



# Report of the IQAC 2015-16

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)

**ARUNAPURAM P. O., KOTTAYAM, KERALA – 686 574**

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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 2014-15 to NAAC:	10-11- 2015
Dates of Meetings of IQAC:	1. 12-06-2015 2. 09-07-2015 3. 28-10-2015 4. 15-01-2016 5. 01-03-2016 6. 06-04-2016
Minutes and Action Taken Reports are available in the institutional website.	Link to Minutes of Meetings <a href="https://www.stcp.ac.in/images/pdf/iqac/Minutes%20of%20IQAC%20Meetings%202015-16.pdf">https://www.stcp.ac.in/images/pdf/iqac/Minutes%20of%20IQAC%20Meetings%202015-16.pdf</a>
	Link to Action Taken Report <a href="https://www.stcp.ac.in/images/pdf/iqac/Action%20Taken%20Report%202015-16.PDF">https://www.stcp.ac.in/images/pdf/iqac/Action%20Taken%20Report%202015-16.PDF</a>
No. of Fulltime Teachers	147
No. of Non-teaching Staff	45

Number of students on rolls	2491		
Number of programmes offered	42		
Number of sanctioned seats	1115		
Number of students admitted	1027		
Number of full time teachers with Ph. D.	52		
Number of students benefited by scholarships and freeships provided by the Government	1204		
Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies	349		
<b>Quality Initiatives</b>			
Date(s) of Internal Academic Audit	22-08-2015		
Date(s) of Internal Administrative Audit	04-07-2015		
Date(s) of External Administrative Audit	18-04-2016		
Date(s) of Orientation Programmes to Teaching staff	25-02-2016		
Date(s) of Orientation Programmes to Non-teaching staff	06-06-2015		
Date(s) of Orientation Programmes to Students	02-10-2015, 11-03-2016		
Number of Seminars organized/Projects in Collaboration with Other Institutions/Agencies	7		
Number of Collaborative Research Papers	3		
<b>Faculty participation in conferences and symposia</b>			
	Number of Faculty		
	International level	National level	State level
Attended Seminars/ Workshops	14	28	6
Presented papers	1	2	9
Resource Persons	1	10	3
No. of faculty members involved in curriculum restructuring / syllabus revision/ development as member of Board of Study/Faculty/Curriculum Development workshop	52		
<b>Research Projects</b>			
Major Research Projects	4		
Minor Research Projects	7		
<b>Number of research publications</b>			
Peer Reviewed Journals	28		

Non-Peer Reviewed Journals		14			
Conference Proceedings		8			
<b>No. of books published</b>					
With ISBN No.	3	Chapters in Edited Books	1	Without ISBN No.	1
<b>No. of conferences organized by the Institution</b>					
Level	International	National	State	University	College
Number	1	3	4	1	12
<b>Initiatives undertaken towards faculty development</b>					
<b>Faculty/ Staff Development Programmes</b>			<b>Number of faculty benefitted</b>		
Refresher courses			5		
Orientation programmes			3		
<b>Pass Percentage of Final Year Students</b>					
Number of Students Appeared			755		
Number of Students Passed			566		
Pass Percentage			74.97		

## Activities During 2015-16

### Internal Quality Assurance Cell (IQAC) Reconstituted

The IQAC of the College was reconstituted on 23 July 2015 keeping in view the quality assurance needs of the College for the next five years and reaccreditation falling due in 2020. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of the institution. The IQAC will channel the efforts and measures towards academic excellence in all the operations of the institution to assure the stakeholders the accountability of the institution for its own quality and probity.

Chairman : Dr. Sunny Joseph (Principal)

Vice Chairman : Rev. Dr. James John Mangalathu (Vice Principal)

Co-ordinator : Dr. Sunil C. Mathew (Dept, of Mathematics)

Members : Rev. Fr. Mathew Kurian Kavanadimalayil (Bursar)

Dr. Sunny Kuriakose (Dept, of Chemistry)

Dr. T.J. Abraham (Dept, of English)

Dr. Siby James (Dept, of English)

Dr. Ison V. Vanchipurackal (Dept, of Physics)

Prof. Mathew Thomas (Dept, of Zoology)

Dr. Babu Jose (Dept, of Commerce)

Sri. Jose Joseph (Administrative Assistant)

Dr. K. K. Jose ( Distinguished Educationalist & Local Representative)

Sri. Joby George (Sub Div. Engineer, BSNL and Alumni Representative)

Sri. Jose Mampampil (Industrialist)

### The College Accorded CPE Status (Phase II)

The University Grants Commission (UGC) has selected St. Thomas College, Pala for the College with Potential for Excellence (CPE) status (Phase II) for the period 2016-2021. The College is expected to receive a special grant of Rs. Two crore as part of this program. Rev. Dr. James John Mangalathu, Vice Principal and Dr. Sunny Kuriakose, Plead, Dept of Chemistry, represented the College in the interface with the expert committee of the UGC held at the UGC headquarters in New Delhi on 16 May 2016.

