



Report of the IQAC 2017-18

Internal Quality Assurance Cell
St. Thomas College Palai

NAAC Accredited with 'A' Grade (3rd Cycle, CGPA 3.30) in 2015
College with Potential For Excellence (CPE-UGC)
(Affiliated To Mahatma Gandhi University, Kottayam)

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Internal Quality Assurance Cell (IQAC)

The College established an Internal Quality Assurance Cell in 2004 itself which was reconstituted many times as per NAAC guidelines and the present one consists of the following members:

1. Dr. Sunny Joseph, Principal
2. Rev. Dr. James John, Vice Principal
3. Dr. Sunil C Mathew, IQAC Coordinator
4. Rev. Fr. Mathew Kurian, Bursar
5. Dr. Sunny Kuriakose, Department of Chemistry
6. Dr. T J Abraham, Department of English
7. Dr. Siby James, Department of English
8. Dr. Ison V Vanchipurackal, Department of Physics
9. Sri. Mathew Thomas, Department of Zoology
10. Dr. Babu Jose, Department of Commerce
11. Sri. Jose Joseph, Administrative Assistant
12. Dr. K K Jose, Distinguished Educationalist & Local Representative
13. Sri Joby George, Sub. Div. Engineer, BSNL – Alumni Representative
14. Sri. Jose Mamparambil, Industrialist

Strategies

IQAC evolves mechanisms and procedures for:

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks
- The relevance and quality of academic and research programmes
- Equitable access to and affordability of academic programmes for various sections of society
- Optimization and integration of modern methods of teaching and learning
- The credibility of evaluation procedures
- Ensuring the adequacy, maintenance and functioning of the support structure and services
- Research sharing and networking with other institutions in India and abroad

Functions

Some of the functions of the IQAC are:

- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.
- Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.
- Dissemination of information on various quality parameters of higher education
- Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
- Documentation of the various programmes/activities leading to quality improvement
- Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices.
- Development and maintenance of institutional database through MIS for the purpose of maintaining/enhancing the institutional quality.
- Development of Quality Culture in the institution.
- Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC.

At a Glance

Date of Submission of AQAR 2016-17 to NAAC:	26-10-2017
Dates of Meetings of IQAC:	1. 21-06-2017 2. 17-10-2017 3. 23-01-2018 4. 15-03-2018
Minutes and Action Taken Reports are available in the institutional website.	Link to Minutes of Meetings https://www.stcp.ac.in/images/pdf/iqac/MInutes%20of%20IQAC%20Meetings%202017-18.PDF
	Link to Action Taken Report https://www.stcp.ac.in/images/pdf/iqac/Action%20Taken%20Report%202017-18.PDF
No. of Fulltime Teachers	150
No. of Non-teaching Staff	38
Number of students on rolls	2784
Number of programmes offered	42

Number of sanctioned seats	1137		
Number of students admitted	1054		
Number of full time teachers with Ph. D.	55		
Number of students benefited by scholarships and freeships provided by the Government	1415		
Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies	253		
Quality Initiatives			
Date(s) of Internal Academic Audit	26-08-2017, 21-03-2018		
Date(s) of Internal Administrative Audit	01-07-2017		
Date(s) of External Administrative Audit	23-04-2018		
Date(s) of Orientation Programmes to Teaching staff	22-12-2017		
Date(s) of Orientation Programmes to Non-teaching staff	03-06-2017, 25-11-2017		
Date(s) of Orientation Programmes to Students	02-10-2017		
Number of Seminars organized in Collaboration with Other Institutions/Agencies	9		
Number of Collaborative Research Papers	4		
Faculty participation in conferences and symposia			
	Number of Faculty		
	International level	National level	State level
Attended Seminars/ Workshops	18	50	11
Presented papers	16	15	2
Resource Persons	5	19	8
No. of faculty members involved in curriculum restructuring / syllabus revision/ development as member of Board of Study/Faculty/Curriculum Development workshop			36
Research Projects			
Major Research Projects	3		
Minor Research Projects	3		
Number of research publications			
Peer Reviewed Journals	27		
Non-Peer Reviewed Journals	18		

Conference Proceedings		13			
No. of books published					
With ISBN No.	3	Chapters in Edited Books	4	Without ISBN No.	8
No. of conferences organized by the Institution					
Level	International	National	State	University	College
Number	3	6	5	1	9
Initiatives undertaken towards faculty development					
Faculty/ Staff Development Programmes			Number of faculty benefitted		
Refresher courses			12		
Orientation programmes			17		
Faculty Development Programme			3		
Pass Percentage of Final Year Students					
Number of Students Appeared			869		
Number of Students Passed			694		
Pass Percentage			79.86		

Activities During 2017-18

Merit Day Celebrations

A Merit Day was celebrated on 16 February 2018 to felicitate our teachers and students on their achievements in curricular and extra-curricular fields. It was inaugurated by Prof. (Dr.) Sabu Thomas, Hon'ble Pro-Vice Chancellor, Mahatma Gandhi University, Kottayam. The meeting was presided over by H. E. Mar Jacob Muricken, Auxiliary Bishop of Palai and Manager of the College. Dr. Siby James, Secretary, College Council, introduced the award winners to the audience. 48 University top position holders, 27 JRF/NET qualifiers, 22 Ph.D awardees, 2 NCC cadets (participants of the Republic Day parade), 4 NSS awardees, 27 sportsmen and 23 other major achievers of 2017- 18 were honoured at the function. They were presented with special mementos by the chief guest, Prof. (Dr.) Sabu Thomas. Felicitations were offered by Dr. Saju Joseph, President, Parent-Teacher Association and Sri. Ashin Paul, Chairman, College Union. Dr. Joy George, Principal, welcomed the gathering and Dr. Davis Xavier, Head, Dept. of Malayalam, proposed the vote of thanks. Dr. G. D. Gem Mathew, Member, College Council, co-ordinated the programme.

Prathibhanam - Dr. Siby George IFS

A grand reception was accorded to Dr. Siby George IFS, India's Ambassador to Switzerland and Vatican, and a prominent alumnus of the college, under the auspices of the Department of Politics. H. E. Mar Jacob Muricken, Auxiliary Bishop of Palai and Manager of the College, presided over the meeting. Dr. Siby George IFS delivered a lecture on the topic 'India's Foreign Policy' on the occasion.

The Diamond Jubilee of the M. A. Hindi Programme

The Diamond Jubilee of the M. A. Hindi Programme (1957- 2017) of the College was celebrated under the auspices of the Department of Hindi on 25 November 2017. A prominent alumnus of the Department, Dr. George Kurian, Vice Chairman, National Commission for Minorities, Govt. of India, was the chief guest of the function. A grand alumni meet was also conducted as part of the programme.

Golden Jubilee celebrations of the Department of Economics

The Golden Jubilee celebrations of the Department of Economics were inaugurated by Sri. K. P. Fabian IFS, Former Indian Ambassador, on 30 October 2017, at a meeting presided over by Dr. Joy George, Principal. Sri. Fabian delivered a lecture on the foreign policy of our country on the occasion. Prof. E. S. Joseph, former HoD of Economics, former faculty members and prominent alumni of the Department of Economics were present at the meeting.

Seminars, Conferences, Workshops and Lectures

International Conference on Recent Advances in Statistical Methodology

An International Conference on Recent Advances in Statistical Methodology with Applications in Clinical and Official Statistics was organized by the Department of Statistics in collaboration with the Department of Mathematics and Statistics, University of Maryland, Baltimore County, USA and the Department of Biostatistics, Christian Medical College, Vellore, India during 3-5 January 2018. The sponsors of the conference were the Department of Science and Technology, Government of India; the Ministry of Statistics and Programme

Implementation (MoSPI), Government of India and the Kerala State Council for Science, Technology and Environment, Govt. of Kerala. The two main themes of the conference were clinical statistics and official statistics. The Conference was attended by about 130 delegates, of which more than 20 were from abroad. There were plenary talks, invited talks and contributory presentations.

The Conference was inaugurated by Dr. Barry D. Nussbaum, President of American Statistical Association, at a glittering function in which eminent statisticians Prof. B. K. Sinha (University of Maryland) and Prof. John M. Lachin (George Washington University) addressed the gathering. Dr. Barry D. Nussbaum cited two eye-opening examples when American Statistical Association came up with appropriate statistical methods to deal with two very serious problems faced by the American Government and earned immediate recognition. Dr Thomas Mathew (University of Maryland), Dr. Ionut Bebu (George Washington University), Dr. K.Krishnamoorthy (University of Louisiana), Dr Suchindran C.M. (University of North Carolina) and Dr. Viswanath Iyer (Novartis Healthcare, India) were the key speakers on clinical statistics. Sessions on official statistics were mainly handled by officials from MoSPI. Dr. James Mathew, Deputy Director General, and Dr. Sunitha Bhaskar, Deputy Director from the Ministry of Statistics and Programme Implementation were the prominent speakers on official statistics.

***Exuberanza* - International Seminar on New Trends in Literary Discourse**

The Department of Malayalam organised an International Seminar on New Trends in Literary Discourse titled *Exuberanza* during 1 to 5 February 2018, in collaboration with the Kerala Lalithakala Academy, Thrissur. The seminar was intended to probe into the paradigm shifts in art and literature across the globe. The seminar incorporated scholarly talks and discussions that delved deep into the subtleties of the evolving trends in the literary horizons.

The international seminar was inaugurated by H. E. Mar Joseph Pallikaparampil, Bishop Emeritus of Palai, on 1 February 2018. Noted writer Sri. N. S. Madhavan and Dr. Babu Sebastian, Hon'ble Vice Chancellor, Mahatma Gandhi University, Kottayam were the chief guests at the inaugural function. Invited lectures were delivered by Prof. Dr. Mathijs Lamberigts, Dean of the Faculty of Theology and Religious Studies, K. U. Leuven, Belgium, on the topic 'The Struggle with a Changing World : Augustine's Autobiography'; Fr. Norbert Wessel, Emsdetten, Germany, on the topic 'Germany - the Land of Poets and Thinkers'; Rev. Dr. Thomas Vadakkal, Paurastya Vidyapitham, Vadavathoor, on the topic 'Greco - Roman Literature and Culture in the Corpus Paulinum', Dr. K. K. Sivadas, Kannur University, on the topic 'Posthumanism in Short Story', Dr. R. V. M. Divakaran, University of Calicut, on the topic 'Methods of Film Studies' and Fr. Sebastian Myladiath, Emsdetten, Germany. The plenary lectures were delivered by Prof. Dr. Ekaterini Tsalampouni, Aristotle University of Thessaloniki, Greece, on the topic 'Literature and Culture in the Context of Greece'; Prof. Dr. Idesbald Goodeeris, Katholieke Universiteit Leuven, Belgium, on the topic 'Literature and Culture in the European Context'; Fr. Joseph Karikulam, Pontificio Ateneo Regina Apostolorum, Rome, on the topic 'Indian Culture and History of the 16th Century' and by Fr. Manoj Francis, Katholieke Universiteit Leuven, Belgium, on the topic 'Literature and Ethics'. Paper presentations were conducted by Dr. Prameela Mahesh, Dr. Haskerali E. C., Dr. A. P. Sasidharan, Sri. Rajendran Edathumkara, Sri. Anup Antony, Dr. Sunil Jose, Sr. Ciby Kurian, Dr. Jose K. Manuel, Dr. Deepesh Karimpumkara and Dr. Binu M. Mathew.

