator was Prof. Joseph Mathew K., a senior faculty member of the department.
2. Invited Lecture conducted for Zoology student on Leptospirosis and Avian flue.
3. Preparation of Question Bank for Degree students is in progress.
4. We use multimedia facilities for effective teaching.
5. Conducted remedial classes for the weak students of IDC, IIDC and IIIDC Zoology students.
6. Preparation of a calendar of Biologically important dates of observation is in progress.
Last year we observed

7. The department members of Zoology Association actively participated in programme on 'Clean Meenachil' an awareness travel through the river from Aruvithara to Mutholi.
8. Zoology Association and members of Zoology department conducted a study journey by walk from Mutholi to Lalam Thodu junction part of the Meenachil river, based to collect first hand information on the nature of pollution and sand mining in the river bed.
9. Conducted Career Guidance seminar for plus two students with collaboration of Career Guidance cell of the college and Botany department.

The following are the achievements:

1. 100% pass in the BSc main exam in the year 2007-2008
2. One day work shop on odonata of kerala conducted on 14th sept.2007.
K.G. Emiliyamma, scientist, Zoological Survey of India was the resource person. Training was given to the BSc students for the identification of dragon flies and damsel flies of Kerala.
3. A study programme was conducted in the Meenachil river basin for evaluating the ecological impact of sand mining, plastic pollution and sewage pollution during the month of December 2007. BSc zoology main students participated in the study.
4. A survey on the fishes of Meenachil River from Lalam to Mutholy area was conducted during December 2007. The survey was conducted by the BSc zoology students with the help of local fisher men.
5. PhD thesis entitled "studies of certain antimicrobial principles from medicinal plants" was submitted to M.G. University by Sarala Gopalakrishnan in September 2007. The work was carried out in the Zoology department under the guidance of Dr. P.J.Benny.

GERMAN

1. To organize invited talks on selected topics.

We organized an invited lecture series under the DAAD Programme. It is for the first time that the GAES (DAAD) grants such a facility to a college in India. Dr. Falk Reitz from the Freie Universitaet, Berlin, Germany was the DAAD lecturer, who taught in this college for one month from 1st August to 31 August, 2007. He introduced a few modules to teach German to Degree Students of this college.

2. To encourage students to do creative writing in German. Two students wrote small articles or poems in German in the college Magazine.
3. To organize a meeting of German speaking Keralites and organise programmes for them.

On Oct. 3, we organised a programme in German for the German Returnees. The students also participated in the programme. There was also a session on Verein Deutsche Sprache, an international organisation to promote the

SYRIAC

The Department decided to conduct invited lectures by outside experts. Also special coaching for weak students will be provided to achieve 100% pass. Additional reading materials will be provided in the library. We could achieve the goals at the end of the year.

ECONOMICS

1. To organize invited talks on selected topics.

We organized an expert lecture on '**Liberalization and Self-employment Opportunities in Kerala**' on 13th September 2007 by Dr.K.R. Rajendran Nair, Reader, Department of Economics, N.S.S. College, Panthalam. The aim of the programme was to create awareness in our students about the self- employment opportunities in Kerala in the liberalized scenario.

2. To encourage and facilitate the teachers to apply for research projects and to bring sizable funds to the department.

Three teachers of the department applied for minor research projects to U.G.C. They are (1) Dr. K.K. John (2) Sri. Joseph J.Mattom and (3) Sri. K.C. Biju. The U.G.C. has sanctioned two minor projects of Rs. 25000/ to Dr. K.K. John and Sri. Joseph J.Mattom. The title of the minor research project in respect of Dr. K.K. John is “Land Reforms and Disguised Tenancy in Meenachil Taluk”. The title of minor research project in respect of Sri. Joseph J.Mattom is “ Impact of New Generation Banks on Consumerism in Kerala”.

3. To encourage and facilitate the teachers and students to achieve 100 percent computer literacy. They are also expected to use Internet facilities, e-journals and other soft wares such as SPSS, PowerPoint, etc, which find applications in teaching and learning.
All the teachers including the guest faculty have attained 100 percent computer literacy.
4. The Department of Economics has completed 40 years of the commencement of the Post Graduate programme. As part of the **Ruby Jubilee celebrations**, a *one day State Seminar* on “**Kerala Economy and Eleventh Five Year Plan**” was organized on 27th February 2008. The Seminar was inaugurated by Dr. Prabhat Patnaik, Hon’ble Vice Chairman, Kerala State Planning Board, at a function presided over by Rev. Msgr. Eanas Ottathengumkal, manager of the college. Dr. Alvin Parkas, Head of the Department of Economics, University of Kerala delivered the keynote address. Sri. V.T. Mathew, Manager, Staff Training College of State Bank of Travancore, made presentation on the ‘Role of State Bank of Travancore in the economic development of the state of Kerala’. Dr. Murali Vallabhan, Reader, and Department of Economics, S.V.R.N.S.S. college Vashoor took a class on ‘Sustainable Development in Kerala: Opportunities and Challenges Ahead’. Prof. E.S. Joseph, Former Head of the Department of Economics cut the Jubilee cake and offered felicitation. The retired teachers and the first batch of the P.G. students were honored in the meeting. One hundred and eighty five delegates participated in the seminar.
An Economics Alumni Association was also formed as part of the Ruby Jubilee Celebration.

POLITICS

1. It is proposed to form a 'Quality Study Circle' consisting of faculty members and Research Scholars of the Department. The main objective of the Study Circle is to form an 'Open discussion forum,' through which socially relevant issues can be discussed. Every month members will present a paper each from their own respective areas. This will be documented and continuously published in website. In this open discussion forum the public can also share their opinion.
2. It is decided to depute as many faculty members as possible to participate in the orientation, faculty improvement programmes, seminars, workshops etc.
3. UGC has sanctioned Rs.30000/- for one day national seminar on Tribal Rights, for young teachers. It will be held in the month of August.
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 on the decentralization process in the local administration and governance especially in e- governance.
5. Degree students, as part of their syllabus, will be given an opportunity to watch the functioning of the State Legislative Assembly.
6. Prof. M.T. Thariyan endowment lecture will be conducted every year.
7. Rao Bahadur Dr.R.M. Mathew endowment lecture will be arranged this year also.
8. Prof. N. C. Mathewkutty Endowment Lecture will be held this year also.

In order to accomplish the goals and objectives of the institution, the Research and P.G. department of Political Science conducted the following programmes with the aim of enhancing the quality among the faculty and the students.

1. The National Seminar on *Emerging Europe: Challenges and Opportunities for Asia* organized by Research and Post Graduate Department of Political Science, and Research Forum St. Thomas college Pala, was formally inaugurated by His Excellency Dr. Hynek Kmonicek, Ambassador of Czech Republic in India, on 14th February 2008. Esteemed Manager of the College Very Rev. Msgr. Eanas Ottathengumkal presided over the National Seminar. In his inaugural address Czech Ambassador spoke at length about the miraculous progress achieved by the Czech Republic during the last 13 years because of the inflows of foreign investment. He also stated that the Czech Republic could be taken as a role model for India. Dr. Hynek Kmonicek was on a private visit to the College. Earlier, welcoming the Guest of Honour, the Principal of the College Dr. Mathew John Kokkatt spoke about the relationship between India and member states of the European Union.
2. In the second session of the National Seminar, Dr. K.M. Seethi, Reader, School of International Relations lectured his key note address on the topic *Emerging Europe: Challenges and Opportunities for India*. He also stated that the Challenges and Opportunities for India largely depend on India's Industrial Development, technological know-how and skilled labour. In the third session of the National Seminar Dr. B. Udayanan Reader, N.S.S Hindu College Changanacherry delivered his lecture on the topic *SAARC: New Challenges and Prospects*. He insisted that South Asian Association for Regional Cooperation devoted itself more seriously to the socio economic development and cultural exchange programmes among the South Asian Countries. Prof. Mathew Sebastian, HOD Of Politics, the General Convenor of the National seminar expressed vote of thanks to the distinguished guests, teachers and students.
3. Shri. Sibi George IFS an alumni of our department addressed the students on July 7th 2007. The topic for discussion was India's Foreign Policy: Challenges And Prospects.
4. Dr. M. M Mathew, Head of the Department, Department of Politics, Marthoma College, Thiruvalla inaugurated the activities of the Political Science Association for the year 2007-2008.
5. FORUM FOR GREAT THOUGHTS organised by Research & P.G Department of Political Science was inaugurated on 28.09.2007 by Dr.M.S. John Professor, School of Gandhian Thought & Development Studies on the topic: Antony Giddens – The Third Way By.

Rank:

M A : George Varghese Chacko – 3rd Rank

B A : Jerome K John - 2nd Rank

COMMERCE

1. To organize at least three invited lectures by eminent speakers from the industry as well as by renowned academicians utilizing the endowment funds instituted in the department
2. To strengthen the Career Guidance and placement activities in the department.
The Department has strengthened its career guidance and placement cell with the Directorship of Dr. K.V. Thomas who is a qualified career counselor. The cell organized a number of programmes for the students to improve their communication skills through group dynamics and practicals. Mock interviews and G.D. training sessions were lead by Shri. George Karanackal, a renowned HR consultant.
3. To conduct one national seminar
The Department in association with JRG Securities Ltd. Organised a one day seminar on “Indian Capital Market”. A one day seminar on commodity derivatives was conducted for the students of the Commerce Department.
4. To prepare a question bank with the participation of the faculty and the students
During the year the Faculty and the students of the department have jointly prepared a question bank for the various subjects.
5. To organize an all Kerala inter-collegiate meet of the commerce students.
“Com Arena 07” an inter collegiate meet of Commerce students was organised on 22nd November 2007.

ENGLISH

1. The Dept. proposed to update the language laboratory incorporating state-of-the-art audio video technique.
We have, with the help of the college, established a full fledged language lab with a seating capacity of 30. It has all the modern amenities required for a language lab.
2. We planned to have multimedia facilities for use in the class rooms.
With the help of LCD projectors, laptop computers, DVD players and TVs, our students are given a really up-to-date mode of learning experience. Teaching efficacy has been considerably enhanced through these.
3. Encouraging the use of internet.
Students are encouraged to hunt for material required for seminars and dissertations through the internet. They are given training to access Websites and e-journals
4. We planned to provide consultancy service to students, teachers and public.
Though not yet formally inaugurated, the Dept has been offering linguistic and literary consultancy for many years. It has been augmented now.
5. Students' welfare schemes were mooted.
Students being the beneficiaries of whatever the dept. does, their interests have to be guarded. "Awakening" programmes for UG and PG were conducted. Their grievances are immediately redressed, and their academic and overall progress is well monitored.

MALAYALAM

1. To organize a Seminar on feminism, Workshop on Translation and Workshop on Cinema
2. To publish the monthly Navasahithi
3. To publish a Newspaper, Malayalasabdham
4. To publish a literary magazine, Carnival

Kathakali Programme was staged on 12th Dec. 2007. We could achieve all other goals as shown above. This year, 4 students have got Ph.D and 1 student has submitted the thesis. 2 students have qualified UGC NET.

HINDI

1. To encourage teachers to apply for minor and major research projects and bring funds to the Department.

A minor research project under the supervision of Dr. C.K. James is in progress.
2. To encourage the teachers and students to use Computer, Internet and Multimedia facilities.
The Department tried to impart expertise in using computers and internet to students and Teachers.

Part B

1. Activities Reflecting the Goals and Objectives of the Institution:

STATISTICS

1. The Department aims at imparting quality education of international standards with proper training, research and development, consultancy and applications of statistics.

With a view to impart quality education in Statistics and related areas of international standards, the following programmes were organized.

Professor K. Ramakrishna Pillai Trophy Quiz competition was held on 20.01.2008. The All Kerala Statistics Quiz competition for the Prof. K. Ramakrishna Pillai memorial trophy was conducted on 20th January 2008. 8 teams participated in the quiz for degree students from all over Kerala. The team consisting of Preethi John and Deepthi S. from Nirmala College, Muvattupuzha, won the first prize. The Principal Rev. Dr. Mathew John Kokkattu and the chief guest Dr. A.M. Mathai, distributed cash prizes, trophies and merit certificates.

Invited talks / Short term courses

- (i) Dr. Aleyamma Mathew, Professor of Biostatistics and Epidemiology gave a series of Lectures (50 hours) in Epidemiology to M.Sc. Biostatistics students during 2007-08.
- (ii) Dr. Madhav Kulkarni, Professor, Department of Statistics, Pune University, conducted a short course (30 hrs) on Statistical Ecology during August 2007.
- (iii) Dr. V.R. Pavgi, Professor of Statistics, Pune University, conducted a course (20 hrs) on R Programming to M.Sc. Biostatistics students during 10-17 August 2007.
- (iv) Dr. S. Kunte, Professor, Department of Statistics, Pune University, conducted a short course (25 hrs) on Bayesian Inference during 10-24 August 2007.
- (v) Sri. J. Sreekumar, Senior Scientist (Statistician), CTCRI, Trivandrum, gave a series of invited talks (30 hrs) on Statistical Genetics during 2007-08.
- (vi) Dr. A.M. Mathai, Emeritus Professor of Mathematics and Statistics, McGill University, Canada gave a series of lectures (50 hours) on Biostatistics and biological modeling to M.Sc. Statistics and Biostatistics students during 2007-08.
- (vii) Dr. Thomas Mathew, University of Maryland USA. gave an invited talk on “Mutivariate Confidence Regions in Bioequivalence Studies” on 12th January 2008.
- (viii) Dr. R.N. Rattihalli, Professor and Head, Department of Statistics, Shivaji University, Kolhapur, Maharashtra gave two invited talks on (a) Decision Theory in Statistical Inference and (b) Design of Clinical Trial Experiments on 10 December 2007.
- (ix) Dr. R.B. Bapat, Head, Indian Statistical Institute, Delhi Campus gave an invited talk on Generalized Inverses and Positivity of Matrices on 29 October 2007.

- (x) Dr. B.K. Sinha, Director, Indian Statistical Institute, Kolcutta and member of National Statistical Commission visited the Department and interacted with staff and students in September 2007.
- (xi) Dr. Peter Mouchopolis (Canada) visited the Department and gave an invited on Statistical Distributions and their Applications during January 2008.

DST – SERC School on Mathematical Sciences in April-May 2008

The 2008 SERC School on Mathematical Sciences sponsored by Department of Science and Technology, Govt. of India organized by the Centre for Mathematical Sciences Pala campus in collaboration with the Department of Statistics was held in the college from 23rd April to 25th May 2008. This year the theme was ‘Matrix Variable Calculus and Statistical Distributions with applications in Astrophysics’. DST selected the 30 participants on all India basis from among research scholars and young teachers below 30, working in colleges and Universities all over India in the areas of Mathematics, Statistics and Mathematical Physics. The main Resource persons included Dr. H.J. Haubold (UN), Dr. A. Kilbas (Bellarus), Dr. S. Provost (Canada), Dr. A.M. Mathai (Canada), Dr. K.K. Jose (Pala), Dr. Seemon Thomas, Dr. Sebastian George. The Director was Dr. A.M. Mathai and Co-Director was Dr. K.K. Jose.