### New Teachers Appointed

The faculty of the College has been further strengthened by the joining of the following Assistant Professors, appointed during 2015-16.

- Mr. Gibin Raja George — Dept. of English
- Mr. Tony Joseph — Dept. of Malayalam
- Dr. (Sr.) Kochurani Joseph — Dept. of Hindi
- Dr. Anish Cyriac — Dept. of Hindi
- Dr. Deemat C. Mathew — Dept. of Statistics
- Mr. Tojo Joseph — Dept. of Chemistry

- Mr. Manjesh Mathew — Dept. of Chemistry
- Dr. Jayesh Antony — Dept. of Zoology
- Mr. Roberse Thomas – Dept. of Economics

## Seminars, Conferences, Workshops and Lectures

### International Symposium on Concurrent Methodologies in Organic Synthesis and Erudite Lecture

A one-day international symposium on Concurrent Methodologies in Organic Synthesis was organised by the Department of Chemistry of the College in association with the Institute for Intensive Research in Basic Sciences (IIRBS), Mahatma Gandhi University, Kottayam on 13 February 2016, in honour Prof. Ei-ichi Negishi (2010 Chemistry Nobel Laureate), Purdue University, USA, who visited Kerala as a State Guest. The programme was sponsored by the Department of Science of Technology (DST), Government of India; Kerala State Council for Science, Technology and Environment (KSCSTE), and Kerala State Higher Education Council (KSHEC), Government of Kerala. It was intended to be part of enriching basic science education in the State of Kerala. Prof. Negishi was the Chief Guest of Honour at the symposium where several eminent scientists in diverse areas of organic synthesis delivered plenary lectures.

Vice Chancellor, Mahatma Gandhi University at a meeting presided over by Dr. Suresh Das, Executive Vice President of KSCSTE, Government of Kerala. The Vice Chancellor draped Prof. Ei—ichi Negishi with a ponnada. Dr. Sunny Joseph, Principal, offered felicitations. He also presented a memento to Prof. Ei—ichi Negishi on behalf of the College. Dr. I. Ibnusaud, Convener, welcomed the gathering and Dr. G.D. Gem Mathew, Local Co—ordinator, proposed the vote of thanks.

In the Scientific Session 1 that followed, Prof. H. Junjappa, INSA—Senior Scientist was the chairman. Plenary lectures were delivered by Dr. S. Chandrasekaran, Indian Institute of Science, Bangalore; Dr. Ganesh Pandey, Director, Centre for Bio—medical Research (CSIR), Lucknow; Dr. T.V. RajanBabu, Professor, Ohio State University, USA; Dr. A Ajayaghosh, Director, National Institute for Interdisciplinary Science and Technology (CSIR), Thiruvananthapuram and Dr. Thomas J. Colacot, Global R & D Manager, Johnson Matthey Inc., USA.

In the Scientific Session 2, Dr. Ganesh Pandey, Director, CBMR, Lucknow was the chairman. Plenary lectures were delivered by Dr. H. Ila, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore; Dr. Srivari Chandrashekar, Director, Indian institute of Chemical Technology (CSIR), Hyderabad; Dr. M. Periasamy, Vice Chancellor, Hyderabad Central University and Dr. I.N.N. Namboothiri, Professor, IIT Bombay.

In the Scientific Session 3, Dr. Thomas J. Colacot introduced Nobel Laureate Prof. Ei—ichi Negishi to the audience. Prof. Ei—ichi Negishi then delivered the Erudite Lecture of the Kerala State Higher Education Council on the topic “Magical Power of Transition Metal Catalysis: Past, Present and Future”. This was followed by the Valedictory Session which was chaired by Dr. V.N. Rajasekharan Pillai, former Vice Chairman of University Grants Commission. Dr. Suresh Das, Executive Vice President of Kerala State Council for

Science Technology and Environment (KSCSTE), Government of Kerala, delivered the valedictory address. Prof Ei—ichi Negishi presented merit certificates and mementos to meritorious students including the following students of the college: Ms. Isna Susan Abraham (M.Sc. Chemistry 2013-15 batch topper and winner of 'A' grade), Mr. Anish Babu (II M.Sc. Chemistry 2015-16 class topper) and Ms. Amala Shaliya Joseph (I M.Sc. Chemistry 2015-16 class topper). The symposium came to an end with concluding remarks by Dr. I. Ibnusaud, Convener.