Along with the international seminar, a painting biennale titled 'Chithrachaithram' was held during 1-3 February 2018. It was curated by the master artists Sri. Neman Pushparaj, Sri. Ponniam Chandran, Sri. V. R. Santhosh and Sri. C. S. Jayaram. In addition, a cultural evening titled 'Sargasaras' was held on 2 February 2018. Dr. Thomas Scaria,

Assistant Professor, Dept. of Malayalam, was the Chief Co-ordinator of the international seminar.

International Conference on Traditional and Alternative Medicine (ICTAM-2017)

The Department of Biochemistry organised an International Conference on Traditional and Alternative Medicine (ICTAM - 2017) on 18 and 19 September 2017. The theme of the international conference was 'To Traverse the Future of Alternative Medicine'. In the two-day meet of ICTAM- 2017, a variety of special areas were covered including Herbal therapy, Ayurveda, Homoeopathy, Ethno-pharmacology and many more exciting areas. The endeavour was inaugurated by Padma Sri Dr. P.R. Krishnakumar, Chancellor, Avinashalingam University, Coimbatore & Founder of AVP Research Foundation. In the plenary session, Dr. Muhammed Majeed, Founder & MD of Sami Labs Ltd. Bangalore & winner of Ellis Island Medal awarded by US Congress and Daniel Statesman Award 2010 from USA, felicitated and spoke about the scope of nutraceuticals and also about the vision of a research scientist and how a passionate entrepreneur takes on social and commercial expressions. Students, researchers and faculty members from various universities and colleges inside and outside India participated in the conference. Overall there were one keynote speaker, one plenary speaker, 13 invited speakers and 480 participants in the two-day conference.

The keynote speaker was Dr. Samson Mathews Samuel from Weill-Cornell University, Qatar, who delivered a talk on 'Anti-angiogenic effects of metformin in 2-deoxy-glucose treated microvascular endothelial cells: Role of thrombospondin-1'. The plenary speaker was Dr. S.Sasidharan from Universiti Sains, Malaysia, who spoke about 'The green cancer prevention: An opportunity to expand the cost-effective medicinal plant-based therapeutics'. Dr. K. Radhakrishnan, Chief Executive Officer (IC), SMPB, Kerala, India, presented a paper on the topic 'Problems and prospects of traditional medicine with reference to Kerala state, India'. Other invited speakers from various parts of the world were Dr. Roonie Moore (University College, Dublin, Ireland), Dr. Anirban Sukul (Hon'y Physician, Ministry of Public Health, Govt of Thailand), Dr. D. Suresh Kumar (Head of Product Development, Cymbio Pharma Pvt. Ltd., Bangalore), Dr. P. G. Biju (Assistant Professor, Department of Biochemistry, Kerala University), Dr. Cibin T.R. (University of Colorado School of Medicine, USA), Dr. Rajmohan V. (Assistant Professor, Govt. Ayurveda College, Trivandrum), Dr. S. Sandhya (Scientist, Indian Institute of Science, Bangalore), Dr. K. Jagannathan (Vice Principal, Santhigiri Siddha Medical College, Trivandrum), Dr. Vibin M. (South Dakota State University, USA), and Sri. Sree Kumar (Processing Engineer, CDB, Cochin) who talked about various aspects of health related problems and also about role of alternative medicine. Dr. Ratheesh M., Asst. Professor, Department of Biochemistry, was the Co-ordinator of the international conference.

National Science Academies' Lecture Workshop on 'Recent Advances in Chemical Sciences'

A three-day National Science Academies' Lecture Workshop on 'Recent Advances in Chemical Sciences', sponsored by Indian Academy of Sciences, Bangalore; Indian National Science Academy, New Delhi, and the National Academy of Sciences India, Allahabad, was organised by the Department of Chemistry, during 13-15 June 2017. Dr. K. R. Gopidas, Fellow of the Indian Academy of Sciences, Bangalore and Chief Scientist, Chemical Sciences and Technology Division, National Institute for Interdisciplinary Science and Technology (NIIST- CSIR), Thiruvananthapuram, was the Convener of the lecture workshop. Dr. G.D. Gem Mathew, Associate Professor, Department of Chemistry, St.

Thomas College, Pala, was the Co-ordinator.

Prof. (Dr.) Uday Maitra (Dept. of Organic Chemistry, IISc, Bangalore), Prof. (Dr.) R.B. Sunoj (Dept. of Chemistry, IIT, Bombay), Dr. Aninda J. Bhattacharyya (Solid State and Structural Chemistry Unit, IISc, Bangalore), Dr. Subi Jacob George (New Chemistry Unit, JNCASR, Bangalore), Dr. Joshy Joseph (Photosciences & Photonics, NIIST (CSIR), Trivandrum), Dr. Kana M. Sureshan (School of Chemistry, IISER, Thiruvananthapuram) were the resource persons who are nationally reputed professors/scientists in chemistry.

International Seminar on ‘The Portuguese in the India Ocean Regions’

An International Seminar on ‘The Portuguese in the Indian Ocean Regions with Special Reference to the Malabar Coast (1500- 1663)’ was organised by the Department of History on 2 February 2018. The seminar was intended to delve deeper into the dynamics of trade, urbanization, naval battles, social interactions and organization of factories and fortresses on the Malabar coast by the Portuguese. Specialists of international repute in Indo-Portuguese history and maritime history were invited to present research papers and participate in the discussions.

The international seminar was inaugurated by Very Rev. Dr. Joseph Kollampampil, Vicar General, Diocese of Palai and Pro-Manager of the College, at a meeting presided over by Dr. Joy George, Principal of the College. Prof. Dr. K. S. Mathew, Former Professor and HoD of History, Pondicherry Central University, delivered the keynote address. In the sessions that followed, invited lectures were delivered by Dr. Vitor Luis Gaspar Rodrigues on the topic ‘The Fortress of Cranganore (1501-1662)’; by Dr. Tiago Castro on the topic ‘The Services of Joao dela Camara, Master-gunner of the Portuguese State of India (1506-1522)’; by Dr. Alexandra Pelucia on the topic ‘Portuguese Warfare along the Malabar Coast: Onset and Rise of a Maritime Seizure System’; by Dr. Manuel Lobtao on the topic ‘From India to India : Portuguese Shipping in South Asian Waters’; by Dr. Pius Malekandathil on the topic ‘The Portuguese and the Socio-cultural Changes in the Indian Ocean Regions 1500-1663’; by Dr. James John on the topic ‘The Portuguese and the Position of Women in Malabar during 16th Century’ and by Dr. Jose Varandas on the topic ‘The Greek Campaigns in India (321-325 B. C.): The Impacts in the West’. Rev. Dr. James John, Head of the Department of History, was the General Co-ordinator of the international seminar.

National Seminar on Global Sports Industry

The Department of Physical Education organised a UGC-sponsored national seminar titled ‘Changing the Game: An Outlook of Global Sports Industry’ on 16 and 17 March 2018. The aim of the national seminar was to provide a platform to academicians, practitioners, doctoral students and other researchers for exchanging knowledge, experience and innovative ideas on the emerging and diversified roles of sports industry in the growing economy through the presentation of conceptual and empirical research papers as well as studies.

National Seminar on ‘Emerging Trends in Nanocomposites’

A National Seminar on ‘Emerging Trends in Nanocomposites’ was organised by the Department of Chemistry, on 12 and 13 October 2017. There were four lecture sessions, a keynote address, a paper presentation session, and a poster presentation session during this seminar. The resource persons of this seminar were Dr. Kuruvilla Joseph (Dept. of Chemistry, Indian Institute of Space Science and Technology, Thiruvananthapuram), Dr. S. Abraham John (Dept. of Chemistry, Gandhigram Rural Institute and Deemed University, Dindigul, Tamil Nadu), Dr. Jinu Jacob George (Dept. of Polymer Science and Rubber Technology, CUSAT) and Dr. Josmin P. Jose (Dept. of Chemistry, Mar Thoma College,

Thiruvalla). There were 160 participants including teachers, research scholars and students from various institutions who attended the programme. The two-day National Seminar was inaugurated by Dr. Kuruvilla Joseph, Head of Chemistry Department and Dean, Indian Institute of Space Science and Technology, Thiruvananthapuram, at a meeting presided over by H. E. Mar Joseph Muricken, Auxiliary Bishop of Palai and Manager of the College.

Paper and poster presentation sessions were also conducted. Citation certificates and cash awards for the first and second positions for the best paper and poster presentations were presented to the winners. Dr. Sajeev Martin George, Asst. Professor, Department of Chemistry, was the Co-ordinator of the national seminar.

National Seminar on ‘Two Paradigms: Deleuze and Nagarjuna’

A UGC-sponsored National Seminar was organized by the Department of English on the topic ‘Two Paradigms: Deleuze and Nagarjuna’ on 16 and 17 August 2017. Dr. Krishnan Unni P., Dr. T. J. Abraham and Dr. Anup Kumar Dhar premiered the discussions on the subject. Dr. Krishnan Unni from Deshabandhu College, Delhi, in his speech “Aspiring Immanence: Deleuze’s Conundrums and Nagarjuna’s Space of Emptiness” tried to link these two philosophers from the West and the East who are temporally ages apart. Dr. T.J. Abraham from Central University, Thiruvavur, Tamil Nadu, talked about his favourite thinkers. His speech was “Leaving the Text for a World of Becoming: Deleuze and Nagarjuna”. Prof. Anup Kumar Dhar from Ambedkar University, Delhi, handled another session on “Desire as Nirvana: From Anatman to the Anti-Oedipal in a God-less Cosmos”. The philosophical base of these two thinkers was brought into the awareness and several discussions from the part of the audience enriched the conference. There were paper presentations from specialists in the field, in fact, from the school of philosophy rather than from English.

Seminar on Hindi as the Official Language

A one-day seminar on ‘Introduction of Hindi as the Official Language: Problems and Solutions’ was organised by the Department of Hindi on 22 January 2018. The seminar was inaugurated by Dr. Joy George, Principal, at a meeting presided over by Dr. Mathew Thomas, HoD of Hindi. The chief resource person of the seminar was Dr. Jesty Emmanuel, HoD of Hindi, Alphonsa College, Pala.

Spectator 2017 - Media Seminar

A media seminar titled ‘Spectator 2017’ was organised by the Department of Communicative English on 6 December 2017. The seminar was inaugurated by Dr. Joy George, Principal, at a meeting presided over by Prof. V. O. Chummar, Course Co-ordinator, Dept. of Communicative English. The chief resource person of the seminar was Sri. Jose Panachipuram, Senior Editor, Malayala Manorama, who delivered a lecture on the topic ‘Journalism in Today’s World’.