The 8th Annual Conference of the Society for Special Functions and Their Applications and International Conference on Special Functions and Their Applications, was hosted by the Department of Statistics during 18-20 May 2007

The conference was inaugurated by Dr. H.J. Houbold, U.N. Vienna. Dr. A. Sukumaran Nair, Former Vice Chancellor, M.G. University, Kottayam presided. Dr. A.K. Aggarwal, Punjab University, Chandigarh released the Souvenir. Dr. M.A. Pathan (AMU, Aligarh, General Secretary, SSFA presented a report of the activities of SSFA. Dr. A.M. Mathai, Emeritus Professor, McGill University, Canada delivered the Keynote address. About 30 invited talks and 60 contributed papers were presented by delegates from all over the world. Dr. B.D. Acharya, Advisor, Dept. of Science and Technology, Govt. of India delivered the valedictory address. About 150 delegates participated.

The 10th Annual Conference of the Society of Statistics, Computer and Applications and the National Conference on Statistics and Computer Applications was hosted by the Department of Statistics during 16-18 November 2007.

The Conference was inaugurated by Dr. Rajpal Singh (Madhya Pradesh) in a meeting presided by Dr. M.N. Das (New Delhi). Dr. A.M. Mathai delivered the keynote address. Dr. V.K. Gupta, National Professor, IASRI delivered the special invited talk. There were 20 invited talks and 60 contributed paper presentations. The themes of the conference included Statistical Design of Experiments, Statistical Applications in Agriculture and Plant Breeding, Time Series Modelling,

Gene Sequence Microarray Modelling, Official Statistics, Data mining and Warehousing, Reliability Modelling, Time Series Modelling etc. There was a workshop on Bioinformatics Modelling and Computing using Statistical Techniques. About 120 delegates participated in the conference. The valedictory was held on 18th November 2007.

Campus Interview: A Campus interview was held by Tata Consultancy Services, Mumbai during August 2007, Krithyam Computers, Kochi during August 2007 and Digiport Holdings, Singapore during December 2007 and a number of students were recruited for appointment. In addition to these our students got placements in Aravind Hospital, Madurai; Biocon, Bangalore; Amala Cancer centre and Medical College, Thrissur; MES Medical College, Perinthalmanna, Regional Cancer Centre, Trivandrum; Amritha Institute of Medical Sciences, Kochi, Federal Bank, Aluva, Indian Statistical Service. The following got placements during this year.(i) Antony Augustian (ii) Minnu Mathew (iii)Preethi Sara George (iv)Cyriac George (v) Beteena Kurian (vi) Sangeetha Sebastian (vii) Christeena Abraham (viii) Udaya A.(ix) Jose Kurian (x) Royes Joseph (xi)Gijo Thomas (xii)Bijin Bhai (xiii)Tilu (xiv) Jinu S.Nair (xv) Jini P. (xvi) Shiju Paul (xvii)Manu Mariam (xviii)Neethu Jhoney (xix)Melbin John (xx)Smitha Mathew (xxi)Tintu Thomas (xxii)Mayamol (xxiii)Anumol (xxiv)Seema S.Nair (xxv)Dhanya P.Joseph (xxvi) Nicy Sebastian (xxvii)Swetha Zacharia (xxviii) Jilson (xxix) Aiswarya Prasad

Other activities

- i. The Statistical Association was inaugurated by Dr. M.N. Das, former Director, IASRI New Delhi on 15-11-07. Dr. Ashish Das (IIT, Mumbai) and Dr. P. Chandrasekhar, Loyola College, Chennai gave talks.
- ii. Dr. Joy Jacob and Sri. Seemon Thomas conducted Computer Training Program in LaTeX and SAS Programming to participants of the DST-SERC Program during April-May 2008.
- iii. Dr. Joy Jacob and Sri. Seemon Thomas conducted Computer Training Program in LaTeX and SAS Programming to SC/ST students and PG students in Mathematics, Statistics and Economics as part of Remedial Program sponsored by UGC in 2007-08.

Merit Evening: Mr. Cyriac George., who was selected to the Indian Statistical Service; Ms. Manu Mariam Thomas who secured M.Sc. Statistics first rank at M.G. University level, were given a warm reception on 20-01-2008.

MATHEMATICS

Offered free Tution to poor school students of Mutholy colony by students of Mathematics Department

PHYSICS

1. New research proposals were submitted.
2. New manuscripts are being prepared and submitted.
3. PG and UG practicals and seminars etc are being rejuvenated by incorporating latest trends in science practice, like use of UNIX like operating system for computing, documenting and communicating.
4. Teachers take responsibilities for the important academic duties and organizational work of the college.

CHEMISTRY

One of the major initiatives was the submission of a proposal worth Rs. 78.8 lakhs to the Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India, under the FIST scheme for the infrastructure development of the Department. A major research project (worth Rs. 8.69 lakhs) was sanctioned to Dr. Sunny Kuriakose and the project started functioning in December 2006. This project is funded by DST, Govt. of India. Another major research project (Rs. 6.13 lakhs) funded by UGC is in progress (PI : Dr. Sunny Kuriakose) and two minor research projects sponsored by UGC (PI: Dr. G.D. Gem Mathew and Sri. Jogy Alex) were completed during 2006-2007. Dr.Sunny Kuriakose has submitted a major research project to DST in collaboration with the Centre for Mathematical Studies (DST), Pala Campus to develop molecular models and computer softwares for researchers in Chemistry and Mathematics. A Lecture workshop was conducted on Current Topics in Chemistry was held on 10 & 11 April 2008, sponsored by IASc, Bangalore, INSA New Delhi and NASI, Allahabad and Co-sponsored by CSIR, New Delhi and KSCSTE, Govt. of Kerala.

BIOTECHNOLOGY

The overall performance of the Department has been excellent. With the coordinated effort of all the staff, the Department could secure 100% pass in Biotechnology in the University examinations, one student has cleared the UGC CSIR-NET examination and one has cleared the DBT JRF examination and 2 students have cleared the MG University entrance examination for registration of Ph.D programme. 4 students of students who have passed out in 2007 have been placed in research sectors including one in NCL Pune.

BOTANY

The department always shows adequate sensitivity to the changing educational and social demands. For making this aim successful the following methods are adopted by the department

Staff meetings : The department conducts staff meeting to discuss various matters, usually current issues in Plant Science. All the teachers and non-teachers participate in the meetings. At certain occasions the Principal of the college also participated in the meetings. Analysis of the result of the students is done to study their progress. Special staff meetings are held for any urgent issues. Usual staff meetings are at the beginning and end of each semester for the assessment of syllabi coverage etc.

This year there are several meetings conducted for the modernisation of the department and to elevate the department to a national level as our department is recognised by the Department of Science and Technology by funding **Rs. 40.5 lakhs** under the FIST Scheme.

Interaction with the students: The Head of the department and especially the Tutor of each class interact with the students regularly. During this time the students are free to produce their opinions and suggestions or even complaints to their teachers. The problems or suggestions of noteworthy coming out of the interactions will be discussed in the next departmental staff meeting.

Interaction with the parents: It is the next step of interaction. Here the tutor only or at some occasions the HOD and the parent will discusses the progress of problems in learning or extracurricular activities of the students.

Weekly hour for interaction: Though the teachers are available for the students throughout the working hours, there is one special hour in every week assigned for every teacher of the department. The teachers are strictly available in the department for interaction with the students. The time schedule of each teacher is published in the notice board. The teachers of the Department of Botany are available in the Staff Room for students' interaction

ZOOLOGY

To impart the idea of sustainable development and organic farming training in vermicomposting was given to the students of BSc zoology. For this purpose the department is maintaining a vermicomposting unit in the campus.

A detailed survey was conducted on the fauna of the campus from July to December 2007. This gives a motivation to students and become aware of the need for conserving the faunal diversity.

GERMAN

In accordance with the aims and objectives of St. Thomas College Pala, the Department of German organized many academic and co-curricular programmes to promote academic interest among students as well as the public. The programme on German *Landeskunde* – Life In Germany was engaged by Dr. Falk Reitz on 29 August, 2007. The programme German Association was also organised on 3 Oct. to project the academic emphasis pursued by the College.

SYRIAC

It is decided to provide teaching in Syriac keeping in view the new trends at national and international levels

ECONOMICS

In accordance with the aims and objectives of St. Thomas College Pala, the Post Graduate Department of Economics organized many academic and co-curricular programmes ensuring overall development of students in 2007-08. We have organized a state seminar on “**Kerala Economy and Eleventh Five Year Plan**” The Seminar was inaugurated by Dr. Prabhat Patnaik, Hon’ble Vice Chairman, Kerala State Planning Board at a function presided over by Rev. Msgr. Eanas Ottathengumkal, manager of the college.

Dr. Alvin Parkas, Head of the Department of Economics, University of Kerala delivered the keynote address. Sri. V.T. Mathew, Manger, Staff Training College of State Bank of Travancore, made presentation on the ‘Role of State Bank of Travancore in the economic development of the state of Kerala’. Dr. Murali Vallabhan, Reader, Department of Economics, S.V.R.N.S.S. College Vazhoor took a class on ‘Sustainable Development in Kerala: Opportunities and Challenges Ahead’. Prof. E.S. Joseph, former Head of the Department of Economics cut the Jubilee cake and offered felicitation. The retired teachers and the first batch of the P.G. students were honored in the meeting. With a view to creating an awareness in our students about the Self-employment Opportunities in Kerala in the liberalized scenario we organized an expert lecture on ‘**Liberalization and Self-employment Opportunities in Kerala**’ on 13th September 2007 by Dr.K.R. Rajendrannair, Reader, Department of Economics, N.S.S. College, Panthalam. The department also imparts value education to students through effective counseling. To create social awareness among students, discussions on relevant topics are conducted in the classes.

POLITICS

The academic department of Political Science was established in the year 1955. The department was raised as a postgraduate teaching department in 1959 and was declared a Research centre for Ph.D. in 1986. 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 2007-2008.

1. The National Seminar on *Emerging Europe: Challenges and Opportunities for Asia* organized by Research and Post Graduate Department of Political Science, and Research Forum St. Thomas college Pala, was formally inaugurated by His Excellency Dr. Hynek Kmonicek, Ambassador of

Czech Republic in India, on 14th February 2008. Esteemed Manager of the College Very Rev. Msgr. Eanas Ottathengumkal presided over the National Seminar. In his inaugural address Czech Ambassador spoke at length about the miraculous progress achieved by the Czech Republic during the last 13 years because of the inflows of foreign investment. He also stated that the Czech Republic could be taken as a role model for India. Dr. Hynek Kmonicek was on a private visit to the College. Earlier, welcoming the Guest of Honour, the Principal of the College Dr. Mathew John Kokkatt spoke about the relationship between India and member states of the European Union.

2. In the second session of the National Seminar, Dr. K.M. Seethi, Reader, School of International Relations lectured his key note address on the topic *Emerging Europe: Challenges and Opportunities for India*. He also stated that the Challenges and Opportunities for India largely depend on India's Industrial Development, technological know-how and skilled labour. In the third session of the National Seminar Dr. B. Udayanan Reader, N.S.S Hindu College Changanacherry delivered his lecture on the topic *SAARC: New Challenges and Prospects*. He insisted that South Asian Association for Regional Cooperation devoted itself more seriously to the socio economic development and cultural exchange programmes among the South Asian Countries. Prof. Mathew Sebastian, HOD of Politics, the General Convenor of the National seminar expressed vote of thanks to the distinguished guests, teachers and students.

3. Shri. Sibi George IFS an alumni of our department addressed the students on July 7th 2007. The topic for discussion was India's Foreign Policy: Challenges And Prospects.

4. Dr. M. M Mathew, Head of the Department, Department of Politics, Marthoma College, Thiruvalla inaugurated the activities of the Political Science Association for the year 2007-2008.

5. FORUM FOR GREAT THOUGHTS organised by Research & P.G Department of Political Science was inaugurated on 28.09.2007 by Dr.M.S. John Professor, School of Gandhian Thought & Development Studies on the topic: Antony Gidns – The Third Way By.

COMMERCE

The various activities of the department during the year were aimed at providing high quality education in Commerce and Management.

PHYSICAL EDUCATION

Physical Education department has initiated and organized many activities during the year. UGC has sanctioned an amount of rupees 51,300 for the conduct of PARA GLIDING PROGRAMME under the Adventure Activities during the X plan period to be conducted for the college students. Last year the department in association with the Kerala Sports Council, Sports Authority of India and concerned federations, had conducted coaching camp in Athletics, Volleyball, Wrestling, Judo, Kabaddi, Table Tennis, Cross Country, Swimming, Weightlifting, Powerlifting, Waterpolo, Chess and Yoga for the college students. We also conducted the Swimming classes for the beginners in which around seventy-five students learned the basics of the life saving skill. Apart from that swimming classes were also conducted for the School children and children of the College Staff during the Onam Vacation. The department also took initiative in conducting the M.G.University Inter Collegiate Swimming and Water Polo, Kanjirapally and Pala Educational district School Swimming and Wrestling Championship. The Coaching Camp for the M.G.University Volleyball and Swimming teams were also organized by the department. Apart from that the annual sporting carnival, Bishop Vayalil All Kerala Inter collegiate Volleyball (men & women) tournaments were conducted with much fanfare

ENGLISH

Association conducted competitions like Quiz, debates, elocution, poetry/short story writing etc., Onam/ Christmas celebrations, Visits to peer institutions, Screening of lassic movies, UGC/NET coaching for PG students, Extension lectures/ invited talks, Model vivas, Orientation programmes for PG and UG and Award meets

MALAYALAM

To achieve the goal of creating a centre of excellence through the formation of young people empowered to create a bright future for themselves the Research and Postgraduate Department of Malayalam has initiated and organized various academic programmes and co-curricular activities during the year. A major research project (worth Rs. 4.65 lakhs) was sanctioned to Dr. P.J. Sebastian and the project is functioning smoothly.

HINDI

The Department has initiated and organized various academic programmes and co-curricular activities during the year.

2. New academic programmes initiated (UG and PG):

STATISTICS

Add on programs and Workshops in SAS programming, Statistical Data Analysis, R-programming and Statistical Ecology were organised

PHYSICS

New academic programmes initiated: A certificate course in *computer-aided design in electronics* has been formulated and is submitted to UGC for financial help.

POLITICS

- (a) The department has submitted a proposal to the UGC for conducting Postgraduate Diploma Course in ‘Human Rights Education and Duties’.
- (b) The Department conducts regular NET/SET coaching classes for the Postgraduate students.
- (c) Talented and intelligent students are spotted out and opportunities are given to nurture their talents.

COMMERCE

The curriculum for the two year Diploma course “Computerised Financial Accounting” was thoroughly revised during the year.

ENGLISH

We have started an English Speaking Corner to improve fluency among students, and as part of AELT they do various projects on how to learn and teach English.