### **Prof. K. Philip John Endowment Lecture and Business Plan Presentation Contest**

The Department of Commerce in association with Prof. K. Philip John Memorial Academic Foundation and Vegetable and Fruit Promotion Council Keralam (VFPCCK), hosted a prestigious event viz. Prof. K. Philip John Endowment Lecture and Business Plan Presentation Contest on 'Value Addition in Agro and Dairy Products' on 29 January 2015. The programme consisted of endowment lecture, seminar and exhibition of value added products. The programme was inaugurated by Very Rev. Msgr. Abraham Kollithanathumalayil, Vicar General, Diocese of Palai. Ms. Resmi I., Manager VFPCCK, Kottayam delivered the keynote address and presented a brief report on the topic 'Recent changes in the field of value addition in agricultural and dairy products'. Rev. Dr. James John Mangalathu, Vice-Principal of the College and Prof. K. V. John, Plead of the Department of Commerce, offered felicitations. Prof. Bobby Simon, Director of the Commerce Forum, welcomed the gathering and Prof. Binoy Chacko, Convener of the programme, proposed the vote of thanks. Around 100 value added products were exhibited in this session.

Ms. Remya R. and Ms. Shijini V. M., Assistant Managers of VFPCCK, Kottayam delivered lectures on the topics 'Agro processing', 'Benefits of value added agricultural products with case studies' and 'Threats of hazardous chemicals in food processing'. There were separate 'business plan presentation' contests for public and students. As part of the programme, a blog named "Taste of Kalavara" was also launched. Adv. George C. Kappen, President, KISCO Bank, officially launched the blog. The seminar concluded with a valedictory session chaired by Adv. George C. Kappen. Dr. Lini L Alappattu, Assistant Professor, Vocational Education Department, gave the valedictory message.

### **UGC-sponsored Workshop on Research Methodology**

A three-day UGC- sponsored Workshop on Research Methodology for Commerce, Management and Economics streams was organised by the Department of Commerce during 16-18 September 2015. The workshop was aimed at exploring the basic dimensions of research and the need for scholars to rethink the assumptions that underline historic paradigm of research in these fields. The workshop was inaugurated by Dr. Sheena Shukkur, Hon'ble Pro-Vice Chancellor, Mahatma Gandhi University, Kottayam at a meeting presided over by Dr. Sunny Joseph, Principal. Dr. Gabriel Simon Thattil (Professor, University of Kerala) and Dr. Daniel Lazar (Associate Professor, Pondicherry University) offered felicitations. Prof. K.V. John, Head of the Department, welcomed the gathering and Dr. Babu Jose, Convener, proposed the vote of thanks.

### **National Workshop on Statistics**

A two-day National Workshop on 'The Role of Official Statistics in National Development and Career Opportunities in Statistics' was organised by the Department of Statistics on 21 & 22 August 2015. Dr. T. C. A. Anant, Chief Statistician of India cum



Secretary to the Ministry of Statistics and Programme Implementation, Govt. of India, and Shri. G. S. N. Murthy, Deputy Director General, National Statistical Systems Training Academy (NSSTA) were the resource persons. This year's winners of National Statistics Day 2015 essay writing competition were felicitated on the occasion.

### **Workshop on the Use of Technology in Teaching and Administration**

A one-day workshop on the 'Efficient Use of Technology in Teaching and Administration' was organized by the Internal Quality Assurance Cell (IQAC) of the College on 3 June 2015. Dr. Babu Sebastian, Hon'ble Vice Chancellor, Mahatma Gandhi University, Kottayam, inaugurated the workshop and delivered the key-note address. He spoke about the '5 waves' of information technology which are sweeping across the world and affecting our daily lives. Dr. Ison V. Vanchipurackal, Assistant Professor, Department of Physics, presented a Power Point on the topic 'ICT Facilities at St. Thomas College, Palai: Resources, Opportunities and Challenges'.