Seminar on GST and Centre - State Relations in India

Dr. P. J. Thomas Centre for Social Sciences Research of the College organised a state-level seminar on ‘GST and Centre - State Relations in India’ on 12 February 2018. Sri. Aneish P. Rajan IRS, Joint Commissioner, GST Central Taxes and Customs, Trivandrum, inaugurated the seminar at a meeting presided over by Dr. Joy George, Principal. Dr. Biju K. C., Asst. Professor, Dept. of Economics, presented a retrospect on the late Dr. P. J. Thomas, Economic Advisor to Government of India (1942-48) and the first Principal of the College (1950-52). Prof. Joseph J. Mattam, HoD of Economics, welcomed the gathering and Prof.

Bobby Simon, Asst. Professor, Dept. of Commerce, proposed the vote of thanks.

In the first academic session that followed, Sri. Aneish P. Rajan IRS delivered the key-note address on the topic 'GST & Centre-State Financial Relations in India'. The second academic session was chaired by Dr. Stany Thomas, Asso. Professor, Dept. of Political Science. There were presentations by students on topics related to GST.

Keli 2017 - Workshop on Kathakali

The Department of Malayalam organised a workshop on *Kathakali* titled 'Keli 2017' on 3 November 2017. The chief resource persons of the workshop were the noted Kathakali artistes Sri. Kudamaloor Muraleekrishnan, Sri. Kalanilayam Muraleedharan Namboothiri and Sri. Meenadom Unnikrishnan. There was also a presentation of the Kathakali 'Poothanamoksham'.

Prof. M. T. Tharian Endowment Lecture

A media seminar titled 'Spectator 2017' was organised by the DepaProf. M. T. Tharian Endowment Lecture was organised by the Department of Politics on 15 March 2018. Dr. Cyriac Thomas, Former Vice Chancellor and Member, National Commission for Minority Educational Institutions, delivered the endowment lecture on the topic 'Cultural Decline in the Contemporary Society'. He also distributed scholarships to meritorious students at the meeting presided over by Dr. Joy George, Principal.

National Workshop on 'High Performance Statistical Computing Using R'

A national workshop on 'High Performance Statistical Computing Using R' was organized by the Department of Statistics during 6-7 January 2018. The workshop was inaugurated by Dr. A. K. Singh, Scientist, Department of Science and Technology (DST), Govt. of India. There were 43 participants from various institutions. Dr. George Ostrouchov (University of Tennessee, USA), Dr. Nagaraj Neerchal (University of Maryland) and Dr. Andrew Raim (Census Bureau, USA) were the resource persons.

Workshop on Official Statistics and Opportunity in Government Sector

A one-day workshop on 'Official Statistics and Opportunity in Government Sector', sponsored by Ministry of Statistics and Program Implementation (MoSPI), Govt. of India, was organised by the Department of Statistics on 16 February 2018. Mr. Saji George I.S.S. and Mr. Vikash Kumar Dubey I.S.S were the resource persons.

Seminars Organised by the Department of Commerce

The following seminars/workshops were organised by the Department of Commerce during the current academic year:

1. Seminar on 'Educational Opportunities Abroad' in association with Royal Educational Group, Kottayam on 8 November 2017.
2. Seminar on 'GST and Orientation for CMA', in association with Academy for Future Professionals (AFP) on 11 January 2018.
3. Workshop on 'Econometrics for Financial Research' on 27 January 2018. Resource Person: Dr. Santhosh Kumar P.K. (School of Management Studies, CUSAT).
4. Seminar on 'Futures and Options' on 18 January 2018. Resource Person: Mr. Antony Joseph V.R. (Regional Head, Geojit Financial Services Ltd.).
5. Seminar on 'Psychological Health – The Need of the Hour' on 7 February 2018. Resource Person: Fr. Mathew Mulangacherryil OFM Cap.
6. Seminar on 'Entrepreneurship Development; Opportunities and Challenges' on 21

February 2018. Resource Person: Mrs. Jolly Joseph (MD, Divine Food Products, Meenachil, Pala).

7. Seminar on 'Mobile Phone Misuse and Psychiatric Disorders' on 23 February 2018. Resource Person: Dr. (Sr.) Prasanthi (Psychiatrist, Carmel Medical Centre, Pala).

Invited Lectures Delivered by Experts

Department of Politics

1. Sri. C. R. Neelakantan, well-known environmental activist, delivered an invited talk on the topic 'The Politics of Environment' on 5 June 2017.
2. Dr. M. S. John, Professor and Head, Dept. of Political Science, Central University of Kerala, Kasaragod, delivered an invited lecture on the topic 'Seventy Years of Indian Democracy: Prospects and Challenges' on 27 July 2018.
3. Sri. Jose C. Mathew, tax consultant, delivered an invited talk on the topic 'GST and its Impact on Common Man' on 21 February 2018.

Department of History

1. Dr. C. C. Joseph, Christ University, Bangalore, delivered an invited talk on the topic 'Developments in Annals Historiography' on 17 October 2017.

Department of Malayalam

1. Dr. Muhammed Basheer (Former Professor, PSMO College, Thirurangadi) delivered an invited lecture on 'Mappilapattu' on 16 January 2018.

Department of Physics

1. Sri. A.V. Sathish, Scientist, Kudankulam Nuclear Power Station, delivered an invited lecture on the topic 'Nuclear Energy for the Future' on 16 January 2018.
2. Prof. N. Shaji, Principal, Government College, Manimalakunnu, delivered an invited lecture on the topic 'Conceptual Problems in Quantum Mechanics' on 23 February 2018.

Department of Biotechnology and Applied Microbiology

1. Dr. Santhosh Kumar K., NIT, Calicut, delivered an invited talk on the topic 'Algal Biome' on 5 December 2017.
2. Dr. Reshma Mohan, Meenakshi Aqua Labs, Bangalore, delivered an invited talk on the topic 'The Role of Media and Other Parameters in Tissue Culture Research'.
3. Dr. Balamurali G. S., Scientist, IISER, Trivandrum, delivered an invited lecture on the topic 'Comparative Visual Ecology of Temperate and Tropical Bees' on 12 March 2018.
4. Dr. Salvy Thomas, Dept. of Botany, St. Berchmans College, Changanacherry, delivered an invited lecture on the topic 'New Environmental Challenges and Preservation of Biodiversity' on 12 March 2018.
5. Dr. Juna Beegum, TBGRI, Trivandrum, delivered an invited lecture on the topic 'Hepatitis C Virus and Natural Compounds. A New Approach' on 12 March 2018.
6. Dr. Anu Cyriac, ARC, Kumarakom, delivered an invited lecture on "Micro satellite markers (SSR) in Cardomom (*Elettaria cardamomum*)"
7. Dr. Leema George, Vellore Institute of Technology, Vellore, delivered an invited talk on the topic 'Inflammation of Pancreas' on 15 May 2018.

Academic and Research Activities by the Faculty

Major/Minor Projects

- The Indian Council of Social Sciences Research (ICSSR) has sanctioned a Minor Research Project during 2017-18 to Dr. Babu Jose (Asst. Professor, Dept. of Commerce) on Study on herding behaviour of Indian Futures Market.
- Dr. Benny P. J. (Asso. Professor, Dept. of Zoology) has been completed UGC Minor Research Project sanctioned for the period 2015-17

Major Research Projects Completed / In Progress

- Dr. Ginson P. Joseph (Dept. of Physics) - Development of frequency doubling thiocyanate complex and its Lewis base adduct crystals for optoelectronic devices funded by Council of Scientific and Industrial Research (CSIR), New Delhi for the period 2016 – 2019
- Dr. Ginson P. Joseph (Dept. of Physics) - Third order nonlinear optical properties and optical switching in CdSe/CdTe polythiophene nanocomposites funded by Science and Engineering Research Board (SERB), Department of Science and Technology, New Delhi for the period 2015 – 2018.
- Dr. K. K. Jose (Dept. of Biostatistics)- A new class of asymmetric distributions and their applications sponsored by Kerala State Council for Science, Technology and Environment, Govt. of Kerala for the period 2015-2018.

Research Papers Published

Department of Commerce

1. Babu Jose, and James Varghese “Investors’ Herding in Indian Stock Market; An Empirical Analysis”, *IOSR Journal of Business and Management (IOSR-JBM)*, Volume 20, Issue 1. January, 2018. PP 76-86.
2. James Varghese, “Role of Microfinance Initiatives in Financial Literacy and Economic Empowerment of Rural Women; A Study with Special Reference to Idukki District of Kerala”, *EPRA International Journal of Economic and Business Review*, Volume 5, Issue 6. June, 2017. PP 70-75.

Department of Statistics

1. Tunny S., Visali P. V. Jeyaseelan L and Sebastian George, Shrikant B. (2018) Decoding and modelling of time series count data using Poisson hidden Markov model and Markov ordinal logistic regression models. *Statistical Methods in Medical Research*.
2. Ajitha Sasi and Sebastian George (2017) Bootstrap lower confidence limits of super structure process capability indices for Escher-Transformed Laplace distribution, *Journal of Stochastic and Quality Control*.
3. Joshni George and Seemon Thomas (2017) Poisson-hidden Markov Model for overdispersed Time Series Count Data, *Research & Reviews: Journal of Statistics*.
4. Sudheesh K. K and Deemat C Mathew (2017) A Family of Non- parametric Tests for Decreasing Mean Time to Failure with Censored Data, *Proceedings of 2nd ISI Regional Statistics Conference*.

Department of History

1. James John, "The Socio-cultural Traits of the Nazranis in the Sixteenth Century Malabar" in *Journal of the Institute for Research in Social Sciences and Humanities*, Vol. 10, Number 1&2, January-December 2015, pp. 45-56.
2. James John, "A Historical Survey of the Local Rulers of Poonjar" in *Mirror*, Vol.7, No. 3A, December 2017, pp. 158 -163.
3. Cyriac Jose and R.K Mohanty, "Antiquity of Christianity in India with Special Reference of South Central Kerala" in *Heritage: Multidisciplinary Studies in Archaeology*, 5(2017):100-139.

Department of Malayalam

1. Prince Mon Jose, Paristhithika Prathibodham: M Kamarudeente 'Chathuppu' enna Kadhayil, *Sahityalokam*, Kerala Sahitya Akademi, Thrissur, Vol. 45, Issue 5-6 (ISSN : 2319-3263).
2. Siju Joseph, Jeevitha Parinamangalude Azhakazhchakal Kassamkadavil, *Malabar Research Manual*, Malabar Christian College, Calicut (ISSN : 2390-947X).