HINDI

UGC Sponsored Add-on course in Hindi Translation and DTP is going on in the Department.

3. Innovations in curricular design and transaction:

MATHEMATICS

Two of our faculty members, (Sri. J. Chandramohan and Dr. Sunil C. Mathew) have attended the Syllabus Restructuring Workshop conducted by M. G. University.

STATISTICS

The syllabus approved by U.G.C. and M.G. University Board of Studies for M.Sc. Biostatistics was designed by the faculty in the Department after interacting with many international experts like Dr. A.M. Mathai, Dr. Thomas Mathew, Dr. C. Suchindran, Dr. Aleyamma Mathew, Dr. K.V. Palanichamy, Dr. A.P. Gore etc. Also Dr. K.K. Jose and Sri. K.M. Kurian are chairmen of PG and UG Board of Studies at M.G. University.

PHYSICS

Innovation in curricular design and transaction: A specialization on *microelectronics* has been formulated and has been approved by the PG Board of studies.

CHEMISTRY

Syllabi and curricula for a new postgraduate programme named, M.Sc. Nanochemistry and Nanotechnology were designed exclusively by the faculty members of our department. The syllabi and curricula of this P.G. programme were approved by the Commission constituted by the Mahatma Gandhi University. Prof. A.C. Joseph was the Chairman of the UG board of studies. Prof. T.M. Jose and Prof. George Francis are currently serving as the Chairmen of the P.G. examination boards.

BIOTECHNOLOGY

A model proposal for modification of existing curricular design has been submitted to the Mahatma Gandhi University for pursuit

ZOOLOGY

Apart from classroom learning, students were provided exposure to the subject by imparting the following facility.

- a) Local study tour programme to well known Poultry farm, agriculture farms, and Meenachil river
- b) Students are encouraged to bring and exhibit photographs and excerpts of biological relevance in the Department Notice board.
Quiz programme is conducted on a regular basis for Degree students. The toppers are sent to participate the State Level Quiz conducted by Zoological Society of Kerala.

POLITICS

- a. The Department conducts regular NET/SET coaching classes for the Postgraduate students.
- b. Talented and intelligent students are spotted out and opportunities are given to nurture their talents.

GERMAN

The internal assessment is effectively used to enable the students to improve their knowledge of German, particularly through assignments and seminars to be presented by students.

ENGLISH

Our teachers are members of the UG and PG boards of the University. Last year's change in curriculum at the UG level had the participation of Prof. K.A. Alexander. Dr. Thomas Augustine, HOD, supervises the design of curriculum at the PG level.

HINDI

Two Teachers from the Department are members of the P.G. Board of studies and Chairman UG Board of studies respectively.

4. Inter-disciplinary programmes started:

STATISTICS

The Diploma programs in Statistical Ecology as well as Bioinformatics and Computational Biology are interdisciplinary in nature. Also the M.Sc. Biostatistics course offered by the Department is an interdisciplinary course supported by UGC under the innovative programme in emerging interdisciplinary areas.

PHYSICS

The department proposes to cooperate in the interdisciplinary programme of Nanoscience being envisaged by the Chemistry Department in teaching a few courses.

CHEMISTRY

The Department has given support to start interdisciplinary collaborations in the areas of teaching and research. The phytochemistry research going on in this department has benefited a lot by collaborative interaction with the Research Department of Botany and the Department of Zoology of this college. We have also research collaborations with the Department of Oceanography and Marine Sciences, Cochin University of Science and Technology for research related to environmental problems. The proposed M.Sc Nanochemistry and Technology is an interdisciplinary programmes.

BIOTECHNOLOGY

A Certificate programme in Bioinformatics is already available to the students of Applied Microbiology and Biotechnology.

ZOOLOGY

Conducted certificate course in Apiculture for Non biology students.

GERMAN

The DAAD Lecture programme was of interdisciplinary nature, blending German Language, Culture, History, Archeology etc.

COMMERCE

The department conducts a two- year Diploma course “Computerised Financial Accounting” which is offered as an Add-on course to the students. The course imparts theoretical as well as practical training to students in various computerised accounting packages. It also helps to improve the students’ communication skills.

ENGLISH

We always take care to implement programmes in collaboration with the other language departments. Dr. C.T. Francis of Sanskrit gave expert lectures on Indian Aesthetics.

MALAYALAM

The Department has given support to start inter disciplinary collaborations in the areas of teaching and research. The department conducted a seminar on translational theories in association with the research and Post Graduate department of Hindi and English.

5. Examination reforms implemented:

MATHEMATICS

No major examination reforms have been implemented. However, seminars, assignments, etc, have been strengthened among the students

STATISTICS

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

PHYSICS

No major examination reforms have been implemented, however, seminars, assignments, production and use of video films, etc, have been strengthened and the same is publicized among the students. The students were encouraged to participate in the on-line evaluations also.

CHEMISTRY

No major examination reforms have been implemented. However, seminars, assignments, production and use of video films, etc, have been strengthened and the same is publicized among the students. The students were encouraged to participate in the on-line evaluations also.

BIOTECHNOLOGY

The University conducts examinations and the department has no flexibility in this regards. However, the Departmental internal assessment programme has been modified to include objective type test papers in line with the UGC CSIR entrance examination and DBT, ICMR competitive examination. Work Presentation seminars are compulsory for final year students who do their project work

ZOOLOGY

Weekly, test papers are conducted. The answer scripts are valued by the students under strict supervision and guidance of the teacher. This enabled the students to fine-tune their capacity to face examinations.

GERMAN

No major examination reforms have been implemented during the year. However, seminars, assignments and test papers were regularly conducted in the classes to test the academic progress of the students.

ECONOMICS

No major examination reforms have been implemented. However, seminars and assignments were regularly conducted in all the classes to test the academic progress and awareness of current economic issues of the students. Students were encouraged to approach the teachers to clarify any doubts regarding any topic.

POLITICS

Being an affiliated college, the mode of exam is determined by the university. Besides, considering the performance in class-tests, discussions and spot tests are taken into account for the purpose of the internal evaluation

COMMERCE

During the year no major examination reforms have been implemented. However, some of the reforms implemented during the previous years have been found to be successful and hence the Department continues to follow such practices. They include: Snap tests to ensure the regularity of the students' academic work, Open Book Examinations to encourage originality and creativity, Multiple set Question Papers

ENGLISH

Unit tests have been made a regular feature. Speaking skills have been assessed for allotting marks.

HINDI

No major examination reforms have been implemented. However Seminars, Quiz programmes, assignments, group discussions, debates, Audio visual programmes have been introduced among the students.

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

MATHEMATICS

A total of 9 students have qualified in the UGC-CSIR JRF/NET examinations from this Department.

STATISTICS

DST JRF: 5

ISS: 1

PHYSICS

A total of 5 students have qualified in the UGC-CSIR JRF/NET and GATE examinations from this Department.

CHEMISTRY

A total of 53 students have qualified in the UGC-CSIR JRF/NET examinations from this department. During 2007-2008 alone, 2 students have qualified for UGC-CSIR JRF/NET. In addition, 2 students have got high percentile score in GATE examination.

BIOTECHNOLOGY

1 student has qualified the UGC-CSIR NET Examination, 1 student has cleared the DBT JRF examination 2 have cleared the MG University examination for Ph.D registration and 1 student has had a good GATE Score.

ECONOMICS

Two students of the previous postgraduate batch (Lidya George and Mettilda George) have qualified for the NET.

POLITICS

A total of 21 students have qualified in the UGC-CSIR JRF/NET examinations from this department. During 2007-2008 alone, 2 students have qualified for UGC-CSIR JRF/NET.

COMMERCE

During the year 2 students have qualified the NET of the UGC.

ENGLISH

3 students qualified NET last year.

MALAYALAM:

A total of 26 students have qualified the UGC-NET examinations from the Department.

7. Initiative towards faculty development programme :

PHYSICS

Teachers have attended various refresher/orientation programmes. Mr. Michael Augustine has completed his Ph.D. programme through an FIP scheme during this year. Dr. Vincent Mathew has participated a conference at ICTP, Italy on 'Quantum Phenomena in confined dimensions'.

STATISTICS

Two faculty members K.M. Kurian & Seemon Thomas completed Ph.D. work and submitted Ph.D. theses to the university for adjudication. Two other research scholars, O.C. Joseph and James Kurian also completed Ph.D. work and submitted Ph.D. theses for adjudication. Our research scholar, J. Sreekumar has been awarded Ph.D. in March 2008.

CHEMISTRY

All the faculty members have attended the Lecture-Workshop organized by the Indian Academy of Sciences and various international conferences and seminars conducted by Mahatma Gandhi University, National Institute of Technology, Calicut and KSCSTE.

BIOTECHNOLOGY

The yearly performance of teachers is evaluated by the students and teachers are given the report for pursuit and improvement. Research work is promoted among teaching faculty to make them keep aware of latest development. Teachers are encouraged to register for Ph.D programme and

are also given opportunity to attend seminars. One faculty member has registered for Ph.D programme.

POLITICS

The revised syllabi and curricula for the undergraduate course were approved by the university. Dr. N.C Jacob & Dr. Shajimon K Mathews represented the department as experts for the syllabus revision.

ENGLISH

One teacher on FIP was substituted by a guest lecturer. Now a project fellow is appointed and a Major Research Project of the UGC is under way.

HINDI

All the members of the Teaching Staff were given computer and DTP Training in Hindi.

8. Total number of seminars/workshops conducted:

MATHEMATICS

Seminar – 1

STATISTICS

3 seminars/workshops and 12 invited talks.

CHEMISTRY

Seminars: 1 Workshop: 1

GERMAN

2007-2008: Seminars: 1 on German Life and Culture on 29 August, 2007.

ECONOMICS

A One- day State Seminar on “**Kerala Economy and Eleventh Five Year Plan**” was organized on 27th February 2008.

POLITICS

2007-2008: Seminars: 4

COMMERCE

Seminars: 7

ENGLISH

The Dept. has been conducting national level seminars regularly. But last year we could not conduct seminars or workshops.

MALAYALAM

Seminar : 1

HINDI

Seminar: 1

9. Research projects

MATHEMATICS

- a) Minor research project, 50,000/-, UGC
- b) Fast track project for young scientists, 1,06000/-, DST

STATISTICS

2 ongoing UGC Minor Projects by the following faculty members.

Dr. K.K. Jose, Rs.90000/-

Dr. Sebastian George, Rs.80000/-

2 Major project proposals submitted to DST and MOSPI.

PHYSICS

A. Principal Investigator: Dr. Vincent Mathew

Title: On wave propagation in superconducting multilayers and waveguide Structures.

Amount: Rs. 3,97,500-00, Agency: KSCSTE (Kerala)

B. Principal Investigator: Dr. Vincent Mathew

Title: Quantum mechanical modeling of nanoscale MOSFETs using Green's function method.

Amount: Rs. 80,000-00, Agency: UGC

C. Principal Investigator: Dr. Sunny Mathew

Title: Preparation and characteristics of plasma polymerized aniline thin films.

Amount: Rs. 80,000-00, Agency: UGC

CHEMISTRY

(a) Newly implemented:

One major research project worth Rs. 8.69 lakhs, funded by DST, Govt. of India.

(Principal Investigator: Dr. Sunny Kuriakose). One major research project worth Rs. 6.3 lakhs funded by UGC is in progress.(Principal Investigator: Dr. Sunny Kuriakose).

(b) Completed:

Two minor research projects, funded by UGC (worth Rs. 40,000 and Rs. 50,000)

(Principal Investigator: Dr. G.D Gem Mathew and Sri. Jogy Alex)

BOTANY

a) Newly implemented : Three

1. PI : Dr. Jomy Augustine

Title: Ethnomedicinal Studies on Tribes and Local Traditional Health Practitioners of Kottayam and Idukki Districts, Kerala.

Total Amount : 9,41,000

Funding Agency : DST Science and Society), Govt. of India

2. P I : Dr. Jomy Augustine

Title of the project : Vegetation analysis of the grasslands and surrounding forests in Vagamon hill: A growing tourism centre, Kerala (2007-09)

Total Amount : 65,000

Funding Agency : DST Science and Society), Govt. of India

3. Res. Coordinator : Dr. Jomy Augustine (HOD of Botany)

Funding agency : KSCSTE (Govt. of Kerala)

Total amount : Rs. 13.1 lakhs

4. P.I. : Dr. Jos T. Puthur

Title of the project: Physiological Characterization of *Musa paradisiaca* L. var. nendran soma clonal variants (SV) for drought tolerance.

Funding agency: Third World Academy of Sciences (TWAS), Strada Costiera 11 34014 Trieste, **Italy**

Total amount : USD 7700

b) Completed : **Three**

ZOOLOGY

“Studies on certain antimicrobial principles from plants”.

Principal Investigator	Dr. P.J. Benny
Funding Agency	STED. Govt. of Kerala
Amount	Rs. 78,000/-

ECONOMICS

Three teachers of the department applied for minor research projects to U.G.C. They are (1) Dr. K.K. John (2) Sri. Joseph J.Mattom and (3) Sri. K.C. Biju. The U.G.C. has sanctioned two minor projects of Rs. 25000/ each to Dr. K.K. John and Sri. Joseph J.Mattom. The title of the minor research project in respects of Dr. K.K. John is “Land Reforms and Disguised Tenancy in Meenachil Taluk”. The title of minor research project in respect of Sri. Joseph J. Mattom is “Impact of New Generation Banks on Consumerism in Kerala”

POLITICS

Newly implemented:

One minor research project, funded by UGC (worth Rs. 94,000/-)

COMMERCE

The Department has two ongoing UGC funded Minor Projects.

1. Dr. Tharsis Joseph – ‘SWOT Analysis of Women Entrepreneurs in Kerala – a case study of Kottayam District – Rs. 70,000
2. Dr. V.V. Georgekutty – ‘Entrepreneurial Awareness of students in Arts and Science Colleges in Kerala – Rs. 75,000.

ENGLISH

2 Minor Research Projects by Dr. T.J. Abraham (Rs. 40000) and Dr. Joy Jacob (Rs. 30000) and one Major Research Project by Dr. Siby James (Rs. 4, 88,400) are in progress.

HINDI

Two major research projects, funded by UGC (worth Rs. 80,000) were completed.

10. Patents generated, if any: NIL

11. New collaborative research programmes:

STATISTICS

4 DST Major Projects (Co-investigators)

1. Dr. K.K. Jose, IRHPA project at CMS
2. Dr. K.K. Jose, DST-SERC Schools (2008-‘12)
3. Dr. K.K. Jose, DST Undergraduate Training Program in Mathematical Sciences
4. Dr. Sebastian George, DST Major Project in Mathematical Chemistry

PHYSICS

- (a) Dr. Vincent Mathew with University of Pecs, Hungary through INSA exchange program.
- (b) Ison VV with IIT Delhi and NSC, Delhi.

CHEMISTRY

Dr.Sunny Kuriakose has got (as the Co-Investigator) a DST Sponsored major research project in Mathematical Chemistry in collaboration with the Centre for Mathematical Studies (DST), Pala campus. We have started a new research programme (on a consultancy basis) in collaboration with Riotech Industries, Kottayam (a growing Autopaste Industry with an annual turnover of Rs. 5 Crores) for the development of new components used for making paints and adhesives.

GERMAN

The Collaboration with DAAD, Germany is a new step towards exchange programmes

POLITICS

A collaborative programme in association with Hindu-CNN-IBN pre-poll and post-poll survey is conducted under the auspices of Centre for the Study of Developing Societies (CSDS). The department deputed ten students from the postgraduate classes and the experts from CSDS, on the topic psephology, gave them coaching on preparation of a questionnaire for the election and data collection. They were sent to different constituencies and exposed to the factors influencing the electoral system and the outcome of the election. Each student received an amount of Rs.5000/- and a certificate as a token of their valuable service.

ENGLISH

The Major Project “Deconstructing Rasa” by Dr. Siby James has Dr. C.T. Francis of Sanskrit Department as Co-Investigator.

12. Research grants received from various agencies:

MATHEMATICS

UGC : Rs. 1,65,000 (minor research projects)

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

KSCSTE: 3,79,500 (Major project)

UGC : Rs. 160,000 (2 minor research projects)

CHEMISTRY

DST : Rs. 8.69 lakhs (major research project) : PI : Dr. Sunny Kuriakose

UGC : Rs. 6.13 lakhs (major research project) : PI : Dr. Sunny Kuriakose

UGC : Rs. 90,000/- (minor research project) : Dr. G.D. Gem Mathew & Sri. Jogy Alex

BOTANY

Research Grants Received from various agencies:

1. Rs. 3,00,000 – DST, Research project of Dr. Jomy Augustine
2. Rs. 35,000 – UGC Minor Res. Project of Dr. Jomy Augustine
3. Rs. 8,80,000 – KSCSTE Research project of Dr. Jomy Augustine

POLITICS

UGC : Rs. 94,000 (minor research projects)

ECONOMICS

Minor research grant of Rs.50,000 from UGC

POLITICS

UGC : Rs. 94,000 (minor research projects)

ENGLISH

UGC's PG assistance of Rs. 2, 00,000/- was received.

MALAYALAM

UGC : Rs. 40,000/- (minor research project)
Major research project : 4.38 lakhs
P.G. Grant UGC : Rs. 38,000/-

HINDI

UGC : Rs. 40000/- (minor research project)
P.G. Grant UGC : Rs. 38,000/-

13. Details of research scholars:

MATHEMATICS

The following are the full-time/part time research scholars of the department during 2007-2008

1. Jyothy Thomas
2. Mathews M. George
3. V. K. Jose
4. J. P. Thavamony
5. Lovelymol Sebastian
6. V.D. Sebastian

STATISTICS

2. Details of research scholars:

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

* Submitted Ph.D. Thesis for adjudication

PHYSICS

1. Name: Michael Augustine
Guides: Dr. Vincent Mathew and Dr. Sunny Mathew
Topic: Wave propagation in ferrite loaded waveguides
2. Name: Gishamol Mathew
Guide: Dr. Vincent Mathew
Topic: Quantum transport
3. Name: George James
Guide: Dr. Vincent Mathew
Topic: Quantum transport
4. Name: Saji Joseph
Guide: Dr. Vincent Mathew
Topic: Quantum transport

CHEMISTRY

Student	Supervising Teacher
1. Smt. Lucy Mathew P.	Dr. Sunny Kuriakose
2. Sri. Jogy Alex	Dr. Sunny Kuriakose
3. Smt. Sherly Annie Paul	Dr. G.D. Gem Mathew
4. Smt. Aneyamma Varughese	Dr. Sunny Kuriakose
5. Sri. Thomas V. Mathew	Dr. Sunny Kuriakose
6. Sri. Shaiju Augustine	Dr. Sunny Kuriakose
7. Smt. Cincy George	Dr. Sunny Kuriakose
8. Sarala Gopalakrishnan	Dr. P.J.Benny
9. Shibumon George	Dr. P.J.Benny
10. Sri. Bejoy Mathew	-

BIOTECHNOLOGY

2 research scholars are presently undergoing their Ph.D work in the Department:
Mrs. Jenny Jose: Dual inhibition of LOX & COX: Screening, Isolation and Purification of lead compounds from plants

BOTANY

There are **Seven** research scholars working for their Ph.D. in the department. They are:

1. Sri. Biji Joseph
HSST, Higher Secondary School, Kothanelloor.
Guide : Rev. Dr. Mathew M.M.
Topic : *Ontogenic Studies of Black Pepper*
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
3. Sri Salvy Thomas, Guest lecturer, Department of Botany, S. B. College, Changanacherry
Guide : Dr. Stephan Joseph
4. Miss Smitha S. Nair, Scientist, MS Swaminathan Research Foundation, Chennai
Guide : Dr. Jomy Augustine
Topic : Systematic Revision and Conservation Biology of Myristicaceae of Kerala
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.

7. Sri. Shal Chandran, St. Thomas College, Pala

Guide : Dr. P.O. Augusthy

Topic : Utilization of latex coagulating factory effluents and its effect on the growth of selected crop plants

ZOOLOGY

Research scholar: Sarala Gopalakrishnan Guide, Dr. P.J. Benny

Topic: "Anti microbial principles from plat".

POLITICS

Name of the Scholar	Topic	Guide
1. T. J Simon	"Electoral Politics and Catholic Presence Presence in Kerala"	Dr.Cyriac Thomas
2. Roy Varghese	"Secularism and the Politics of Religious Minorities in Kerala With Special Reference to Christian Community"	Dr.Cyriac Thomas
3. S.D Sthensan Nair	"Planning Process in Kerala: The Changing Dimensions of Decentralisation A socio Political analysis"	Dr.Cyriac Thomas
4. Bindu Kurian	"Pressure Politics and Higher Education Politics in Kerala"	Dr. V.V Varghese
5. Tomy Joseph	"The Political Empowerment of the Dalits In Kerala: A Study on the Role of Dalit Movement in Kottayam District"	Dr. M. M. Mathew
6. Muhammed Rassey	"Empowerment and Development: A Study Of Women Panchayat Representatives in Kottayam District"	Dr. M. M. Mathew
7. Babu Antony	"State Response Towards Human Rights Violations Among Adivasis in Wayanad District"	Dr. M. M. Mathew
8. Joykutty T	"Politics and Development: A Study of the LDF Government"	Dr. M. M. Mathew
9. Shaji John	"Kerala's Developmental Challenges: The Case of Reshaping the Civil Service"	Dr. M. M. Mathew
10. M.M Mathai	"Grass Root Democracy in Kerala: A Case Study of Grama Sabhas in Wayanad District"	Dr. M. M. Mathew
11. Rony K Baby	"Land Politics and Tribal Questions in Kerala: A Study of Idukki District"	Dr. M. M. Mathew
12. Shiji George	"Towards Protecting the Dignity of Women: The Role of Kerala Vanitha Commission"	Dr. P. M. Thomas
13. Bijukumar VA	"Fisher Women: A Study of Kudambashree Project in Alappuzha District"	Dr. P. M. Thomas

COMMERCE

1. Thomas V.P.
2. Joseph V.J.
3. Deepu Jose Sebastian
4. Paul V.A.
5. Tomy Jose C
6. K.C. Abraham
7. Kuriachen George
8. George K.M.
9. Thomas Sebastian
10. Tomy Jose
11. Gladwin Thomas
12. Anup J.Alackappally

ENGLISH

Students are actively engaged in research leading to Ph.D. at the moment.

MALAYALAM

7 Research Scholars are doing research work in the Research Department of Malayalam. Number of guiding teachers is three.

HINDI

No. of Research Guides	- 8
No. of Research Scholars	- 14
Ph.D's awarded	- 2
Submitted	- 1

14. Citation index of faculty members and impact factor:

MATHEMATICS

Average impact factor : 0.75

STATISTICS

Citation index of faculty members and impact factor: Average : 0.8

PHYSICS

Dr. Vincent Mathew: Impact factor: 11
Dr. Simon Augustine: Impact factor: 10
Dr. Sunny Mathew: Impact factor: 10
Michael Augustine: Impact factor: 3
Ison Vanchipurackal: Impact factor: 4

CHEMISTRY

Average impact factor : 2.0

15. Honors/Awards to the faculty:

STATISTICS

1. Dr. K.K. Jose: (Best Teacher Award, AIACHE, New Delhi, St. Berchmans Award, S.B. College, Changanachery) Chairman, PG BOS, MG University; Vice-President, ISPS, Bangalore; Executive Member, SSCA , New Delhi, Elected Member, Int. Stat. Institute, Member IMS, INFORMS, IBS,ISBIS, etc. Invited speaker at ISI 2007 held at Lisbon, Invited speaker at WC 2008 at Singapore National University. Reviewer of 5

International journals namely Journal of Multivariate Analysis, Communications in Statistics, Statistical Papers, Math Reviews, Journal of Indian Statistical Association.

2. Dr. Joy Jacob: Reviewer of American Math Reviews
3. Sri. K.M. Kurian: Chairman, UG BOS in Statistics
4. Dr. Alex Thannippara: Published 5 papers in International Journals
5. Dr. Benny Kurian: Treasurer, Wise Men's club
6. Dr. Sebastian George: State Resource Person in Statistics, Best NCC Officer in Kottayam Batalion.

Sri. Seemon Thomas: Member, BOS in Bioinformatics and published 6 papers in international journals.

PHYSICS

1. Dr. Vincent Mathew has been selected for Inter-Academy exchange programme of INSA.
2. Dr. Vincent Mathew has been awarded ICTP fellowship to attend a conference at Trieste, Italy during June 2007.
3. Mr. Ananthu James, II BSc student of the physics department has been awarded the prestigious KVPY fellowship.

BOTANY

Dr. Jos T. Puthur: Awarded TWAS Research Grant under the category; award for high-level and promising scientific research projects carried out by individual scientists in developing countries.

Dr. Jos T. Puthur: Awarded BOYSCAST Fellowship of DST, Govt. of India

Dr. Dennis Thomas T.: Awarded BOYSCAST Fellowship of DST, Govt. of India

CHEMISTRY

Dr. Sunny Kuriakose was selected as an Invited Teacher by Indian National Science Academy, Bangalore, to the annual meeting of the academy.

GERMAN

Dr. Mathew John K., Lecturer in German, is national organiser of V.D.S., an international organisation to promote German Language. He is also member of P.G. Board of Studies, Kerala University, and Member of Faculty of Arts in the same University,

SYRIAC

The faculty member is acting as Bursar of the College.

COMMERCE

Dr. Tharsis Joseph is Vice President of the All Kerala Commerce Association. He is also the General Secretary of the All Kerala Research Guides Forum. Dr. V.V. Georgekutty was elected to the Senate of the Mahatma Gandhi University.

PHYSICAL EDUCATION

Mr. Ashish Joseph was appointed as the Manager of the M.G. University Men's ball Team that participated in the AIU competition held at Kurushetra University.

HINDI

One Teacher Dr. V.V. Georgekutty was awarded Sahithya Sree Award by Bharathiya Sahithya Parishad.

16. Internal resources generated:

STATISTICS

Seminars/Conferences: Rs.1.20 lakhs

Consulting Services : Rs.20,000/-

CHEMISTRY

A sum of Rs. 15.89 lakhs were generated from research grants. Rs. 45,000/- was generated from consultancy services.

BIOTECHNOLOGY

The Courses are Self financing.

ZOOLOGY

1. Nearly One tone of vermicompost worth Rs.5000/- was produced using biodegradable solid waste in the campus using the vermicompost unit. This was used for various crops in the campus.
2. A net profit of around Rs.300 obtained from the Apiary unit maintained by the department for training purpose.

GERMAN

Translation works German – English and English to German are undertaken by the Lecturer in German. This helps to generate a little resource to the institution.

POLITICS

A voluntary contribution from faculty members has been collected for the day-to-day business of the department and also provides financial assistance to the needy students.

PHYSICAL EDUCATION

A sum of Rs. 85000/- was provided by the PTA to make avail the best available facility for training and for the boarding and lodging expenses of the selected students

17. Details of departments getting SAP, COSIST(ASSIST)/DST. FIST, etc.

STATISTICS

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

BOTANY

We have prepared a detailed proposal for the augmentation of departmental research facilities and sent to DST, New Delhi. The proposal contained a financial requirement of rs. 2.79 Crores. The proposal, though overall of the department is centralised to a focal item of the Bio prospecting of Indigenous Plant Wealth. This proposal is approved by the DST and an amount of **Rs.40.5 lakhs** was sanctioned for the overall development of the department for next five years.

CHEMISTRY

DST FIST : Submitted a proposal worth Rs. 78.8 lakhs under the DST FIST scheme for the infrastructure development of the Department.

ZOOLOGY

Apiary Unit and vermicompost unit of the department were started under the COSIP programme.

18. Community services:

MATHEMATICS

The teachers and students of the department have actively participated in the clean Kerala Campaign organized by the Govt. of Kerala. We extended our services to students of Mutholy Colony in developing their aptitude in Mathematics by engaging classes on Saturdays.

STATISTICS

Dr. K.K. Jose is Joint Treasurer of St. Vincent De Paul Society, Palai CC and PTA President at Alphonsa College, Palai. Also Dr. Benny Kurian is Secretary/Treasurer of various clubs like Wise Mens, Rotary International, YMCA etc. and is involved in various community services. Dr. Sebastian George is N.C.C. officer in the college and is leading various community service programmes.

PHYSICS

We have organized solar energy popularization programme, and distribution of solar lamps to public, in collaboration with various agencies.

BOTANY

1. Workshop on Traditional medicine and medicine preparation conducted on 19 and 20 November, 2007.
2. Seminar on Natural rubber, jointly organised by Department of Botany and Meenachil Rubber Marketing and processing co-operative Society on 22-8-07
3. Dr. Jomy has given a radio-talk on 11-3-2007 on Tribal remedies at Thiruvananthapuram AIR
4. Dr. Jomy has given a radio-talk on 21-10-2007 on Aushadhasasyngalum Keraleeyarum at Thiruvananthapuram AIR
5. Dr. Jomy has given a radio-talk on 15-6-2008 on Keralathile Vanangalile jaivavaividhyam at Thiruvananthapuram AIR

CHEMISTRY

The teachers and students of the department have actively participated in the “Clean Kerala Campaign” organized by the Govt. of Kerala. We have also organized various seminars, workshops etc. for the prevention of plastic pollution and to make the public aware of the need of solid waste management. The teachers give lectures and talks to students of other colleges and schools on topic related to Environmental issues. Dr.Sunny Kuriakose gave lectures to the Municipal Councilors of Pala Municipality on Plastic Pollution and related issues.