Department of Chemistry

1. Jose L. M. and Kuriakose S; Photochemical Studies and Photoinduced Antimicrobial Properties of Silver Nanoparticle-Encapsulated Biomacromolecule Bovine Serum Albumin Functionalized with 2-[(E)-(3-hydroxynaphthalen-2-yl) diazenyl] Benzoic Acid, *Macromolecular Research*, 2018, Accepted in Press.
2. Philip S. and Kuriakose S.; Synthesis of Superparamagnetic Iron Oxide Nanoparticles Stabilized by Biocompatible Supramolecular β -Cyclodextrin for Biomedical Applications, *Materials Today:Proceedings*, 2018, Accepted in Press.
3. Philip S., Kuriakose S. and Mathew T.; Antifungal Activity of Zero-valent Iron Nanoparticles Synthesized by Green Protocols Using *Camellia sinensis* Extract against Pathogenic *Aspergillus* Species, *Journal of Modern Chemistry and Chemical Technology*, 2017, 8(3):40-45.
4. Philip S. and Kuriakose S.; Antibacterial Activity of Zero-Valent Iron Nanoparticles Synthesized by Green Protocols Using *Murraya koenigii* Extract, *European Journal of Biomedical and Pharmaceutical Sciences*, 2017, 4(12):630-633.

Department of Zoology

1. Benny P. J. & Shelmi Antony, Allelopathic Potential of the Purified Fraction Mn-F10 From *Nyctanthes Arbor-Tristis* L. on Early Seed Growth and Biological Parameters of *Vigna Radiata* (L) Wilczek, *International Journal of Advances in Science Engineering and Technology*; 2018 Volume-3, Issue-5, Page 4-8.
2. Benny P. J. & Aravind Gopal, Neo-simple methodology for the evaluation of potential botanical insect repellents and the rapid comparative study on specific chemical and photo sensitivity of selected insects, *Int.J.of Life Sciences*, 2018; 6(1):87-104.
3. Benny P. J. & Aravind Gopal, Selective comparison of repellent activity with Contact toxicity of certain essential oils against different insect orders, *Int.J.of Life Sciences*, 2018; 6(2):615-625

Department of Physics

1. Thomas, Prince, R. Santhosh Kumar, G . Sreekanth , Bitto John, Ganesh Sanjeev, and Ginson P. Joseph. "Modification of the electrical, optical and thermal properties of L-Arginine Perchlorate single crystals by 5 KGy and 8 KGy electron beam irradiation

for optoelectronic devices.” *Nuclear Instruments and Methods in Physics Research Section B : Beam Interactions with Materials and Atoms* 410 (2017) : 68-77.

2. Mathen, J. J., Thomas, A., Edakkara A. J., Sebastian J., Madhavan J. and Joseph G. P., Fabrication of Al deposited sandwich capacitor structure with CdSe/PVA dielectric thin film by spin coating technique for high power applications: Synthesis and characterizations *J Mater Sci : Mater Electron* (2017) 28, 7544.
3. Mathen J. J., Madhavan, J., Thomas, A., Edakkara, A. J., Sebastian J. and Joseph G. P., Transparent ZnO-PVA binary composite for UV-A photodetector : Optical, electrical and thermal properties followed by laser induced fluorescence, *J Mater Sci : Mater Electron* (2017) 28, 71-90.
4. D. Thomas, Vijayalakshmi. K. A., Mathen, J. J., Augustine S., Ponnamma, D., Sadasivuni, K. K. and Cabibihan, J. J., Microtron irradiation induced tuning of dielectric properties of nano ZnO-natural rubber disks, *Polymer Bulletin*. 2017, 74, 49-89.

Department of Mathematics

1. Vivek S & Sunil C. Mathew, On the Extensions of a Double Fuzzy Topological Space, *Journal of Advanced Studies in Topology* 9:1 (2018), 75-93.

Department of Botany

1. E.J. Josekutty, P. Biju, J. Augustine, 2017. Notes on the extended distribution of two threatened species of *Strobilanthes* Blume (acanthaceae) in Kerala, India. *Journal of Threatened Taxa* 01/2017; 9(5):10236-10239.
2. P. Biju, E.J. Josekutty and A. Jomy 2017. *Eriocaulon albotetrandra*, a new species of Eriocaulaceae from the ponds in the lateritic plateau of Western Ghats, India. *Webbia*: DOI: 10.1080/00837792.2017.1404300
3. P. Biju, E.J. Josekutty and A. Jomy 2017. A new remarkable species of *Dimeria* R. Br. (Poaceae, Panicoideae, andropogoneae) from the lateritic plateau of Northern Kerala, India. *International Journal of Advanced Research (IJAR)* 5(11): 705-711
4. P. Biju, E.J. Josekutty and A. Jomy 2018 *Lagenendra cherupuzhaica* (Araceae), a new species from Kerala, India. *Ann. Bot. Fennici*. 55: 139-143.
5. P. Biju, E.J. Josekutty and A. Jomy 2017. *Aponogeton undulates* Roxb. (Aponogetonaceae) a new addition to the flora of Kerala, India
6. Bince Mani, Sinjumol Thomas, S. John Britto (2018). Two new species of *Impatiens* (Balsaminaceae) from the Western Ghats, India. *Phytotaxa* 334(3): 233-240.
7. E.J. Josekutty, P. Biju, J. Augustine, 2017. *Sonerila raghaviana* Ratheesh et al a new Distributional Record for Kerala, India. *International Journal of Current Advanced Research* 6(12): 7935-36.

Department of Biochemistry

1. Svenia P. Jose, Asha S., Krishnakumar I.M., Ratheesh M., Savitha Santhosh, Sandya S., Girish Kumar B., Nephro-protective effect of a novel formulation of unopened coconut inflorescence sap powder on gentamicin induced renal damage by modulating oxidative stress and inflammatory markers. *Biomedicine & Pharmacotherapy*, 2017; 85: 128–135.
2. Svenia P. Jose, Ratheesh M., Asha S., Krishnakumar I.M., Sandya S. Polyphenolics of Virgin coconut oil inhibits oxidized LDL induced inflammation in human peripheral blood mononuclear cells via modulating TLR/NF- κ B signaling pathway. *European Journal of Integrative Medicine*, 2017; 10: 59-65.
3. Ratheesh M., Sandya S., Pramod C., Premlal S., Asha S., Svenia P. Jose, Girish

Kumar B. Anti-inflammatory and antioxidant effect of Kerabala: a value-added Ayurvedic formulation from virgin coconut oil inhibits pathogenesis in adjuvant-induced arthritis. *Inflammopharmacology*, 2017;25(1):41-53.

4. M. Ratheesh, Jose P. Svenia, S. Asha, S. Sandya, B. Girishkumar and I. M. Krishnakumar. Anti-inflammatory effect of a novel formulation of coconut inflorescence sap against ox-LDL induced inflammatory responses in human peripheral blood mononuclear cells by modulating TLR-NF-kB signaling pathway. *Toxicology Mechanisms and Methods*, 2017; (8): 615-621.
5. Svenia P. Jose, M. Ratheesh, S. Asha, I.M. Krishnakumar, S. Sandya & Kumar B. Girish. Hepato-protective Effect of Clove Bud Polyphenols (*Syzygium aromaticum* L.) (Clovinol) by Modulating Alcohol Induced Oxidative Stress and Inflammation. *Journal of Food Research*, 2018; 7:1.

Department of Biostatistics

1. Savitri Joshi, K. K. Jose (2018) Wrapped Lindley Distribution and Applications; Communications in *Statistics: Theory and Methods*; 47,5, 1013-1021.
2. Jose, K. K., Jeena Joseph (2018). Reliability Test Plan for Gumbel-Uniform Distribution. *Stochastics and Quality Control*. <https://doi.org/10.1515/eqc-2017-0011>
3. Jose, K. K., Albin Paul (2018). Reliability Test Plans for Percentiles Based on the Harris Generalized Linear Exponential Distribution, *Stochastics and Quality Control*. <https://doi.org/10.1515/eqc-2017-0025>.
4. Sophia P. Thomas, K. K. Jose, Lishamol Tomy (2017) Marshall-Olkin Generalized Family of Distributions: A Retrospect, 6, 2, 35-49.
5. Jose, K. K., Paul Albin (2017) Marshall-Olkin Exponential Power Distribution and Applications. *Research & Reviews: Journal of Statistics*. 2017; 6(3):22–33.
6. Jose K. K., Jisha Varghese (2017). Wrapped Fernandez and Steel's Skewed Laplace Distribution and its Applications in Ornithology. *Research & Reviews: Journal of Statistics* ; 6(3): 73–83.
7. Jeena Joseph, Jose K. K. (2018) On a Generalization of Gumbel-Uniform Distribution. *Research & Reviews: Journal of Statistics*; 7, 2 , 21-26.
8. Lishamol Tomy, Jose K.K, Thomas Sophia P. (2018) Applications of Marshall-Olkin Generalized Family of Distributions. *Research & Reviews: Journal of Statistics*; 7(1): 22–37.
9. K. K. Jose (2018) Probability, Possibility and Fuzziness: Towards an Integral Understanding of Reality; Science – Religion Dialogue and Its Contemporary Significance; 149-162. ATC Publishers, Bangalore.
10. K. K. Jose and Shalitha Jacob (2018) Generalized Polya-Aeppli Process and Applications, *Explorations*, 7,1,43-55.
11. K. K. Jose and Jisha Varghese (2018) Circular Skewed Laplace Distribution and its Applications, *Explorations*, 7,1, 56-69.

Papers Presented at International/National Seminars/Conferences/Workshops

Department of Commerce

1. Babu Jose & James Varghese, “A Study on the Application of Markowitz Portfolio Optimization Model on the Selected Companies of Indian Stock Market”, National Seminar on ‘Investment Avenues - Pros and Cons’, Govt. College, Tripunithura, 9 - 10 November 2017.
2. Babu Jose & James Varghese, “Investors’ Herding in Indian Stock Market; An

Empirical Analysis”, India Finance Conference, Indian Institute of Management (IIM) Bangalore, 20 - 22 December 2017.

3. Babu Jose & James Varghese, “Study on Macro Economic Determinants on the Performance of Indian Stock Market”, India Finance Conference, Indian Institute of Management (IIM) Bangalore, 20 - 22 December 2017.
4. George J. Kakkuzhyil, “Possibility of International Portfolio Diversification: A Study among Selected Asian Equity Markets”, India Finance Conference, IIM Bangalore, December 20-22, 2017
5. George J. Kakkuzhyil, “Study of the Level of Information about Sustainable Development among Students at Higher Educational Institutions” International Conference on Sustainability and Business (SUSBUS, 2018) IIM Calcutta, January 13-14, 2018.

Department of Malayalam

1. Thomas Scaria, on ‘Dramatic Monologues in Asan’s Poetry’ in the National Seminar held at Government Brennan College, Thalasserry.
2. Prof. Sojan Pullattu, ‘Popular Elements in Female Short Stories’ in the UGC-sponsored National Seminar Organised by T. M. Jacob Memorial Government College, Manimalakunnu.
3. Prof. Siju Joseph, ‘Aadhunikathayude Mukhamozhikal Rajalakshmiyude Novelukalil’ in the National Seminar organised by the Department of Malayalam, Madurai Kamaraj University.