BIOTECHNOLOGY

The department in collaboration with the NSS unit of the College conducted the following Camps Blood group testing and Medical awareness Camp at Mutholy Gram Panchayat in February 2007 and another camp at Parumala Panchayat The Department also organized a training programme for women in association with Kudumbasree Unit in Mushroom cultivation The Department is involved in providing assistance to Municipal authorities’ details regarding the levels of microbial contamination of Meenachil river water.

GERMAN

The students of German, under the auspices of V.D.S took active part to organise a programme for the German Returned Malayalees on 3 Oct. 2007.

SYRIAC

The only faculty member is acting as the Bursar and in this capacity he involved in all activities of the college

ECONOMICS

The students of the Economics Department, under the auspices of the Economics Association took active part in the Clean Kerala Programme, organized by the Government of Kerala to contain ‘Chikun Guniya’.

BIOTECHNOLOGY

The department in collaboration with the NSS unit of the College conducted the following Camps
The Department also organized a training programme for women in association with Kudumbasree Unit in Mushroom cultivation

The Department is involved in providing assistance to Municipal authorities' details regarding the levels of microbial contamination of Meenachil river water.

ZOOLOGY

- a) In order to generate enthusiasm among students and public on Life Science Studies, the department installed a stall of Zoology in the science exhibition along with the inter school. Science festival of Higher secondary schools, at St. Joseph's H.S.S. Choondachery from 10-11-05 to 13-11-05.
- b) Actively participated in the AIDS awareness programme of the college.

POLITICS

Our faculty members are very much involved in the community services both inside and outside the campus.

Dr. Shajimon K Mathews

- a. A Seminar jointly sponsored by Erattupeta Block Panchayat and ICDS project on the topic Prevention of Child Labour and Child Abuse 10th Dcecember 2006.
- b. National Seminar held at Govt. College Nattakom on the topic Human Rights and Judiciary.

Dr. Stany Thomas

- a. Executive committee member and Hon. Treasurer, Total Response to Alcohol and Drug Abuse (TRADA) - an organization Sponsored by Ministry of Social Justice, New Delhi, which works in the field of temperance movement and it, is recognized by the UNESCO.
- b. Co-cordinator, Dr. Kurian Mattom Foundation for Alternative Education Programme. Foundation has adopted a village at Mutholy and various developmental programmes are being initiated under the banner STAEP- St.Thomas College for Alternative Education programme.
- c. Member, National Service Scheme, M.G. University level Advisory Committee.

COMMERCE

The Faculty and the students of the Department actively participated in the "Clean Kerala Campaign", and with the support of the Municipal Staff the drainages in the locality were cleaned. The students collected used clothes and supplied it to the mentally ill inmates of ' Mariasadanam' in Palai.

PHYSICAL EDUCATION

We organized Swimming Classes for the Children of the nearby locality and the children of the college staff. Apart from that training in Volleyball and Athletics were imparted to the local students. The teachers and students of the department have actively participated in the clean Kerala. Campaign organized by the Govt. of Kerala

ENGLISH

Under the leadership of Prof. Franci Mathew, the students cleaned the campus. Our students and teachers visit 'Maria Sadan', a home for the mentally challenged people and donate food and clothes.

MALAYALAM

The teachers and students of the department have actively participated in various programmes organized by the Local Municipal authorities in connection with the clean Kerala campaign. Most of our teachers give lectures in various workshops, seminars, Parent Teacher Association meeting etc.

19. Teachers and officers newly recruited:

STATISTICS

Three new teachers for M.Sc. Biostatistics

Ms. Flowery Francis

Ms. Smitha Mathew

Ms. Tintu Thomas

COMMERCE

Steps have been initiated for the recruitment of teachers in the vacant posts. In the meanwhile the following teachers have joined the Faculty as Guest lectures on adhoc basis.

1. Dr. Sreedhar P.Nair

2. Ms. Deepa Mathew

20. Teaching – Non-teaching staff ratio:

MATHEMATICS

8: 0

STATISTICS

10:1

PHYSICS

2:1

CHEMISTRY

2.5:1

BIOTECHNOLOGY

4: 1

BOTANY

7:2

ZOOLOGY

3:1

COMMERCE

Administrative staff services are provided from the common pool of the college. The Department has no separate post of Non teaching staff.

PHYSICAL EDUCATION

2:1

HINDI

6:1

21. Improvements in the library services:

MATHEMATICS

Separate sections for P.G and U.G students were started in the newly constructed library.

Literature searching and book lending services are fully computerized and automated.

Computerized bar coding system was introduced in the library. Reprographic facilities and internet searching facilities are made available in the library.

STATISTICS

Library time extended from 8.00 am to 6.00 pm.

PHYSICS

New volumes have been added to the library.

CHEMISTRY

Separate sections for P.G and U.G students were started in the newly constructed library. Literature searching and book lending services are fully computerized and automated. The departments and library are connected by internet. 4000 e-journals are made available in the study centre free of cost with complete access to students, researchers and teachers. Computerized bar coding system was introduced in the library. Reprographic facilities and internet search facilities are made available in the library.

BIOTECHNOLOGY

An amount of Rs 25,000 is spend every Semester for purchase of latest textbooks and practical manuals. In addition e-books available online are downloaded and used for preparation of study material and for practical instructions.

POLITICS

The duration for which the library is open for the students and staff has been extended.

Periodicals

Alive, Down to Earth, Kerala Calling, Kurushetra, Indian Currents, New India Insight, News Week, Seminar, Secular Citizen, University News, AIU News, U.N, Woman's Era

Journals

Human Rights Global Focus, Journal of Indian Economic and Social History, Indian Journal of Political Science, Rural India, South Asia Economic Journal, Yojana

The M.G. University Study Centre functioning in the College Campus offers a rich variety of more than 6000 latest high prized books in almost all subjects. The Electronic Library called **INFLIBNET**, which stocks around 4000 e-journals, is freely accessible.

The number of e-journals available on different subjects is:

Philosophy & Politics-124, Humanities-25, Politics-153, Law-61, Sociology-134

COMMERCE

The fully computerized and automated Library services and the new Library Timings are found to be very user friendly.

ENGLISH

Numerous new books are purchased with amount sanctioned by the UGC under PG assistance. Besides the Dept, every year adds to its own collection of books with the funds collected the students.

MALAYALAM

We have a good library, working so efficiently, under the supervision of the Department of Malayalam. Dr. Davis Xavier is the person in charge. Bar coding system was introduced in the library.

HINDI

The Department has no separate library. Now there are 12000 books in Hindi. Besides this the university study centre provides facilities to use the Books in Hindi.

22. New books/journals subscribed and their value:

MATHEMATICS

Annals of Mathematics and American Mathematical Society

STATISTICS

with Rs.4 lakhs purchased.

PHYSICS

New Books :
Journals :

CHEMISTRY

New Books :
Journals :

BIOTECHNOLOGY

New Books Purchased: 30

GERMAN

A Bulletin, DEUTSCHLAND is freely obtained from the Embassy of the Federal Republic of Germany, which is distributed freely among staff and students through the library. The Newsletter : Sprachnachrichten is also distributed freely to more than 100 German Teachers/ Students throughout India by the Lecturer in German.

POLITICS

More than twenty five books have been purchased with a total cost of Rs.20000/-.

COMMERCE

New Books :
Journals :

ENGLISH

New Books :
Journals :

HINDI

New Books : 310
Journals : 13
Newspaper (Hindi) - 1

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

MATHEMATICS

The student assessment of teachers was introduced in the P.G. Classes. The II and IV semester M.Sc students are asked to fill up the assessment forms and hand it over to the Head of the Departments. This will be handed over to the teachers concerned and they will be asked to rectify the defects and improve the quality of teaching accordingly. The P.G. students are encouraged to use the facility of on-line assessment of teachers and the results will be handed over to the teachers concerned to effect the quality assurance process.

STATISTICS

In all courses student assessment is introduced and teachers are instructed to pay special attention to more talented as well as disabled students.

PHYSICS

The student assessment of teachers was introduced in the P.G. Classes. The II and IV semester M.Sc students are asked to fill up the assessment forms and hand it over to the Head of the Departments. This will hand over to the teachers concerned and asked them to rectify the defects and improve the quality of teaching accordingly. The P.G. students are encouraged to use the facility of on-line assessment of teachers and the results will be handed over to the teachers concerned to effect the quality assurance process.

CHEMISTRY

The student assessment of teachers was introduced in the P.G. Classes. The II and IV semester M.Sc students were asked to fill up the assessment forms and hand it over to the Head of the Department. These were handed over to the teachers concerned and were asked to rectify the

defects and improve the quality of teaching accordingly. The P.G. students are encouraged to use the facility of on-line assessment of teachers and the results will be handed over to the teachers concerned to effect the quality assurance process.

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 who make a clear and honest analysis of the teachers' performance.

BOTANY

MSc Botany and BSc. Botany. A detailed Proforma was designed on this regard and is distributed among the students. Discussion of the students feed back in the departmental meeting was done and necessary steps on their comments are implemented.

GERMAN

Feedbacks on teacher performance are given by Graduated students.

POLITICS

Student's feed back is collected and appropriate action is taken. The P.G. students are encouraged to use the facility of on-line assessment of teachers and the results will be handed over to the teachers concerned to effect the quality assurance process.

COMMERCE

Students assessment of teachers has been introduced both at the P.G. and U.G. levels. Feedbacks are used for individual corrections. Besides, the feedbacks collected by the Principal are given to the respective teachers for corrective actions.

ENGLISH

Students are given assessment forms to evaluate their teachers. Apart from this, evaluation is taking place though informal feedbacks. Every correction required is discussed in the dept. meetings and implemented immediately.

MALAYALAM

The student assessment of teachers was introduced in the PG classes, The II and IV semester MA students are asked to fill up the assessment forms and hand it over to the Head of the Department.

HINDI

The student assessment of teachers was introduced in the IVth semester and Ist semester P.G. classes. The students are asked to fill up the assessment forms and hand it over to the Head of the Department. This will be handed over to the teachers concerned and they are asked to rectify the defects and improve the quality of teaching.

24. Unit cost of education:

STATISTICS

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

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

The administrative wing of the college is centralized and the processes of general administration, admissions, examination results, issue of certificates etc are partly computerized and automated. New student –friendly counters were opened to help the students in their administrative needs.

26. Increase in the infrastructural facilities:

MATHEMATICS

A separate room was allotted to the Dept of Mathematics

STATISTICS

Since there was no need, not much increase in infrastructure was needed.

PHYSICS

Both UG and PG laboratories were modified. The UG laboratory has been relocated to close proximity of department. A new research laboratory for theoretical physics has been created.

CHEMISTRY

Postgraduate laboratories were renovated. Work tables were modified with glass tops to prevent corrosion and rusting. Separate cubicle-type cabins were provided to Head of the Department, research guides and research consultants.

BIOTECHNOLOGY

The establishment of Animal Cell culture laboratory was an important event in the development of facilities in the department. It was also possible to procure advanced instrumentation like the Thermocycler, CO₂ incubator, Inverted and Phase contrast microscopes which has made possible the conduct of Practicals at an advanced level.

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 Ethnobiology lab has been built
4. A separate herbarium has been built

POLITICS

The department has got computer and round the clock broadband internet facility

COMMERCE

Postgraduate classes have been refurnished and renovated. The staff room has been provided with cabin for the Head of the Department. Toilet facilities have been improved.

ENGLISH

A new language lab was established. Plenty of new C D s were purchased to enrich our video library. A new cabin was set up for the HOD.

HINDI

P.G. Classes were renovated. Separate cabins were provided to Head of the Department, Research Guides and Research Scholars.

27. Technology upgradation:

STATISTICS

PC's were repaired and upgraded.

PHYSICS

The department is connected with the library by intra networking. 24 hours broad band facility is made available in the department, New equipments were procured in the research laboratory to facilitate the research work of the research scholars.

CHEMISTRY

The department is connected with the library by intra networking. 24 hours broad band facility is made available in the department, New equipments were procured in the research laboratory to facilitate the research work of the research scholars.

BIOTECHNOLOGY

The introduction of a Certificate Course in Bioinformatics made it necessary to improve the technology related section. While a separate center for Bioinformatics is being planned, it was possible with the collaboration from Department of Biostatistics to use bioinformatics software for advancing the students knowledge in the area of Bioinformatics.

POLITICS

The department is connected with the library by intra networking. 24 hours broad band facility is made available in the department.

Computer and internet access and training to teachers and students:

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

Computer and internet access and training to teachers and students:

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

COMMERCE

Computer assisted teaching aids are in use in the department.

ENGLISH

Sophisticated equipments were procured for the language lab. E journals have been accessed.

28. Computer and internet access and training to teachers and students:

MATHEMATICS

All the students and interested teachers are provided with computer training in the computer centre. Students and teachers are taking advantage of this facility

STATISTICS

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

PHYSICS

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

CHEMISTRY

Broadband internet facility is made available in the department. All the students and interested teachers are provided with computer training in the computer centre. Students and teachers are taking advantage of 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. Full access to these computers for students is given free.

COMMERCE

The Department has net connected computer in the staff room. Besides students and the faculty can access the Internet at the computer centre or in the Library. Computer training is provided to students in the computer lab as part of the Add-on course offered by the Department.

PHYSICAL EDUCATION

All the students and interested teachers are provided with computer training in the computer centre. Students and teachers are taking advantage of these facilities.

ENGLISH

All teachers have undergone training in the use of new computer programmes. PG students are given training as part of their curricular work.

HINDI

All the P.G. students and interested teachers are provided with computer training in the computer center. Students and teachers are taking advantage of these facilities.

29. Financial aid to students:

MATHEMATICS

The department has instituted K. A. Jose Endowment to the M.Sc, I sem. topper of every year.

STATISTICS

KPCR Scholarship – 12 (full fee concession)

UGC Merit Scholarship for Rank holders – 2 (40000 X 2 = Rs.80000)

PHYSICS

The department has instituted A.V.Varkey cash award for the achievements in 1st year MSc examination.

CHEMISTRY

The department has instituted Joy Alex Memorial Scholarship to the M.Sc topper of every year. This includes a citation and cash prize. The department is also giving awards to the JRF-NET qualifiers every year.

BIOTECHNOLOGY

Apart from University Scholarships available to Meritorious students, the Department also encourages the students to apply for the UGC sponsored Indira Gandhi fellowship for Single Girl Child and other such fellowships available. The P.T.A sponsored merit scholarship is made available to the students. The College also helps students obtain bank loans for their financial help.

BOTANY

Even though there is no common arrangement at the department level the poor students are helped by the teachers as and when the financial help is needed.

ZOOLOGY

- a) Text books are provided to the weaker student
- b) The department provides financial help to the poor students in clearing their dues and arrears before final exam.
- c) Partial funding to poor students in the study tour programmes.

POLITICS

A Sum of **Rs. 5000/-** has been set a part by the department as financial assistance to the poor and needy students.

COMMERCE

During the year an amount of Rs. 7000/- has been disbursed to students as scholarships including Rs. 2000/- to Dalit students.

PHYSICAL EDUCATION

Financial aid is provide to the needy & deserving students who excel in sports. apart from that Late Prof. Jose Kokkad memorial endowment instituted by the Sports Alumni of the college is awarded to the best sports person of the college every year.

ENGLISH

With the help of the college, the dept. provides poor students with text books. They are given free meals also. Some teachers help students personally also.

MALAYALAM

The department has instituted Prof. R.S. Varmaji scholarships for the BA topper of every year.

HINDI

The department has instituted Gyan Devi Puraskar to the M.A. topper of every year.

30. Activities and support from the Alumni Association:

MATHEMATICS

The department has started an alumni association. 1979-81 Graduate Batch of Mathematics Dept. in connection with their silver jubilee get-together has donated Rs. 50,000/- to the college for Air-conditioning of their old classroom which is the Tisserant Hall now.

STATISTICS

Active Alumni Association. They sponsor a quiz competition in the name of late Prof. K. Ramakrishna Pillai.

CHEMISTRY

The department has a very active alumni association. The association members meet once or twice in a year and various activities like family get-togethers, group discussions etc are conducted regularly. The association has instituted an "Outstanding Alumni Award" and the first award was given to Prof. K.L. Sebastian, Professor, I.I.Sc Bangalore (the recipient of the coveted Santhi Swaroop Bhatnagar Award).

BOTANY

REPORT OF THE BOTANY ALUMNI ASSOCIATION 2007-2008

Workshop on Traditional medicine and medicine preparation was conducted on 19 and 20 November, 2007. Seminar on Natural rubber, was jointly organised by Department of Botany and Meenachil Rubber Marketing and processing co-operative Society on 22-8-07

ZOOLOGY

Alumni provide information and guidance for Higher Education and employment opportunities to Zoology students.

ECONOMICS

An Economics Alumni Association was formed as part of the Ruby Jubilee Celebration. There was a reunion of M.A. students of 1979-81 batch on 8th September 2007, which was attended by 16 of them (along with their family members) out of the total of 18 students.

POLITICS

The department has a very active alumni association. The association members meet once or twice in a year and various activities like family gathering.

COMMERCE

The Commerce Alumni Association is very active and it supports the various activities of the Department. The Commerce Alumni Association has instituted Prof. Philip John Foundation (corpus Rs. 1,00,000) and Prof. John Zacharias Endowment (Corpus Rs. 50,000) in the Department. On 27th July 2007 the Association organised a Seminar on Management Education with resource persons from ICFAI University. It also arranged a campus placement programme for M.Com students and 3 students secured appointment of Faculty of the ICFAI National College. On 31st January 2008 Prof. Philip John Memorial lecture – “Socialism- a reality or myth” was made by Sri. K.M. Mani .M.C.A.

PHYSICAL EDUCATION

The department has a very active Sports alumni association. It has got in its ranks more than 40 International Athletes holding dignified posts actively involving in the Alumni association. the Sports Alumni make it a point to visit the college during the Bishop Vayalil All Kerala Inter collegiate Volleyball Tournament.

ENGLISH

The Alumni Association as been very supportive. Dr. Mathew Joseph Endowment All Kerala Inter collegiate Literary Quiz is conducted with their support.

MALAYALAM

The Department has a very active Alumni Association. The association members meet once or twice in a year and various activities like batch-wise get-together, group discussions etc. are conducted regularly.

HINDI

The Alumni Association ‘Hindi Parivar’ is very active in the Department, The association members meet once or twice in an year.

31. Activities and support from the Parent-Teacher Association:

MATHEMATICS

The Parent-Teacher Association shows keen interest in the academic activities of the department. The class-wise PTA is also made functioning in the department. They meet once or twice in a

year and individual attention is given to each student by the interaction of the tutor and the parents.

ECONOMICS

The Parent-Teacher Association shows keen interest in the academic activities of the department. The class-wise PTA meetings are also functioning in the department. They met twice in 2007-08. Individual attention is given to each student by the interaction of the tutor and the parents. PTA allotted Rs. 10,000 for the Ruby Jubilee celebrations of the PG Department.

STATISTICS

PTA is also active. At least 2 meetings are held in an year.

PHYSICS

The Parent-Teacher Association shows keen interest in the academic activities of the department.

CHEMISTRY

The Parent-Teacher Association shows keen interest in the academic activities of the department. The class-wise PTA is also functioning in the department. They meet once or twice in a year and individual attention is given to each student by the interaction of the tutor and the parents.

POLITICS

Parent Teachers Association, University and Government provide adequate encouragement in the form of Scholarships, financial assistance, free boarding and loading etc.

COMMERCE

The Parent-Teacher Association is very active in the college. The Department regularly organizes class wise Parent-Teacher –meetings which serve as an excellent forum for personal interaction of the parent with teachers.

PHYSICAL EDUCATION

The Parent-Teacher Association shows keen interest in the Sports activities of the College. The encouragement provided by the PTA has been a real moral booster for the Athletes. The Boarding expenses of some of the selected Athletes are taken care of by the PTA.

ENGLISH

The English Dept. has very active interaction with the parents. They are constantly invited to the department and they give valuable suggestions for the conduct of our activities.

HINDI

The class-wise PTA is made functioning in the Department. They meet once in an year and individual attendance is given to each student by the tutor.

32. Health services:

The college provides centralized health services to all teachers and students. 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 students.

33. Performance in sports activities:

MATHEMATICS

Apart from the hectic academic schedule, the students of our department are actively participating in the sports activities of the college. Sri. Thomaskutty C. Tom of III DC Maths has brought many prizes in swimming competitions.

CHEMISTRY

Apart from the hectic academic schedule, the students of our department are actively participating in the sports activities of the college and they have brought many laurels in wrestling and power lifting in the university and state level competitions.

ECONOMICS

Apart from the busy academic schedule, the students of our department are actively participating in sports and games (athletics, weight lifting, etc.) at state and national level competitions and secured many prizes.

POLITICS

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

The year 2006-07 was a fabulous one in the sport history of the college in terms of achievements at highest level and placement record. The details are given below:

A] Performance at International Level

1. Sajeesh Joseph – **Bronze Medal** in Asian Junior Athletic Championship held at Beijing, Represented India in the SAF games and World Junior Athletic championship 2006
2. Kannan S – Represented India In SAF games (coloumbo) and Asian Junior Athletics held at Beijing 2006.
3. Bineesh L.L. - Represented India In SAF games (coloumbo) and Asian Junior Athletics held at Beijing 2006.

B] Performance at 33rd National Games, Assam.

1. Ahamed Kabir – Gold Medal 4 X 100 relay
2. Sajeesh Joseph – Silver medal 800m

C] Performance at All India Inter University Competition

1. Bibin Baby – Gold Medal 4X400 Relay
2. Dhaneesh P – Volleyball Men IV.
3. Savad P.M. – Volleyball Men IV
4. Niju R K - Volleyball Men IV

D] Performance at M.G.university Inter Collegiate Competition

1. Power Lifting – Winner
2. Swimming - Winner
3. Water polo - Winner
4. Cross Country - Winner
5. Kabaddi - Runner Up
6. Athletics - Runner Up
7. Wrestling - Third
8. Volleyball - Third

A total of 28 students got selected to represent the M.G.University in the All India Inter University competitions.

34. Incentives to outstanding sportspersons:

The college has many scholarships and awards, instituted by the PTA and the Alumni Association for encouraging outstanding sports persons.

Late Prof. Jose Kokkad memorial endowment instituted by the Sports Alumni of the college is awarded to the best sports person of the college every year.

35. Student achievements and awards:

MATHEMATICS

Sri. Vishnu Vijay and Sri. Arunraj V. A. of III DC Maths have won many intercollegiate Quiz Competitions.

Sri. Vishnu Vijay and Sri. Ajith Joseph of III DC Maths were selected in the Campus recruitment conducted by TCS.

STATISTICS

- | | |
|-----------------------|---|
| 1. Lishamol Tomy | - Jan Tinbergen Award for young researchers by International Statistical Institute, Netherlands |
| 2. Vishnuraj R. | - First Prize in Vocal Music in M.G. University Youth Festival |
| 3. Manu Marium Thomas | - M.Sc.(Stat) I Rank |
| 4. Royes Joseph | - M.Sc. (Biostat) I Rank |
| 5. Smitha Mathew | - M.Sc. (Biostat) II Rank |
| 6. Sreelekha K.R. | - M.Sc. (Biostat) III Rank |
| 7. Anne Philip | - I Prize- Research Project Competition |
| 8. Revathy R. | - I Prize- Research Project Competition |
| 9. Neemdu R. | - I Prize in Quiz |
| 10. Ancy Joseph | - I Prize in Quiz |
| 11. Neemdu R. | - UGC NET |
| 12. Cyriac George | - Selection to Indian Statistical Service |
| 13. J. Sreekumar | - Awarded Ph.D. by M.G. University |

PHYSICS

Ms. Gishamol Mathew won the *first rank* in MSc in 2004-2006 batch and has also been awarded NET-JRF(CSIR) and GATE.

CHEMISTRY

Mr. Suraj Soman of II MSc. Chemistry was Awarded UGC National Merit Scholarship by the University Grants Commission, New Delhi

BIOTECHNOLOGY

Miss Preena , Miss Soumya Krishna and Miss Manjusha of the Applied Microbiology Course were awarded the first, second and third ranks for the Post graduate course in M.Sc Applied Microbiology of Mahatma Gandhi University. Rince John was placed second for the DBT JRF examinations.

BOTANY

1. Awards:

Sri Arshad T.I. has been awarded the third prize in the All Kerala competition of MSc project presentation competition held by Kerala Botanical Society on 27-8-2004 at St. Theresa's College, Ernakulam.

2. UGC-CSIR tests :ONE

ECONOMICS

Anumol Sebastian secured III rank in M.A. Economics examination of the M.G. University, 2007. Ms.Jaya Sadasivan got placement as lecturer in Economics, in ICFAI University Centre at Kollam.

POLITICS

1. Bishop Vayalil Scholarship – Top Scorer in MA Politics Examination
2. Fr. Joseph Kinattukara cash award – Student who gets highest marks in B.A. 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

Three students of the college represented India at various International Competition

1. Sajeesh Joseph – **Bronze Medal** in Asian Junior Athletic Championship held at Beijing, Represented India in the SAF games and World Junior Athletic championship 2006
2. Kannan S – Represented India In SAF games (Colombo) and Asian Junior Athletics held at Beijing 2006.
3. Bineesh L.L. - Represented India In SAF games (Colombo) and Asian Junior Athletics held at Beijing 2006.

Performance at 33rd National Games, Assam.

1. Ahamed Kabir – Gold Medal 4 X 100 relay
2. Sajeesh Joseph – Silver medal 800m

ENGLISH

Ms. Nimmy Rose Mathew scored the I Rank and Ms. Navitha Elizabeth Joseph III Rank in 2006 PG exams of the university. Ms. Roopa Jose, Ms. Alphonsa Theresa Mathew and Ms. Biyamol George of the same batch qualified the NET. 18 students of this batch passed the SET. Dr. Joy Jacob as class teacher, and all the teachers of the dept. worked together for the achievement.

MALAYALAM

Ms. Reeja of MA (IV Semester) was honoured for achieving the I Rank in the MA Degree examinations of the Mahatma Gandhi University, 2006.

36. Activities of the Guidance and Counselling unit:

MATHEMATICS

The teachers of the department take keen interest in the guiding, counselling and mentoring services. The students get personal attention from the teachers in their academic and curricular problems. They also get guidance to face national level examinations such as UGC-CSIR JRF/NET, GATE and state level examinations like SET, SLET etc.

STATISTICS

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

PHYSICS

The teachers of the department take keen interest in the guiding, counseling and mentoring services. The students get personal attention from the teachers in their academic and curricular problems. They also get guidance to face national level examinations such as UGC-CSIR JRF/NET etc.

CHEMISTRY

The teachers of the department take keen interest in the guidance, counselling and mentoring services. The students get personal attention from the teachers in their academic and curricular activities. They also get guidance to face national level examinations such as UGC-CSIR JRF/NET, GATE and state level examinations like SET, SLET etc.

BOTANY

Eight students from Final year degree course and 4 students from PG course have attended the counselling

POLITICS

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

COMMERCE

In the Department students get personal guidance and counseling of the tutors in charge of them. Besides this, Dr. V.V. Georgekutty and Sri. K.V John, two qualified counselors in the Department extend their services to the students who need special counseling. Counselling services are available at the college level also.

ECONOMICS

The teachers of the department take keen interest in the guiding, counseling and mentoring services. The students get personal attention from the teachers in their academic and curricular problems. Under the auspices of the Career Guidance cell of the Department, coaching classes were arranged for the postgraduate students for the U.G.C test.

ENGLISH

Prof. Cherian Vadakkekunnel is a trained career counselor. Hundred of students benefit from him. Prof. K.A. Alexander is a member of the college counseling team.

MALAYALAM

The teachers of the department take keen interest in the guiding, counseling and mentoring services. The students get personal attention from the teachers in their academic and curricular problems. They also get guidance to face national level examinations such as UGC-NET and state level examinations. The Head of the Department takes personal initiative to inculcate the great values of Indian tradition. ARSHABHARATHA SAMSKARA – in students by encouraging teachers- student interaction, and personal guidance and mentoring to the students by teachers.

HINDI

The students get personal attention from the teachers in their academic, curriculum and co-curricular activities.

37. Placement services provided to students:

ECONOMICS

We organized an expert lecture on 'Career Opportunities in Economics'. Ms. Rosemary K. Abraham, Lecturer in Economics, Assumption College, Changanacherry, and I rank holder in the

IES examination conducted by the UPSC, delivered the lecture. Guidelines to prepare themselves for the same were also provided.

MATHEMATICS

The students of our department have got placements in I T field. In addition, we helped the students for finding jobs and research career both in India and abroad.

STATISTICS

There is a qualified career counselor. We provide guidance and organize campus interviews. During 2007-08, all 19 students of M.Sc. Biostatistics and 9 out of 14 students of M.Sc. (Stat.) got placement

PHYSICS

Apart from the general placement service provided to students in the college, the faculty members give advise to students to get better opportunities in Physics, in both academics and career.

CHEMISTRY

The department has organized campus interviews and the students of our department have got placements in various industries and chemical laboratories. In addition, we helped the students to find jobs and research careers both in India and abroad.