Department of History

1. James John, “Status of the Nazrani Women and the Portuguese during the Sixteenth Century Malabar” in the International Seminar on ‘the St. Thomas Christians through the Ages: a Historiographical Approach’ held at Mannanam from 30 January to 1 February 2018.
2. James John, “Portuguese and the Position of Women in Malabar during 16th Century” in the International Seminar on ‘the Portuguese in the Indian Ocean Regions with Special Reference to the Malabar Coast (1500-1663)’ held at St. Thomas College, Pala on 2 February 2018.
3. Cyriac Jose, “Cultural Heritage of Kerala with Special Reference to Archaeological Sources” in the National Seminar on ‘Cultural Heritage of Kerala’ held at K.E College, Mannanam on 20 March 2018.
4. Manesh Varghese John, ICSSR sponsored National Seminar on ‘Miscegenation and Anthropophobia in Idukki District; a Historic Discourse’ held at Newman College, Thodupuzha on 16 and 17 January 2018.

Department of Economics

1. Prof. Joben K. Antony, “Sustainable agricultural development and organic farming in Wayanad district”, International conference held at Kochi, University of Wisconsin, Parkside. USA; Ostfalia University, Germany and M.G University, Kottayam.
2. Prof. Joben K Antony, “Sustainable agriculture through organic farming : A study of Wayanad district of Kerala”, Multi-disciplinary International Conference on ‘Green Economy and Environmental Sustainability’, Dept of Economics, Al Ameen College Edathala, Aluva on January 18 & 19, 2018.
3. Prof. Roberse Thomas, “Behavioural aspects of demonetization”, National Seminar

conducted by Government College, Nattakam.

Department of Physics

1. Ginson P. Joseph, Radhakrishna Prabhu, “Fibre Optic Sensor to Detect Heavy Metal Pollutants in Water Environments”, Kaushalkumar Bhavsar, Emma Hourston, OCEANS '17, Aberdeen, Scotland, 19-22 June 2017.
2. K. Bhavsar, Ginson P. Joseph, R. Prabhu, “ Sensitivity analysis of graphene coated SPR sensor for glucose concentration monitoring”, Interdisciplinary Surface Science Conference (ISSC - 21), Manchester, United Kingdom, 10 -13 April 2017.
3. Prince Thomas, S. D. Dhole and Ginson P. Joseph, “Effect of Electron Beam (EB) Irradiation and Manganese Chloride (MnCl₂) doping on the optical properties and electronic polarizability of L-Arginine Maleate Dihydrate (LAMD) single crystals: A comparison study”, 22nd National Seminar on Crystal Growth and Applications (XXII NSCGA 2018), Sacred Heart College, Tirupattur, Vellore, Tamil Nadu.

Department of Chemistry

1. Philip S. and Kuriakose S.; “Synthesis of Superparamagnetic Iron Oxide Nanoparticles Stabilized by Biocompatible Supramolecular β -Cyclodextrin for Biomedical Applications”, Proceedings of the International Multi-Conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2K18), Mangalam College of Engineering, Ettumanoor, Kottayam, 26- 27 April 2018.
2. Philip S. and Kuriakose S.; “ Synthesis of Superparamagnetic Iron Oxide Nanoparticles Stabilized by Biocompatible Macromolecular Starch for Biomedical Applications”, Proceedings of the International Conference on Advanced Nanostructures (ICAN-2018), Catholicate College, Pathanamthitta, 12-14 March 2018.
3. Philip S. and Kuriakose S.; “ Emergence of α -Fe₂O₃ Nanoparticle- Encapsulated β -Cyclodextrin Aggregates as Potential Antibacterial Agents against *Bacillus subtilis* and *Escherichia coli* ”, Proceedings of the National Conference on Towards Rational Use of Antibiotics; Problems, Prospects and Future Implications, Marthoma College, Thiruvalla, 15-16 February 2018.
4. Jose L. M. and Kuriakose S.; “Synthesis, Characterization and Photoinduced Antifungal Properties of Silver Nanoparticles Encapsulated in Bovine Serum Albumin Functionalized with 2-[(E)-(3-hydroxynaphthalen-2-yl)diazenyl] Benzoic Acid”, Proceedings of the 30th Kerala Science Congress (Focal Theme: Viruses and Infectious Diseases), Govt. Brennen College, Thalassery, 28-30 January 2018.
5. Jose L. M. and Kuriakose S.; “ Studies on the Antimicrobial Properties of Silver Nanoparticles Stabilized by the Bio-macromolecule Bovine Serum Albumin”, Proceedings of the UGC Sponsored National Seminar on Bioprospecting; A Quest for Natural Solutions, CMS College, Kottayam, 05-06 December 2017.
6. Philip S. and Kuriakose S., “ Studies on Antibacterial Activity of α -Cyclodextrin Stabilised α -Fe₂O₃ (Hematite) Nanoparticles”, Proceedings of the UGC Sponsored National Seminar on Bioprospecting; A Quest for Natural Solutions, CMS College, Kottayam, 05-06 December 2017.
7. Jose L. M. and Kuriakose S., “ Development of Metal Nanoparticle Encapsulated Bovine Serum Albumin for Antimicrobial Applications”, Proceedings of the KSCSTE Sponsored National Seminar on Recent Advances in Supramolecular and

Nanochemistry, Assumption College, Changanacherry, 16-17 November 2017.

8. Philip S. and Kuriakose S., "Synthesis, Characterization and Antifungal Activity of α -Fe₂O₃ Nanoparticle- Encapsulated β -Cyclodextrin", Proceedings of the KSCSTE Sponsored National Seminar on Recent Advances in Supramolecular and Nanochemistry, Assumption College, Changanacherry, 16-17 November 2017.
9. Jose L. M. and Kuriakose S., "Synthesis, Characterization and Antimicrobial Studies of Bovine Serum Albumin Stabilised Silver Nanoparticles", Proceedings of the KSCSTE Sponsored National Seminar on Emerging Trends in Nanocomposites, St.Thomas College, Pala, 12-13 October 2017.
10. Varghese S. and Kuriakose S., "Antifungal Studies on Carbon Nanoparticles- α -Cyclodextrin aggregates", Proceedings of the KSCSTE Sponsored National Seminar on Emerging Trends in Nanocomposites, St.Thomas College, Pala, 12-13 October 2017.
11. Philip S. and Kuriakose S., "Synthesis, Characterization and Antibacterial Activity of Fe₂O₃ Nanoparticle- Encapsulated α -Cyclodextrin", Proceedings of the KSCSTE Sponsored National Seminar on Emerging Trends in Nanocomposites, St.Thomas College, Pala, 12-13 October 2017.
12. Philip S. and Kuriakose S., "Synthesis, Characterization and Antibacterial Activity of Zero-valent Iron Nanoparticles Synthesized by Green Protocols Using *Murraya koenigii* Extract," Proceedings of the UGC Sponsored National Seminar on Green Chemistry for Environmental Sustainability, Bharata Mata College, Thrikkakara, 07-08 February 2017.

Department of English

1. Joby Mathew presented a paper on 'Wellness Turn and the Marketing of the Green Semiosis at the Eco Critical Juncture' at the UGC - sponsored National Seminar on 'Capitalist Politics and Ecology in World Literature' held at Sree Sankara University of Sanskrit, Regional Centre - Thiruvananthapuram during 4-6 April 2018.

Department of Biochemistry

1. Ratheesh M, "Neera, A Nutritious Health Drink From Coconut Inflorescence Sap Offered Treatment/Prevention Potential in Chronic Alcohol Induced Hepatic Pathogenesis and Liver Cell Damage" presented in 7th International Conference on Nutritional & Environmental Medicine (NEM-CON 2017) conducted by Soukhya Training and Research Institution (STRI) at Cochin.
2. Ratheesh M, "Neera inhibits liver toxicity by modulating inflammatory markers and oxidative stress". presented in International Conference on Traditional and Alternative Medicine (ICTAM-2017) held at St. Thomas College Pala, on 18 and 19 September 2017.
3. Ratheesh M, "Anti-arthritis activity of polyphenolics from virgin coconut oil". presented in International Conference on Science, Engineering, Technology & Management (ICSETM – 2017) held at KE College, Mannanam.
4. Ratheesh M, "Effect of health drink 'neera' on gentamicin induced renal damage by modulating oxidative stress and inflammatory markers" presented in an International Conference on Frontiers in Bioscience at SNGIST, Kochi, on 15 & 16 November 2017.

Department of Botany

1. Jomy Augustine, “The upstream vegetation of river Pampa”, at Pampa symposium conducted by MG University on 19 May 2017 at Kottayam.
2. Jomy Augustine, “Endemism of Western Ghats and the threat of Endemic Plants” in the Training on Plant Taxonomy at IFGTB, Coimbatore, Tamil Nadu on 07 February 2018.
3. Jomy Augustine, “Foliar characters of Strobilanthes” in International Conference of IAAT, at Delhi University, during 9-11 November 2017.
4. Bince Mani, International Conference of IAAT, at Delhi University, during 9-11 November 2017.

Seminar/Conference/Workshop participation

Department of History

1. Dr. James John participated in the Annual Workshop on the *Changing Parameters of Quality Assessment in Higher Education* held at TKM College for Arts and Science, Kollam on 25 November 2017.
2. Dr. Cyriac Jose participated in the International Workshop on *Remote Sensing and Geographical Information System in Archaeology* conducted by the Department of Archaeology, University of Kerala, Trivandrum from 1 to 7 December 2017.
3. Dr. James John and Prof. Manesh Varghese John participated in the regional seminar on *The Last Sixty Years of Kerala: History and Culture* organized by the Postgraduate Department of History, Henry Baker College, Melukavu on 20 November 2017.

Department of Economics

1. Prof. Roberse Thomas has attended a 10 day workshop on *Indian Economy and Economic Survey* organized by the Ministry of Finance, Govt. of India at IIT, Delhi during June 9 – 20, 2017.

Department of Biochemistry

1. Dr. Ratheesh M. participated in *Amrita Samyogam-2017, International Conference on Integrative Ayurveda and Modern Medicine* held at Amrita Institute of Medical Science, Kochi, during August 2017.

Department of Chemistry

1. Prof. Joy Alex, Dr. G. D. Gem Mathew and Prof. Jithin Prakash P. A. attended the *FCBS Workshop for College Chemistry Students and Teachers* organised by the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore and Foundation for Capacity Building in Science (FCBS), Trivandrum at Thiruvananthapuram during 26-28 October 2017.