BIOTECHNOLOGY

A collection of Biotechnology related industries and research institutions in India are made available to the students for their pursuit. Syllabus of Joint CSIR/UGC examination and study materials are available for the students for their use. Project formats of UGC, DST, and ICMR are made available to students on demand. Copies of Question papers related to conduct of Ph.D entrance examinations of M.G University are available for ready reference. The list of students who have been placed is attached below:

1. Binu Jacob: Scientific database curator, Jubilant Biosys, Bangalore
2. Sijo Jose: Lab- in- Charge (Biotechnology division), Peerumadu Development Society, Kanjirapally, Kerala.
3. Unnikrishnan. R: Lab- in- Charge (Microbiology division), Amrutham Bioorganic Research and Development, Wadakancherry, Kerala.
4. Jitha Thomas: Research Associate, Semler Research institute, Bangalore.
5. Deepa Sebastian: Research Assistant, Kerala Agriculture university, Vellanikara, Trichur, Kerala.
6. Remya Vyasan: Guest Lecturer, Department of Biotechnology, S.N College, Kumarakom, Kerala
7. Remya Mani: Trainee scientist (Molecular Biology and Plant physiology Division), Rubber research institute of India, Kottayam, Kerala
8. Ambily. P.K: Trainee scientist (Molecular Biology and Plant physiology Division), Rubber research institute of India, Kottayam, Kerala
9. Maneesh Kylas: Trainee scientist (Biotechnology Division), Rubber research institute of India, Kottayam, Kerala
10. Shaimol Manuel: Trainee scientist (Biotechnology Division), Rubber research institute of India, Kottayam, Kerala
11. Sanju. C.R: Trainee scientist (Biotechnology Division), Rubber research institute of India, Kottayam, Kerala
11. Sheethal Ann Mathews: Trainee scientist (Biotechnology Division), Rubber research institute of India, Kottayam, Kerala
12. Lekshmi M Nair: Guest Lecturer, Department of Biotechnology, S.N College, Kumarakom. Kerala
13. Juna Beegum: Project Associate, Central Tuber crops Research Institute, Sreekariyam, Kerala.

14. Jojo Jose: Lab- in- charge (Biotechnology division), Malanadu Development Society, Kanjirapally, Kerala
15. Abhilash T.S: Clinical Research Associate, IFCR, Ernakulam, Kerala
16. Beena R: Clinical Research Associate, IFCR, Ernakulam, Kerala
17. Meera George: Clinical Research Associate, IFCR, Ernakulam, Kerala
18. Remya S: Clinical Research Associate, IFCR, Ernakulam, Kerala
19. Soja Nazir: Clinical Research Associate, IFCR, Ernakulam, Kerala
20. Swapna P. Stantly: Clinical Research Associate (Trainee), IFCR, Ernakulam, Kerala
21. Gena Annie Cherian Quality Control Officer, Sancrose Pharmaceuticals, Mavelikara
- 22 Vidhya S: Quality Control Officer Labmate India, Chennai
23. Tomsy Thomson: Project associate, Agriculture University Trichur
24. Elizabeth: Project associate, CUSAT
25. Nishi Susan: Project associate, NCL, Pune
- 26.Divya Mohan: Guest Lecturer, Department of Biotechnology, S.N College, Kumarakom. Kerala

BOTANY

During the year 2006-2007 the department of botany has been able to arrange placements for four students at research. They are:

1. Jayakumari V Research Fellow
2. Maju TT, HSST, Thoppran Kudy
3. Sreejesh KR HSST, Pathinaramkandam
4. Jayakrishnan R. HSST, Devikulam

POLITICS

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

COMMERCE

The Department regularly organizes campus placement programmes. The Department organized a campus recruitment drive by the ICFAI University and three students were selected as Faculty for the various ICFAI colleges. The Department also guided and supported the students for getting placements in other companies. Dr. K.V. Thomas, a trained career counselor co-ordinator the career/placement related activities of the Department.

PHYSICAL EDUCATION

A total of 12 students on the basis of their meritorious performance in sports got placement in various Public sector enterprises:

ENGLISH

Students are given guidance to join the premier institutions in the country. Last year many students from III BA joined a Cell phone company. Most students prefer jobs in teaching or journalism.

38. Development programmes for non-teaching staff:

The development programmes for non-teaching staff were organized by the college. No department-level programmes were conducted during 2006-2007.

39. Healthy practices of the institution

MATHEMATICS

Multi-purpose identity cards were given to the students. Students were encouraged to use computer and internet. A 3 tier tutorial system was introduced. Students were encouraged to use

the facility of on-line teacher assessment. A student-centered administrative system was introduced. Bridge courses were started and compulsory computer courses were introduced for the students. The tutorial system was strengthened. Research guides and students were encouraged to do research of global standard.

STATISTICS

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

CHEMISTRY

Multi-purpose identity cards were issued to the students. Students were encouraged to use computer and internet. A 3-tier tutorial system was introduced. Students were encouraged to use the facility of on-line teacher assessment. A student-centered administrative system was introduced. Bridge courses were started and compulsory computer courses were introduced for the students. The tutorial system was strengthened. Research guides and students were encouraged to do research of global standards.

BIOTECHNOLOGY

Work distribution among faculty members to help speedy implementation has been introduced. Evaluation of learning teaching process is strictly followed by implementation of internal assessments. Teacher evaluation by students is an important method adopted to generate considerable improvement in teaching process. This has helped in increasing the level of performance of the teachers. As far as practicals are concerned utmost care is taken to see to it that the students get to have a complete knowledge of modern techniques to make them ready for pursuing a research career or further their academic growth. Work hours in the Department are between 9.00 A.M and 6.30 P.M. Tutorial system is followed. Research aptitude is inculcated in students by making the students participate in seminars and workshops. Participation of students in extra curricular activities, like blood grouping camps, water testing and cleaning programmes and conduct of Mushroom cultivation training programmes is encouraged.

GERMAN

Multi-purpose identity cards were given to the students. Students were encouraged to use computer and internet. A three tier tutorial system was introduced. Students are individually monitored on academic, social and moral aspects through tutorials. Remedial classes were conducted for the degree students who were weak in the subject. Emphasis was given to the development of students from S.C and S.T. categories

POLITICS

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

COMMERCE

The Peer teaching programme initiated by the Department was successfully continued during this year. Effective Communications For Human Resource Development (E.C.H.R.D) – a novel programme launched by the Department has substantially helped in improving the communication skill and general knowledge of the students.

ECONOMICS

Multi-purpose identity cards were given to the students. Students were encouraged to use computer and internet. A three tier tutorial system was introduced. Students are individually monitored on academic, social and moral aspects through tutorials. Remedial classes were conducted for the degree students who were weak in the subject. Emphasis was given to the development of students from S.C and S.T. categories

ENGLISH

Extremely good interpersonal relations are maintained between the faculty and the students. Whenever there is a need, teachers even visit their homes. Teachers are very accessible. Learning and research are promoted

MALAYALAM

Multi-purpose identity cards were given to students. Students were encouraged to use computer, a 3 tier tutorial system was introduced. Students were encouraged to use the facility of on-line teacher assignment. A student-centered administrative system was introduced. Bridge courses were started and compulsory computer courses were introduced for the students. The tutorial system was strengthened. Research guides and students were encouraged to do research of global standard.

40. Linkages developed with National / International, academic / Research bodies

MATHEMATICS

Membership in American Mathematical Society and Mathematical Association of America.

STATISTICS

The Department has excellent linkages with many reputed statisticians and departments at national and international levels. The following are some among them.

- Prof. A.M. Mathai, McGill University, Canada
- Prof. Thomas Mathew, Maryland University, USA
- Prof. A. Kilbas, Bellarus University
- Prof. Hans Houbold, UNO, Vienna
- Dr. D.K. Ghosh, Saurashtra University
- Dr. R.B. Bapat, ISI, New Delhi
- Dr. A.K. Agarwal, Punjab University, Chandigarh
- Dr. M.A. Pathan, AMU, Aligarh
- Dr. M.N. Das, IASRI, New Delhi
- Dr. V.K. Gupta, IASRI, New Delhi
- Dr. Ashish Das, IIT, Mumbai
- Dr. M. Ristic, University of NIS, Serbia

PHYSICS

Dr. Vincent Mathew has visited University of Pecs, Hungary and ICTP, Italy during May, June and July through an exchange programme initiated by INSA. It is hoped that the collaboration with University of Pecs, Hungary would be further supported financially by INSA.

CHEMISTRY

The Department of Science and Technology, Govt. of India and the UGC fund the department by sanctioning major research projects. The department maintains research collaborations with Johannes-Gutenberg University, (Germany), Pusan National University (South Korea), IIT Chennai, RRL (CSIR) Thiruvananthapuram, Cochin University of Science and Technology, and School of Chemical Sciences, Mahatma Gandhi University.

BOTANY

The department of Botany has fresh and healthy contact with the following agencies and persons that are actively engaging 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

GERMAN

The Linkage with DAAD (Deutscher Akademischer Austausch Dienst) has been initiated in this year.

POLITICS

We have strong collaboration with Centre for the Study of Developing Societies (CSDS) through the Department of Politics, University of Kerala; Karyavattom. The faculty and students operate with activities of the CSDS. In collaboration with Ministry of Human Resource Development (MHRD) New Delhi, an awareness programme will be initiated in 'Intellectual Property Rights' for the Public and officials.

ENGLISH

Many teachers are members of IACIS, Hyderabad, British Library Thiruvananthapuram etc.

HINDI

The Department has linkage with central Hindi Directorate New-Delhi.

41. Any other relevant information the institution wishes to add:

The list of papers published in journals/papers presented in seminars and conferences and seminars/conferences attended by the faculty members are attached as the appendix.

MATHEMATICS

We wish to increase the facilities provided to the research students and accommodate more students. The department wishes to send at least one teacher to Refresher Courses bi-annually. The PG students of the department are advised to attend at least one seminar conducted outside the campus every year.

STATISTICS

Our faculty members attend and present papers in at least one national/international seminar every year. Last year our faculty attended 12 national/international conferences/ workshops /seminars etc held at Lisbon (Portugal), Pune, Manipal, Kochi, Calicut etc. Also all students of M.Sc. Biostatistics participated in the ISMS annual conference and pre-conference workshops. Also they conducted field visits in RCC Trivandrum and AIMS, Kochi. Also they undergo 3 months on the job training in reputed biostatistical/ pharmaceutical companies, medical colleges etc. Also they are given training in LaTeX typesetting, as well as training in most statistical softwares like SAS, SPSS, MINITAB, SYSTAT, MATLAB, MATHEMATICA, MAPLE etc

CHEMISTRY

A centre for the National standard Examinations (the first level examination for the selection of students in the National Science Olympiad Programme) has been established at St. Thomas College, Pala (Centre No.KR 142) from 2006 onwards. Accordingly, more than 100 top-students from various higher secondary schools took part in the Exam conducted in the subjects of Physics, Chemistry and Biology on 26 November 2006. Dr. G.D. Gem Mathew, Sr. Lecturer in the Department, was the Centre-in-charge of the Exams.

GERMAN

Published one article in *Sprachnachrichten*, a monthly Journal published from Germany (Dortmund, No. 35, July 2007)

POLITICS

- I. Appu Joseph Jose, Alumni of the Department, was recently selected to the Civil Service by the UPSC.
- II. The Department organizes three endowment lectures:-
 1. Prof. M.T. Tharian Endowment Lecture.
 2. Rao Bahadur Dr. R.M. Mathew Endowment Lecture.
 3. Prof. N. C Mathewkutty Endowment Lecture.
- III. Shri. Udayan B., Lecturer, Department of Politics, NSS College, Changanacherry awarded Ph.D. under the supervision of Dr. V.V. Varghese.

COMMERCE

The Department has brought out its chronicle "The Account". This publication highlights the major activities of the Department for the year.

ENGLISH

Our Quiz Team of Maria Joseph and Steve Vincent bagged many prestigious prizes.

HINDI

Own Research publication Sodh lohithy, since 1992.

GERMAN

An Anthology of Poems and Short Stories by renowned writers of Malayalam was translated into German in six workshops organized from 2004 to 2006 and published under the title: *Welche Farbe hat die Liebe?* (Which is the colour of love?) co-edited by Dr. Mathew John K. and published by D.C. Books, Kottayam.

Paper published by Dr. Mathew John K., "Umformung der Aufnahmenstruktur ..." in: *Akten des XI. Internationalen Kongresses*, Paris 2005, Bern. Peter Lang 2007

Part C

Detailed Plans of the Institution for the Next Year

We are prepared to undertake new academic programmes to face the needs of the present and challenges of the future. For the next academic year, we chalked out a series of programmes to strengthen the curricular and research activities of the college.

1. Improving infrastructure facilities by procuring modern instruments for science departments
2. To establish tie-up with industries for effective knowledge transfer
3. To develop a Bioinformatics laboratory
4. Purchase of Software for Bioinformatics
5. Starting HACCP programme for Applied Microbiology students
6. Setting up of a well organized centralized Instrumentation Room for the science departments and a centralized language lab
7. Setting up of a new Microbiology Lab
8. Setting up of a Documentation room with audio-visual facilities
9. Setting up of a lab for Audio-Video recording

10. Modernization of Labs, Classrooms, etc.
11. Plant Diversity survey, collection, identification of plant genetic resources and rearing of rare and threatened plants with special mention to potential medicinal plants; threat status assessment by field surveys
12. Identifying plant species with high carbon dioxide assimilating potential
13. Studies on the phytochemical parameters and analysis for the delimitations of Plant Taxa (Phytotaxonomy) including the finding of new plant borne chemicals
14. Study of the genetic diversity of selected groups especially medicinal and crop plants
15. *Ex-situ* conservation of rare and threatened endemic plants
16. In vivo conservation of the gene pool of medicinal plants and wild relatives of crop plants
17. Exploration of soil micro flora and bacteria and assessment of soil and water quality
18. Audio-Visual documentation of Plant diversity including bacteria and soil micro flora are the main categories
19. To apply for DST FIST support for more science departments aiming the overall developments of these departments
20. To apply for more specialized courses, especially in the UGC innovative stream
21. To encourage the faculty members to apply for more research projects
22. Encourage and facilitate the teachers and research scholars to publish more papers in international journals
23. It was decided to conduct a Seminar of German Returnees in Oct 2008.
24. To conduct invited lectures with the help of Germanists/ German Nationals
25. To orient students to make use of study opportunities in Germany.
26. To conduct a three day national seminar in Hindi
27. To start M.Phil course in Hindi
28. To start B.A. vocational course in Hindi.
29. To publish the Hindi Journal Sodh Kshitij biannually.
30. It was also decided to apply for 'Add on Course' on "Sustainable Development" to U.G.C.
31. To conduct invited lectures and talks of eminent teachers, scientists and social workers.
32. To conduct more campus placement drives by inviting reputed industries, laboratories, banks, and other nationally and internationally reputed firms.
33. To start a diploma programe in Syriac
34. To start B.A. Syriac
35. Comprehensive UGC coaching for PG students
36. Conduct of Environment awareness programmes
37. Conduct of Spiritual upliftment programmes
38. To introduce Credit and Semester System for UG
39. To encourage and help the teachers and students to achieve 100 percent computer literacy
40. To continue the free tuition programme for the poor students
41. We plan to start an M.Phil. Course in Mathematics under UGC innovative programme.
42. A series of short term workshops in Official Statistics, Biostatistics, Statistics in Banking and Management, Mathematical Statistics etc will be organized.
43. Recognition/Awards to alumni who make achievements in their field of work.
44. Scholarships to deserving students on merit-cum-means basis.
45. New Add on Certificate / Diploma Programmes
46. PG Diploma in Acturial Statistics and Insurance to be started in 2008-'09
47. An International Journal in Statistics and Applications to be started.
48. An International Statistics Conference in 2009-'10
49. To encourage and help the teachers and students to achieve 100 percent computer literacy
50. To continue the Science awareness Programme for the Plus Two students.
51. Career Guidance and Placement Cell to be strengthened
52. More association activities and co-curricular activities.
53. Alumni activities will be strengthened further.