Department of Mathematics

1. Prof. Thankachan Augustine, Dr. Bobby P. Mathew & Prof. Tinjumol Mathew have attended International Seminar organized by Department of Mathematics, Deva Matha College, Kuravilangad on 18 November 2017.
2. Dr. Sunil C. Mathew has attended the following workshops / seminars:
 - (i) Advanced Training School on *Functional Analysis* at Indian Institute of Technology, Tirupati from 11 to 23 December 2017.
 - (ii) Annual Workshop for Principals and IQAC Coordinators on Changing Parameters of Quality Assessment in Higher Education held at TKM College of Arts and Science, Kollam on 25 November 2017.
 - (iii) One Day Seminar on *Differential Geometry* held at Ettumanoorappan

- College, Choorakulangara, Ettumanoor on 26 October 2017.
- (iv) National Seminar on *Recent Developments in Fuzzy Set Theory* held at Christ College, Irinjalakuda from 16 to 17 February 2017.
- (v) One-day seminar on Mathematics (Topic : *Real Analysis*) at Ettumanoorappan College, Choorakulangara, Ettumanoor on 6 April 2018.

Department of Zoology

1. Prof. Mathew Thomas, National Seminar on *Recent Trends in Environmental Monitoring and Conservation* at Alphonsa College, Pala on 19 & 20 June 2018.
2. Dr. Jayesh Antony, DST sponsored National Seminar on *New Horizons in Cancer Treatment and Prevention: From Bench to Bedside* SN College, Kollam; 16 & 17 March 2018.
3. Dr. Jayesh Antony, International Conference on *Neutraceuticals and Chronic Diseases*, Goa, 1-3 September 2017.

Teachers who delivered Invited Talk/ Served as Resource Person

Department of Mathematics

1. Dr. Sunil C. Mathew has delivered the following invited talks :
 - (i) “Compactness and Completeness - A Metric Space Analysis”, at St. George’s College, Aruvithura on 8 November 2017.
 - (ii) “On Fuzzy Topological Spaces” in the National Seminar on Recent Developments in Fuzzy Set Theory, at Christ College, Irinjalakuda on 17 February 2017.
 - (iii) “Culture Excitement and Relevance of Mathematics” in the National Seminar on A Mathematical Journey From Euclid to Wiles, at Govt. College Nattakam on 31, January 2017.
 - (iv) “NAAC’s New Guidelines for Assessment and Accreditation” at Alphonsa College, Pala on 15 January 2018.
 - (v) “Functions of Bounded Variation” at Ettumanoorappan College, Ettumanoor on 06 April 2018.
 - (vi) “NAAC’s New Guidelines for Assessment and Accreditation” in connection with the teacher training programme at K. E. College, Mannanam on 19 August 2017.
2. Prof. Tommy Thomas has delivered the following invited talks:
 - (i) “Applications of Number Theory” at St. George College, Aruvithura on 25 July 2017.
 - (ii) Invited lecture at B. K. College, Amalagiri on 8 December 2017.

Department of Zoology

1. Dr. Jayesh Antony, delivered an invited talk on ‘Drug Discovery in Cancer’ in connection with the programme “PRAGMA” in Alphonsa College, Pala on 01 March 2018.

Department of Physics

1. Dr. Ison V. Vanchipurackal has delivered the following invited talks :
 - (i) Science Day Talk on “Materials for Solar Energy Harvesting” at National Institute of Technology (NIT) Calicut on 23 February 2018.
 - (ii) Science Day Talk on “Science and Technology for Sustainable Development” at M.A. College, Ramapuram, on 28 February 2018.
 - (iii) Invited talk on “LED Bulbs” at Nirmala College, Muvattupuzha on 13 September 2017.
 - (iv) Invited talk on “Non-linear interactions in materials” in the “Golden Jubilee Researchers Conference” on Non linear Optical Materials and Devices at Cochin College, Cochin on 20 February 2018

- (v) Invited talk on “Electromagnetic Waves” at St. Xavier’s College, Vaikom on 20 December 2017.

Department of Botany

1. Dr. Jomy Augustine has delivered the following invited talks :
 - (i) “The upstream vegetation of river Pampa”, at Pampa symposium conducted by MG University on 19 May 2017 at Kottayam.
 - (ii) “The genus *Strobilanthes* in the Western Ghats, India” at St. Thomas College, Thrissur on 21 June 2017.
 - (iii) “Plant endemics of Western Ghats”, at State level seminar supported by KSCSTE, at SD College, Kanjirappally on 17 June 2017.
 - (iv) “Endemic habitats of Western ‘Ghats’”, at State level seminar supported by KSCSTE, at Alphonsa College, Pala on 17 July 2017.
 - (v) “ Biodiversity potentials of Western Ghats”, at National Seminar funded by KSCSTE, at Newman College, Thodupuzha. 19 June 2017.
 - (vi) “Endemic habitats of Western Ghats”, at National Seminar on ‘Impacts of Climate Changes on Natural Resources’, held at BJM Government College, Chavara, Kollam on 22 November 2017.
 - (vii) “Flowering Plant Diversity of Western Ghats and their Conservation”, at National Seminar on ‘Basics in Angiosperm Taxonomy’, at MES Asmabi College, Kodungallur on 23 November 2017.
 - (viii) “Endemic habitats of Western Ghats”, at National Seminar on ‘Plant Taxonomy- a Tool for Biodiversity Conservation’, held at University College, Thiruvananthapuram on 15 December 2017.
 - (ix) “Conservation of Rare Medicinal Plants” , at Workshop on ‘Medicinal Plant Taxonomy Cultivation and Conservation’, held at Department of Botany, Kerala University on 12 December 2017.
 - (x) “Conservation of Biodiversity-Whose responsibility”, at National Seminar on ‘Emerging Trends and Challenges in Biodiversity Conservation’ at St. Joseph’s College, Devagiri, Kozhikode, on 2 March 2018.
 - (xi) “Conservation of Nature - Whose responsibility”, at National Seminar on ‘Biodiversity of Western Ghats’ at Guruvayoorappan College, Kozhikkode, on 2 February 2018.
 - (xii) “Endemism of Western Ghats and the Threat of Endemic Plants” in the Training on Plant Taxonomy at IFGTB, Coimbatore, Tamil Nadu on 07 February 2018.
 - (xiii) “Endemic habitats of Western ‘Ghats’”, at Statelevel Seminar at Alphonsa College, Pala on 8 February 2018.

Department of Biostatistics

1. Dr. K. K. Jose has delivered the following invited talks :
 - i. ‘T-X family of Distributions and Their Applications’ in the National Seminar on Statistical Modeling and Data Analytics held at Madras University, Chennai during 19-20 March 2018.
 - ii. ‘Non-Gaussian Time Series Models for Agricultural Crop Prices’ in the Indian Science Congress (105 ISC 2018) held at Manipur University, Imphal during 16-20 March 2018.
 - iii. ‘Transformer-Transformed Distributions and Applications in Acceptance Sampling’ in the National Seminar on Recent Trends in Statistics (NSRTS) held at Calicut University during 13-15 March 2018.
 - iv. ‘Big Data Analytics, Data Science and Biostatistics : Emerging Opportunities

for Statisticians' in the Annual Conference of KSA held at St. Thomas College, Thrissur during 15-17 February 2018.

- v. 'Bayesian Computing in the Discovery of Gravitational Waves' in the International Conference TESIS 2018 and Annual Conference of ISPS held at Bharathiar University, Coimbatore during 5-7 January 2018.
- vi. 'Biostatistics Teaching in India: Challenges and Opportunities' in the International Conference on Statistical Applications in Official Statistics and Clinical Data Analysis (ICSA2018) held at Pala during 3-5 January 2018.
- vii. 'Generalized Count Models with Mittag-Leffler and Gumbel Inter-arrival Times' in the International Conference on Statistics in the Twenty first Century (ICSTC) held at University of Kerala during 17-19 December 2017.
- viii. 'Descriptive Statistics for Medical Practitioners' in the 5th Annual Conference 'Bioradiance - Demystifying Biostatistics' held at Pushpagiri Institute of Medical Sciences and Research, Thiruvalla on 11 November 2017.
- ix. 'Data Cleaning and Graphical Analysis of Multivariate Data' at St. Teresa's College, Ernakulam on 21 September 2017.
- x. 'Data Science and Statistical Computing' at the UGC- sponsored National Seminar on Mathematical Applications and Statistical Computing held at Deva Matha College, Kuravilangad during 16-17 August 2017.
- xi. 'Stochastic Modeling' in the International Workshop on Stochastic Processes held at B.K.College, Amalagiri, Kottayam on 26 June 2017.
- xii. 'Gumbel-Pareto model and its Applications in Industrial Reliability Plans' in the National Seminar on Statistical Theory and Applications (NSSTA 2017) held at University of Kerala during 27-29 June 2017.

Department of Statistics

1. Dr. Seemon Thomas has delivered an invited talk on 'Administrative Statistcs' at the District Office of the Bureau of Economics and Statistics, Kottayam on 29 June 2017.
2. Dr. Sebastian George delivered a series of lectures at the workshop on 'Diagnostic and screening test evaluation - Imperfect gold standard, meta analyses and application of Latent class models' held at CMC Vellore, on 10 October 2017.
3. Dr. Sebastian George was an instructor for the National Workshop on 'Bayesian computation with R' at Kannur University, on 15 March 2018.

Department of English

1. Dr. Siby James has delivered the following invited talks:
 - i. 'Lecture of the Diplopia of Knowledge, Theory Here and Theory There' at St. Joseph's College for Women, Alappuzha on 5 July 2017.
 - ii. 'Postmodern Trends in Literature' at Bishop Moore College, Mavelikkara on 10 October 2017.

Department of Commerce

1. Dr. Tejil Thomas served as the resource person for the following seminars & workshops:
 - (i) Seminar on Research Methodology for Social Science organised by Department of Commerce, Alphonsa College, Pala, on 17 June 2017.
 - (ii) Workshop on Research Methodology and Primary Data Analysis organised by Department of Commerce, MES College, Valancherry, Malappuram on 5 October 2017.

- (iii) National Workshop on Research Methodology in Social Sciences organised by the Department of Commerce, T.M. Jacob Memorial Govt. College, Manimalakkunnu during 26-28 October 2017.
- (iv) Workshop on Data Analysis in Social Science Research organised by BIMS, St. Berchmans College, Changanasserry on 9 December 2017.
- (v) Workshop on Primary Data Analysis using Statistical Packages organised by the School of Management, Mount Zion College of Engineering, Pathanamthitta on 20 December 2017.
- (vi) Workshop on Multivariate Analysis of Data in Social Science Research by BIMS, St. Berchmans College, Changanasserry on 5 January 2018.
- (vii) Workshop on Data Analysis organised by Department of Commerce, Newman College Thodupuzha on 8 February 2018.

Board of studies Membership

Name of teacher	Name of the body in which full time teacher participated
Dr. P J Benny	Chairman, UG Board of Studies in Zoology, Mahatma Gandhi University, Kottayam
Dr. K K Jose	Expert for curriculum development of M.Sc. Biostatistics, Mahatma Gandhi University, Kottayam
Sri. Tommy Thomas	Member, Academic Council, Assumption College, Changanassery(Autonomous)
Dr. Shajimon K Mathews	Member, Academic Council, Mahatma Gandhi University, Kottayam
Sri. Jogy Alex	Member, Academic Council, Rajagiri College of Social Sciences(Autonomous)
Sri. Jogy Alex	Member, Academic Council, Sacred Heart College, Thevara(Autonomous)
Dr. K K Jose	Member, Board of Studies in Actuarial Science (P.G), MA Autonomous College Kothamangalam
Dr. K K Jose	Member, Board of Studies in Biostatistics, CMS College Kottayam
Dr. Sunil C Mathew	Member, Board of studies in Mathematics, Assumption College, Changanassery(Autonomous)
Sunil C Mathew	Member, Board of studies in Statistics, CMS College Kottayam (Autonomous)
Sri. P J Johnson	Member, Faculty of Language and Literature, Mahatma Gandhi University, Kottayam
Dr. Siby James	Member, Faculty of Language and Literature, Mahatma Gandhi University, Kottayam
Dr. Sunny Kuriakose	Member, Faculty of Science, Mahatma Gandhi University, Kottayam
Sri. Manuel Joseph	Member, Faculty of Sciences, Mahatma Gandhi University, Kottayam
Dr. Raj Mathew	Member, Faculty of Sciences, Mahatma Gandhi University, Kottayam
Dr. K M Kurian	Member, Faculty of Sciences, Mahatma Gandhi University, Kottayam

Sri. Libin Kuriakose	Member, Faculty of Technology and Applied Sciences, Mahatma Gandhi University, Kottayam
Sri. Paul V Karanthanam	Member, PG Board of Studies in Botany, Mahatma Gandhi University, Kottayam
Dr. Sunny Kuriakose	Member, PG Board of Studies in Chemistry, Mahatma Gandhi University, Kottayam
Sri. Joseph J Mattam	Member, PG Board of Studies in Economics, Mahatma Gandhi University, Kottayam
Sri. Alan Zacharia	Member, PG Board of Studies in Economics, Mahatma Gandhi University, Kottayam
Dr. Siby James	Member, PG Board of Studies in English, Mahatma Gandhi University, Kottayam
Sri. Tommy Thomas	Member, PG Board of Studies in Mathematics, Mahatma Gandhi University, Kottayam
Dr. George Varghese	Member, PG Board of Studies in Political Science, Mahatma Gandhi University, Kottayam
Kum. Tinchu P James	Member, PG Board of Studies in Political Science, Mahatma Gandhi University, Kottayam
Dr. Shajimon K Mathews	Member, PG Board of Studies in Political Science, Mahatma Gandhi University, Kottayam
Fr. Mathew Kurian	Member, PG Board of Studies in Political Science, Mahatma Gandhi University, Kottayam
Dr. BennyKurian	Member, PG Board of Studies in Statistics, Mahatma Gandhi University
Sri. Mathew Thomas	Member, UG Board of Studies in Aquaculture, Mahatma Gandhi University, Kottayam
Sri. Joji Jacob	Member, UG Board of Studies in Economics, Mahatma Gandhi University, Kottayam
Dr. K C Biju	Member, UG Board of Studies in Economics, Mahatma Gandhi University, Kottayam
Smt. Soumya Jose	Member, UG Board of Studies in Malayalam, Mahatma Gandhi University, Kottayam
Dr. K M Kurian	Member, UG Board of Studies in Mathematics, Assumption College, Changanasserry (Autonomous)
Dr. V K Jose	Member, UG Board of Studies in Mathematics, Mahatma Gandhi University, Kottayam
Sri. Libin Kuriakose	Member, UG Board of Studies in Physics, Mahatma Gandhi University, Kottayam
Dr. Seemon Thomas	Member, UG Board of Studies in Statistics, St. Theresa's College Ernakulam (Autonomous)
Dr. Sunny Kuriakose	Member, UG Syllabus Revision Workshop in Chemistry, Mahatma Gandhi University, Kottayam
Dr. Thomas V Mathew	Member, UG Syllabus Revision Workshop in Chemistry, Mahatma Gandhi University, Kottayam
Mr. Amal Jose Baby	Member, UG Syllabus Revision Workshop in Chemistry, Mahatma Gandhi University, Kottayam
Mr. Jithin Prakash P A	Member, UG Syllabus Revision Workshop in Chemistry, Mahatma Gandhi University, Kottayam

Mr. Manjesh Mathew	Member, UG Syllabus Revision Workshop in Chemistry, Mahatma Gandhi University, Kottayam
Dr. Shajimon K Mathews	Member-Faculty of Social Sciences – Mahatma Gandhi University

Ph. D. Awarded to Faculty

- Dr. Cyriac Jose (Asst. Professor, Department of History) was awarded Ph. D. degree in Archaeology by Deccan College Postgraduate and Research Institute, Pune, for his thesis entitled ‘Cultural Landscape and Architecture of Medieval Churches of Kerala’.
- Dr. Bobby P. Mathew (Asst. Professor, Department of Mathematics) was awarded Ph. D. degree in Mathematics by the National Institute of Technology (NIT), Calicut, for his thesis entitled ‘Rough Sets and Topology of the Rough Universe’.
- Dr. Sini Thomas K. (Lecturer, Department of Vocational Education) was awarded Ph. D. degree in Agriculture by the Indian Agricultural Research Institute (IARI), New Delhi, for her thesis entitled ‘Role of putrescine in growth, development and abiotic stress tolerance of rice’.

Awards

- Prof. Prince Mon Jose (Asst. Professor, Department of Malayalam) was awarded with a Certificate of Appreciation for his three years of meritorious service as NSS Programme Officer of the College, by the Mahatma Gandhi University, Kottayam.

Pass Percentage of Students

Program Name	Program Code	Number of students appeared in the final year examination	Number of students passed in the final year examination
BA English Language & Literature	BAEN	28	24
BA Malayalam Language & Literature	BAMA	35	15
BSc Mathematics	BSMA	31	31
BSc Physics	BSPH	42	38
BSc Chemistry	BSCH	35	30
BSc Botany	BSBO	36	22
BSc Zoology	BSZO	26	18
BSc Recreation, Leisure & Sports Studies	BSRE	21	17
BA Economics	BAEC	50	44
BA History (Archaeology and Museology)	BAHI	17	13
BA Political Science	BAPS	43	27
BA English Literature and Communication Studies	BACE	26	21
BCA	BCAC	38	26

BCom (Finance and Taxation)	BCFT	62	57
BCom (Computer Applications)	BCCA	41	40
BVoc Food Processing Technology	BVFP	41	25
BVoc Sustainable Agriculture	BVSA	47	26
MA English	MAEN	23	19
MA Malayalam	MAMA	15	10
MA Hindi	MAHN	9	9
MSc Mathematics	MSMA	15	15
MSc Statistics	MSST	14	11
MSc Physics	MSPH	18	16
MSc Chemistry	MSCH	20	19
MSc Botany	MSBO	12	12
MSc Biostatistics	MSBS	15	15
MSc Applied Microbiology	MSAM	24	24
MSc Biotechnology	MSBT	8	6
MA Economics	MAEC	24	20
MA History	MAHI	13	13
MA Political Science	MAPS	23	19
MCom	MCOM	17	12
Total		869	694

Socio - Cultural Activities

- ComArena* is an epic All India Annual Intercollegiate Commerce and Management Festival conducted by the Department of Commerce of the College. The 11th edition (*ComArena 11.0*) was conducted on all - India basis, in an exciting style with 11 creative events and with a participation of 700 students from different states of India, on 17 & 19 August 2017 and with the title sponsorship by Life Insurance Corporation of India (LIC). The programme was inaugurated by Sri. Uthup Joseph, Senior Divisional Manager, LIC Kottayam. The overall championship was won by the team from CET, Trivandrum.
- Baul Fiesta was organized on 11 January 2018. The programme, organized under the auspices of the English Association, was the first of its kind in the College. Teachers and students from various departments and the general public attended the performance. All were greatly entertained by the performance of the baul singers, minstrels from Bengal, of whom many in the audience had some knowledge from media sources.
- Vartika 2K17* was conducted on 9 August 2017. The fest was inaugurated by the noted businessman and philanthropist Dr. Mathew M. Malayil in the auspicious presence of Dr. Joy George (Principal). More than 700 students from various schools and colleges across Kerala participated in this grand commerce gala. The main events of the fest were Best Management Team, Business Quiz, General Quiz, Treasure Hunt, Groupie Photography and 3's Football. The momentous event *Vartika 2K17* was organised with a view to bring together students of commerce and management from various institutions in Kerala for a feast for their minds, eyes and ears.

- *Eco-Fiesta 2017*, the All Kerala Intercollegiate Economics Festival, was organised by the Department of Economics of the College on 28 February 2018. The Fiesta was inaugurated by Ms. Anjali Nair, film artiste, at a meeting presided over by Dr. Joy George, Principal. Quiz, debate and poster designing were the major competitions of the Fiesta. Attractive cash prizes were awarded to the winners of the competitions.

- *Atmos 2K18* was an All Kerala Infotainment Fest for college and higher secondary students organised by the Department of Chemistry on 19 January 2018. The events conducted were *Scientia* (Intercollegiate Science Quiz), *Ricerca* (Intercollegiate Paper Presentation), *Dialectic* (Intercollegiate Debate), *Scribble* (Intercollegiate Poster Design), *Nerdicon* (Intercollegiate Treasure Hunt), *Guerra* (Intercollegiate Robo Fight), *Socceroos* (Intercollegiate Threes Football), *Ceist* (Interschool General Quiz), *Oculus* (Intercollegiate Mobile Phone Spot Photography) and *Nobis* (Online Groupfie Contest for college and school students).

- The 16th Prof. Ramakrishna Pillai Memorial All Kerala Problem Solving Contest for undergraduate students in statistics was organised by the Department of Statistics on 9 February 2018. 16 teams representing various colleges participated.

- The Department of Mathematics organised the Prof. Mathew T. Matheikal Intercollegiate Mathematics Quiz Competition on 6 February 2018. Prof. Jais P. Kurian of St. Stephens College, Uzhavoor, was the quiz master. Twelve teams representing colleges from all over Kerala participated in the quiz competition

- The fourth Prof. A. V. Varkey Memorial Intercollegiate Physics Quiz Competition was organised by the Department of Physics. Teams representing various colleges from all over Kerala actively participated in the quiz competition. Prof. Augustine J. Edakkara and Dr. Jobin Job Mathen were the quiz masters.

- The Department of Malayalam in association with Rev. Dr. Kurian Mattam Foundation has started a literary forum named Sargam Sahithyavedi in the college. The forum meets every month on the first saturday. The aim of the *Sargam Sahithyavedi* is to provide a forum for literature students to present short stories, poems, films etc. and conduct discussions on the same. The forum was inaugurated by Dr. Ciby Kurian, HoD of Malayalam, Deva Matha College, Kuravilangad, on 5 August 2017.