54. Research Activities will be further enhanced. More collaborative works will be under taken.
55. To strengthen the community services by starting free consultancy on solar energy utilization.
56. To maintain the existing research collaboration with international and national laboratories and to establish new collaboration.
57. To take every follow-up action for starting a new P.G. programme named M.Sc Nanochemistry of Chemistry under the Innovative stream of the University Grants Commission.
58. To undertake consultancy services by taking research projects of industries and to produce educational video programmes for Government educational agencies and other television channels.
59. To strengthen the community services by starting free consultancy on environmental related problems such as plastic pollution and solid waste management, water pollution and water management, soil testing, quality control of natural rubber and rubber related products.
60. It is decided to depute as many faculty members as possible to participate in the orientation, faculty improvement programmes, seminars, workshops etc.
61. One-day seminar is proposed in collaboration with Kerala Institute for Local Development Authority (KILA) - for the Women Panchayat and Municipal members.
62. The Politics 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 a practical training to students on the decentralization process in the local administration and governance especially in e- governance.
63. The Politics department has started a pilot study in Participatory Development Programme in Assembly Constituency of Palai
64. It is decided to strengthen and continue the Add-on course offered to the B.Com students. It will also try to upgrade the Accounting Software Tally to match with the emerging needs.
65. Renovate the Swimming Pool, with new filtering plant and dressing rooms
66. To take every follow-up action for starting a new P.G. Diploma programme in Sports Journalism and Sports Broadcasting, under the Innovative stream of the University Grants Commission.
67. To lay 400 meter Synthetic track and construct multipurpose Indoor Stadium.
68. To strengthen the community services by starting free consultancy and training in Athletics Swimming, Volleyball, Wrestling for the children.
69. To maintain the existing collaboration with Kerala State Sports council for nurturing talents in Athletics and Volleyball.
70. To collaborate with the Sports Authority of India to make this institution a center for Excellence in Sports.

Annexure I: List of publications (2006-2007). Papers presented in conference, seminars/conference attended

1. Encapsulation and Controlled Release in Crosslinked Polyacrylamide Networks, Mary Joseph, Tessymol Mathew, Thomas V. Mathew, Kochurani George and Sunny Kuriakose, *Journal of Applied Polymer Science*, 105, 3602, (2007).
2. Cis - Trans Isomerisation in Functionally Modified Polyglycerol Containing Azo Groups: A Novel Photoswitchable System, Shaiju Augustine, Sunny Kuriakose, B. Prakashkumar, Jogy Alex and Lucy Mathew P. *Journal of Applied Polymer Science*, (Communicated).
3. Molecular Transport of Aromatic Hydrocarbons through Lignin Filled Natural Rubber Composites, Thomas V. Mathew and Sunny Kuriakose, *Polymer Composites*, 1 15-24 (2007)
4. Hyperbranched Polyglycerol Based UV Curing Systems, Sunny Kuriakose and Cincy George, Eighteenth Kerala Science Congress, Kannur, January 2007.
5. Applications of Spectroscopy in the Structural Identification of Organic Compounds, Sunny Kuriakose National Seminar on New Frontiers in Chemistry, D.B.college, Thalayolaparambu, February 2007.

6. Functionally Modified Polyglycerol- A Novel UV Curing System, Sunny Kuriakose and Cincy George, 20th Kerala Science Congress, Thgiruvananthapuram, January 2008.
7. Development of a Novel Aromatically Modified Photoresponsive Hyperbranched Polyglycerol for UV Curing Applications, Sunny Kuriakose and Cincy George International Conference on Advanced Materials, Mahatma Gandhi University, February 18, 2008.
8. Photochemical Studies on Novel Linear Polyglycerol Polyol Functionalized with Azo Dyes, Sunny Kuriakose and Cincy George ,ICAM, M.G.University, February, 18, 2008.
9. Development of Novel Photoresponsive Macromolecular Systems Based on Naturally Occurring, Environmentally Friendly Lignins for Paints, Dyes and Coatings, “Polymers: Prospects and Challenges”, Sunny Kuriakose and Cincy George, National Symposium, National Institute of Technology, Calicut, April 4, 2008.
10. Light Absorption and Fluorescence Emission Studies on Linear and Hyperbranched Polyglycerols, “Polymers: Prospects and Challenges”, Sunny Kuriakose and Cincy George and Ambily Chandran ,National Symposium, National Institute of Technology, Calicut, April 4, 2008.
11. Thomas TD 2007. Pretreatment in thidiazuron improves the in vitro shoot induction from leaves in *Curculigo orchioides* Gaertn., an endangered medicinal plant. (Acta Physiologiae Plantarum 29: 455-461. (Springer).
12. Thomas TD 2007. High frequency direct bulblet induction from rhizome explants of *Curculigo orchioides* Gaertn., an endangered medicinal herb. In Vitro Cellular and Developmental Biology – Plant 43: 442-448 (Springer).
13. Thomas TD, Michael A 2007. High frequency plantlet regeneration and multiple shoot formation from cultured immature seeds of *Rhynchostylis retusa* Blume., an exquisite orchid (Plant Biotechnology Reports 1: 243-249. (Springer).
14. Thomas TD, Chaturvedi R 2008. Endosperm culture-A novel method for triploid plant production (Review article- Plant Cell Tissue and Organ Culture – Springer).
15. Thomas TD 2008. The effect of *in vivo* and *in vitro* applications of ethrel and GA₃ on sex expression in bitter melon (Euphytica- Springer, In press).
16. Thomas TD Isolation, callus formation and plantlet regeneration from mesophyll protoplasts of *Tylophora indica* (Burm. f.) Merrill. a medicinal plant. (In revision to In Vitro Cellular and Developmental Biology – Plant – Springer)
17. Thomas TD, Sankar S. Multiple shoot induction and callus regeneration in *Sarcostemma brevistigma* Wight & Arn, an endangered medicinal plant (Communicated to Plant Biotechnology Reports - Springer).
18. Thomas TD The role of activated charcoal in plant tissue culture. (In revision to Biotechnology advances – Elsevier).
19. Thomas TD, Graff A Kranz E Isolation of egg and sperm cells of *Brachypodium distachyon*, a model grass for functional genomics. (Communicated to Sexual plant Reproduction-Springer)
20. Szilvia Z. Tóth, Jos T. Puthur and Győző Garab 2007. Naturally Occurring Alternative Electron Donors of Photosystem II. In Proceedings of International Photosynthesis Congress, Glasgow, U.K. Kluwer Academic Publishers, Dordrecht. (In Press).
21. Szilvia Z. Tóth, Jos T. Puthur and Győző Garab 2007. Alternative Electron Donors Substitute the Inactivated Oxygen-Evolving Complex in Different Plant Species. Cell Stress and Chaperones online 12: 211 (4C-06-P).
22. Jos T. Puthur and P. Pardha Saradhi 2007. Developing Embryos of *Sesbania Sesban* are Highly Susceptible to High Photon Flux Density. Acta Physiol. Plant. (Communicated)
23. Jos T. Puthur 2007. Vesicular Arbuscular Mycorrhizae (VAM) Enhances the Drought Stress Tolerance of *Sesbania sesban*. In Recent Trends in Horticultural Biology (R. Keshvachandran *et al.*, eds.), New India Publishing Agency, New Delhi, India. 837-848.
24. “The Self as Trope”, presented at the national Seminar on Self-writing, organized by Kendra Sahitya Akademi, at Kottayam on Feb. 08, 09, 2007.

24. International Conference on Special Functions and Applications, 18-20 May 2007. Some Applications of Special functional Multivariate Statistical Hypotheses and Geometrical Probability Problems.
25. Annual Conference of Society of Statistics, Computer and Applications, Amaravathi, Maharashtra
26. Central Institute of Hindi, Hyderabad, 17-02-07 – 19-07-07, First Freedom Struggle of India.
27. 'Gobalisation and Hind'. Central Institute of Hindi Hyderabad, 19-02-2007.
28. NCOL-2007; 09-11 April 2007. Kerala University
29. All India Refresher Course on Topics in Mathematics and Physics conducted by Indian Academy of Sciences Bangalore – at Ramakrishna Mission Vidyamandir – Belur Math-Calcutta West-Bengal Dated 14 to 26 May 2007.
30. Conference on "Quantum Phenomena in confined dimension", June 4-8, 2007, held at Abdul Salam International Centre for Theoretical Physics, Trieste, Italy (Presented Paper).
31. Attended National Seminar on Materials Science at Christian college, Chengannoor, (25.03.07 to 27.03.07). Presented a paper on "the effect of heavy ion irradiation on CdTe this films.
32. 'ISOTECH 2007- national Seminar on Applications of Radioisotopes and Radiation Technology', organized by National Association for the Applications of Radioisotopes and Radiation in Industry (NAARRI), Mumbai and Board of Radiation and Isotope Technology (BRIT), Mumbai at Nirmala College, Muvattupuzha on 24 & 25 January 2007.
33. Sunny Kuriakose and Jogy Alex, 'PHOTORADCHEM 2007 – International Conference on Frontiers of Radiation and Photochemistry' organized by School of Chemical Sciences, Mahatma Gandhi University, Kottayam during 8-11 February 2007.
34. Sunny Kuriakose and Cincy George, 'PHOTORADCHEM – 2007, an international conference on Frontiers of Radiation and photo chemistry held at Kottayam during February 8-11-2207, sponsored by SCS, M.G. University, Kottayam.
35. Presented a paper entitled 'Characterization and Thermal Stability studies of Manganese (II) Complexes derived from 2,3 –Dimethyl -4- Formyl (enzhydrazide) -1- Phenyl – 3-Pyrazolin – 5 – one' in the International Conference on Mterials for the Millennium held at Cochin University of Science and Technology during 1-3, March 2007.
36. International Seminar on Children's Literature by International Children's Literature Association of St.Thomas College, Thrissur.
37. Shaiju Augustine and Sunny Kuriakose, 18th Kerala Science Congress, Kannur, 30 January, 2007.
38. Jogy Alex and Sunny Kuriakose, "Photochem", International Conference, M.G. University Kottayam January, 2007.
39. K.K. Jose, Jikcey Issac (2007) Single use Conservative Confidence regions in multivariate controlled calibration. *J. Stat. Planning and Inference*. 134, 4, 1226-1235.
40. K.K. Jose, J. Sreekumar (2007) A Bayesian framework for Statistical inference from gene expression data. *American J. Math and Management Sciences*, 27, 2, 199-212.
41. Alex Thannippara, Benny Kurian (2007) Hypercubic designs and applications. *Statistical Papers*, 48, 503-508.
42. Alex Thannippara, Seemon Thomas (2007). Determination of Optimal Blocks Designs with Pre-assigned variance for Elementary contrasts, *J. of Modern Applied Statistical methods*, 5, 2, 390-394.
43. Sebastian George, K.M. Kurian (2007). Generalized Confidence Intervals for Process Capability Indices. *Quality and Reliability Engineering International* 23, 471-481.
44. K.M. Kurian, Sebastian George (2008). Generalized Confidence Intervals for Process Capability Indices in the One-way Random Model. *Metrika*. 67, 1, 83-92.
45. K.K. Jose, Uma P., J. Sreekumar (2007) A First Order Autoregressive Time Series Model for Microarray gene expression data with asymmetric Laplacian marginals. *Proc. 56th Session of International Statistical Institute*, Lisbon.
46. Lishamol Tomy (2007) Autoregressive Processes with a mixture of Gaussian and non-Gaussian marginals. (This paper prepared under the guidance of Dr.K.K.Jose won the

- prestigious **Jan Tinbergen Award 2007** of the International Statistical Institute, Netherlands)
Proc. of 56th Session of International Statistical Institute, Lisbon.
47. Alex Thannippara, O.C. Joseph (2007) Optimal and Partially Efficiency Balanced Designs. *Int. J. of Statistical Sciences*, 6, 239-258
 48. Seemon Thomas, A.M. Mathai. On a matrix-variate Generalized Type-2 Dirichlet Density, *Advances and Applications in Statistics*, 2007, Vol 8, No.1, 37-56.
 49. K.K. Jose, Ancy Joseph (2007) A Marshall-Olkin Gamma distribution and minification process. *STARS Int. J.* 1,2, 107-117.
 50. K.K. Jose and V. Seethalekshmy (2007) On Min Geometric Semi-Pareto Distribution and Process. *Stochastic Proc. and Appl.* 9,1,55-62.
 52. K.K. Jose, J. Sreekumar (2007) An improved statistical test for differential gene expressions using generalized p-value technique, *STARS Int. J.* 1,1,30-40.
 53. Seemon Thomas, A.M. Mathai, H.J. Haubold (2007) An Entropic Pathway to Multivariate Gaussian Density. arXiv. 0709. 3820v1 [*Cond. Mat.stat-mech.*]
 54. K.K. Jose, Uma P. (2007) On Min-geometric Generalized Pareto Processes and Their Applications in Financial Modelling, *STARS Int. J.* 1,1,18-29
 55. J. Sreekumar, K.K. Jose (2007). An Introduction to Statistical Techniques for Identification of Differentially Expressed Genes in cDNA Microarray Experiments, *STARS Int. J.* 1,2,132-149
 56. Gijo Thomas, A.C. Mathew (2007) Body Mass Index cut-off values for identifying cardiovascular disease risk factors among adult women in India. *South Asian J. of Preventive Cardiology*, 11, 3, 100-114.
 57. K.K. Jose, Lishamol Tomy (2007) Slash Laplace Distributions and Their Applications, *STARS Int. J.* 1,2,97-106
 58. K.K. Jose, J. Sreekumar, Lishamol Tomy (2008) Autoregressive Processes with Normal-Laplace marginals, *Statistics and Prob. Letters (in press)*
 59. K.K. Jose, Lishamol Tomy (2008) Unification of Gaussian and Non-Gaussian Time series modeling. *Applied Mathematical Sciences (in press)*
 60. K.K. Jose, Shanoja R. Naik (2008) On the q-Weibull distribution and its applications, *Communications in Statistics (in press)*
 61. Alex Thannippara, Seemon Thomas (2008) Distribution of lambda criterion for sphericity test and its connection to a generalized Dirichlet model, *Communications in Statistics (in press)*
 62. *Indian Literature* November-December 2007. "Ecocriticism, Ethics and Vedic Thought".
 63. *Journal of Contemporary Thought* No. 25; Summer 2007. "Nation, Ego, and Impasse in *A Passage to India*".
 64. *The Viswa-Bharati Quarterly* Vol. 15 & 16 October 2006-September 2007. Globalism and the Lacanian Ethos of Division".