Sports Profile

Achievements

- Our volleyball team won first place in 11 and runner up position in 4 All Kerala tournaments. In addition, they won the first place in the M.G. University Volleyball Championship and College Games, and the Senior District Championship, Kottayam.
- There were 6 interuniversity silver medalists in the All India Interuniversity Volleyball Championship.
- In athletics there was one silver medalists in the Interuniversity Athletic Championship in 400 mts.
- 6 players from our volleyball team participated in the interuniversity tournaments.
- In athletics 6 students participated in the interuniversity competitions.
- In swimming and waterpolo 7 students, in weightlifting 1, in badminton 2, in taekwondo 1, in powerlifting 3 and in softball 2 students participated at the

interuniversity competitions.

- A total of 40 medals were won by our students in National/ University level and 5 of the students participated in the All India Interuniversity competitions

Events Organized

1. Bishop Vayalil All Kerala Inter - Collegiate Volleyball Tournament for Men & Women
2. Mahatma Gandhi University South Zone and Interzone Badminton Championship
3. South Zone and All India Interuniversity Volleyball Camp
4. *Soccer Mania* : 5- a - Side Football Tournament For College Students
5. Summer Coaching Camp in Swimming, Badminton, Tennis and Football
6. Free Swimming Classes for Students of Government and Aided Schools
7. Swimming Training Camp for Students of Carmel Public School, Pala
8. UGC-Sponsored National Seminar on “Changing The Game: An Outlook For Global Sports Industry”
9. Conduct of State School Athletic Championship
10. Adventure Activity Camp for the Students of BCM College, Kottayam
11. Badminton Tournament for the College Students.
12. An inter-departmental volleyball tournament was organised by the College Union, and the Department of English emerged as the champions and the Department of Sports Studies as the runners-up.

Extension and Outreach Programmes

Sastrapadham Science Experience Camp - Jaivayathra 2017

The Department of Botany of the College in association with the Corporate Educational Agency of the Diocese of Palai organised the *Sastrapadham* Science Experience Camp - *Jaivayathra 2017* for high school and higher secondary school students during 6-8 September 2017. The theme of the camp organised to celebrate the International Year of Sustainable Tourism for Development 2017 was ‘Journey to the Core of Nature’. 140 students and 40 teachers participated in the camp which was sponsored by the Kerala State Biodiversity Board. Dr. Jomy Augustine, Asso. Professor and Head, Dept of Botany, was the Academic Co-ordinator of the Camp.

Arogya Expo’ 17

The *Arogya Expo’ 17* health exhibition was organized by Department of Biochemistry in association with Ayurveda Medical Association of India (AMAI), Siddha Medical Association of India (SIMAI) & Homeopathic Association of India on 18 and 19 September 2017. The programmes in the Expo were a great whopping of brainstorming sections like ayurveda, homeo, siddha and unani. In addition to these, there were a free speciality medical camp, awareness classes on various medical fields and diseases, and a major exhibition of medicinal plants with the stalls of various Ayurvedic companies. In

the *Arogya Expo '17* altogether 1300 students, 700 natives (from Pala) and 400 visitors (outside Pala) showed their presence. There were poster presentations also on various areas of the medical field.

Sastrapadham Science Magazine

Six issues of *Sastrapadham*, the popular science magazine in Malayalam for school children, were brought out under the initiative of the teachers of the College. They are July 2017 issue on 'Electric Power in India' by Dr. Ison V. Vanchipurackal (Dept. of Physics), August 2017 issue on 'Biological Invasion' by Dr. Jomy Augustine (Dept. of Botany), September 2017 issue on 'Plastics - Hero or Villain?' by Dr. Sunny Kuriakose (Dept. of Chemistry), November 2017 issue on 'Sample Surveys and Data Analytics' by Dr. K. K. Jose (Dept. of Biostatistics), December 2017 issue on 'Mathematics in the Modern Age' by Dr. Sunil C. Mathew (Dept. of Mathematics) and March 2018 issue on 'Science@2017' by Dr. G. D. Gem Mathew (Dept. of Chemistry).

Restone II - Eco-Friendly Initiative

Restone is an eco-friendly zero waste initiative of the Centre for Academic Social Responsibility (CASR) of the Department of Commerce of the College for making value-added carry bags from old unused shirts as a campaign against plastic carry bags. The inauguration of *Restone* Phase II was carried out by Sri. Mathew M. Kuriakose (Principal, St. Thomas HSS, Pala, & Environmental Activist) on 9 November 2017.

Extension Programmes by the Department of History

The Department of History organized an extension programme at Meenachil Aided L.P. School, Meenachil, on 3 October 2017. All students of the Department of History along with the faculty members participated in the programme. The highlights of the programme were:

- Creation of Reading Corner in each classroom
- Subscription of 'Digest' magazine for each class for the academic year,
- Subscription of the newspaper Times of India to the school reading room for the academic year,
- Cleaning of school premises,
- Construction *Jaiva Vaividhya* Park recommended by the Education Department, Govt. of Kerala, for schools and,
- Curriculum -based classes and recreational activities.

Extension Programme by the Department of Biostatistics

A 'Health Survey on Emerging Diseases' was conducted in Pala Municipality and Mutholy Panchayath by the students of M.Sc. Biostatistics under the leadership of the faculty members during August - September 2017. The report was published in October 2017.

LED Bulb Mission

An awareness programme on the prospects of LED bulbs was conducted by the Department of Physics. The programme was conducted for the Municipal Councillors of Pala Municipality and in the municipal wards also. Dr. Ison V. Vanchipurackal was the co-ordinator.

Yoga Day Celebrations

NSS volunteers and Programme Officers observed Yoga Day on 21 June 2017.

Nature Camp

The NSS Unit in association with the Forest Department conducted a nature camp at Thattekkad Bird Sanctuary from 29 to 31 July 2017. As part of the *Swachh Bharath* Mission, volunteers cleaned the hill view point and surroundings at the tourist spot. Bird watching program and trekking along with Forest Department officials helped the volunteers study more about nature. They could enjoy the beauty of nature. The Camp also included awareness classes by BFOs on topics of biodiversity in the Western Ghats and the role of youth in environment protection.

Organic Farming

The NSS Unit started organic farming in the premises of Govt. L P School, Kadayam, Pala, on 8 August 2017. Mrs Renu Mathew, Agricultural Officer, explained the scientific methods in organic farming. Volunteers were divided into different groups and they looked after the cultivation under the leadership of the Program Officers and Volunteer Secretaries. They were able to cultivate vegetables like cucumber, pea, bitter gourd etc.

Karunyasparsham : Hands of Help for the Marginalised

For helping the senior citizens who were left alone by their children, the volunteers conducted a campaign to collect daily utility articles from the students and staff on 15 December 2017. The response from the college community was really amazing. The NSS unit was able to collect different utility articles. Volunteers along with the program officers visited an old age home run by nuns and contributed the things collected by them.

Blood Donation Camp

A blood donation camp was conducted by NSS unit on 4 December 2017. The program gave another opportunity for the energetic youth of the campus to contribute to the well being of the society. Principal Dr. Joy George inaugurated the program. 108 students including volunteers donated blood.

National Science Day celebrations

The RACS Cell organizes National Science Day celebrations on 28th February, every year, with financial support from KSCSTE, Govt. of Kerala. On the first three days of the celebrations, 22, 23 and 26 February 2018, various competitions were organized to promote a scientific bend of mind in the students. The main celebrations on 27 February 2018 included a public meeting with a Science Day Lecture in which all science departments of the College,

namely Physics, Chemistry, Mathematics, Statistics, Biostatistics, Botany, Biotechnology and Applied Microbiology participated.

The main celebrations of National Science Day were held on 27 February 2018. Dr. Jose K. Xavier, Director, RACS Cell, extended a hearty welcome to the gathering. Dr. Joy George, Principal and Adviser to the RACS Cell, presided over the meeting which was inaugurated by Dr. Nandakumar Kalarikkal, Director, International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam. Dr. Nandakumar Kalarikkal delivered a talk on the focal theme “Science and Technology for Sustainable Future”. The chief guest gave away prizes to the winners of the various competitions held in connection with the Science Day celebrations. Dr. Sunny Mathew, former Senate Member of M.G University, felicitated the gathering.

Roll of Honour

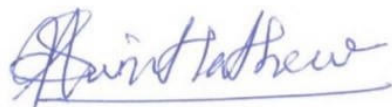
- Our students brought laurels to the College by winning as many as 28 University top positions (I, II and III) and overall A Grade in the university examinations held during April/May 2017.
- 32 postgraduate students of the College qualified the UGC or Joint CSIR-UGC Test (National Eligibility Test - NET) for Junior Research Fellowship and Lectureship held during June and December 2017.
- 11 research scholars of our college has been awarded Ph. D. in various subjects during the Academic Year.
- Ms. Divya Kuttanchalil Andrews of I M.Sc. Statistics won the second prize in the All India On the Spot Essay Writing Competition conducted by the Ministry of Statistics and Program Implementation, Govt. of India, on 11 March 2018 in connection with the National Statistics Day Celebrations 2018.
- Best Research Poster Presentation Award Winners -The following research scholars in the Department of Physics have won best research poster presentation awards:
 - i) Mr. Prince Thomas - Best poster award at National Seminar on Crystal Growth and Applications, held at Tirupatur during 23-31 January 2018.
 - ii) Sr. Simi N. J. - Best poster award at International Conference on Materials for Energy and Environment, held at Loyola College, Chennai, during 22-23 February 2018.
 - iii) Mr. Jincemon Cyriac - KSCSTE - Springer Award for Best Poster in Physical Sciences at the 30th Kerala Science Congress, held at Government Brennen College, Thalasserry, during 28-30 January 2018.
- Ms. Navamy Krishna, M.Sc. Applied Microbiology 2014-16 batch, has been awarded the prestigious Inspire Fellowship by the Department of Science and Technology, Government of India. She was the winner of the I Position in the university examinations of May 2016.

Alumni Activities

- Alumni Day Celebrations- The 67th Alumni Day was celebrated with much pomp and glory on 20 October 2017. Important events of the day included reunion of the seventeenth batch of the College and presentation of the Founding Fathers Trust Award.
- An All Kerala Intercollegiate Quiz competition was organised by the Alumni Association on 13 December 2017 for promoting the intellectual growth of students and for preserving the precious memories of the founding fathers of the college.
- A General Body Meeting of the Chemistry Alumni Association presided over by the Vice President Dr. (Sr.) Elsa Tom was held on 4 August 2017.
- An alumni meet of M. A. Hindi 1986 - 88 batch was organised by the Department of Hindi on 1 May 2017. Former faculty members Dr. N. K. Joseph, Dr. P. C. Philip, Dr. K. M. Mathew and 22 former students were present on the occasion.
- In connection with the Golden Jubilee Celebrations of the Department of Economics, an alumni meet of M.A. Economics 1966- 68 batch was organised on 30 October 2017. Later an alumni meet of MA Economics 1988-90 batch was also organised.

Name: Dr. Sunil C Mathew

Name: Rev. Dr. James John



Signature of the Coordinator, IQAC



**Signature of the Chairperson, IQAC
(Principal)**

Palai