### **Rev. Dr. Mathew Maleparampil Memorial Lecture**

The Principals' Council of Kerala has instituted a Memorial Lecture in honour of late Rev. Dr. Mathew Maleparampil, who served as the Principal of St. Thomas College, Pala (2001- 2006) and the General Secretary of All Kerala Private College Managements Association. The inaugural lecture was delivered by Dr. Babu Sebastian, Hon'ble Vice Chancellor, Mahatma Gandhi University, Kottayam, on the topic 'Values in Education' on 13 October 2015. The programme was attended by functionaries of the Principals' Council, and All Kerala Private College Managements Association, and teachers of the College.

### **Workshop on Financial Education**

A workshop on 'Financial Education for Young Investors' was organised by the Dept. of Economics on 17 June 2015. Dr. Sunny Joseph, Principal, inaugurated the workshop and Sri. Amod Mathew, Certified Trainer, SEBI, was the chief resource person. Prof. Joji Jacob welcomed the gathering and Sri. Emil Mathew Binny proposed the vote of thanks.

### **Invited Talk on 'Hindi Language: Challenges and Opportunities'**

Dr. R. B. Singh, noted Hindi scholar from Ayodhya, U.P. was invited to the Department of Hindi on 29 February 2016 to deliver a talk on 'Hindi Language: Challenges and Opportunities'. In his speech Dr. R. B. Singh exhorted the teaching as well as the student community to be ready to take extra pains to propagate Hindi in the age of globalization, in order to maintain the unity and integrity of the nation. Dr. V.V. Georgekutty Vattoth, Head of the Department, welcomed the gathering and Dr. P.D. George proposed the vote of thanks.

### **State Seminar on 'Dr. P. J. Thomas: The Global Economist'**

Dr. P J. Thomas Centre for Social Sciences Research of the College organised a one-day State Seminar on 'Dr. P.J. Thomas: The Global Economist' on 11 February 2016. The seminar was inaugurated by H. E. Mar Jacob Muricken, Auxiliary Bishop of Palai and Manager of the College, at a meeting presided over by Dr. Sunny Joseph, Principal. Dr. T. V. Muralivallabhan, Former Principal, SVR NSS College, Vazhoor, delivered the keynote address. Dr. Biju K.C. delivered a retrospective on Dr. P. J. Thomas. Rev. Dr. James John

Mangalathu, Vice Principal, offered felicitations. Dr. Joy George, Head, Dept of Economics, welcomed the gathering and Prof. Bobby Simon, Dept. of Commerce, proposed the vote of thanks. There was also a paper presentation seminar by the postgraduate students of the Departments of Commerce, History, Economics and Politics.

Dr. P J. Thomas Centre for Social Sciences Research was formed in the College in 2004 to commemorate the cherished memories of the late Dr. P J. Thomas, Economic Advisor, Govt. of India (1942-48) and the first Principal of St. Thomas College, Pala. The Centre strives to enlighten the social science students of the College through seminars, discussions and workshops.

### **Invited Talk on ‘Social Entrepreneurship’**

The Department of Commerce has initiated a series of invited talks by eminent speakers and researchers of academic excellence. The first invited talk was conducted on 12 October 2015. The speaker for the day was Dr. Johnson Jament, Professor, University of Northampton, England. He interacted with the students of the Department on the topic ‘Social Entrepreneurship’.

### **National Workshop on Biostatistical Methods in Clinical Research**

A National Workshop on Biostatistical Methods in Clinical Research was organised by the Department of Biostatistics on 26 and 27 February 2016 in collaboration with ISMS. The resource persons were Dr. Anil C. Mathew, Professor of Biostatistics at PSG Institute of Medical Sciences and Research, Coimbatore and Dr. B. Anilkumar, Asst. Professor of Biostatistics at NIMHANS, Bangalore.

### **Workshop on R Programming and SAS**

A Workshop on R Programming and SAS was organised by the Department of Biostatistics on 25 and 26 January 2016. Dr. Tomy Sebastian, Asst. Professor of Biostatistics, CMC, Vellore and Mr. Binil M. George, Senior Programmer, TCS, Bangalore, were the resource persons.

### **Pusthaka Mela**

A *Pusthaka Mela* (Book Fest) was organised by the *Malayala Samajam* of the Department of Malayalam in association with the College Library and Book Media Publishers. The programme enabled the teachers, nonteaching staff and students to get their favourite books in a convenient way. The book fest was inaugurated by Rev. Dr. James John Mangalathu, Vice- Principal at a meeting presided over by Dr. Davis Xavier, Head of the Department of Malayalam. College Librarian Shri. Tomy Joseph offered felicitations.

### **Prabhashana Parampara**

A ‘Prabhashana Parampara’ (Series of Lectures) on topics related to Malayalam literature was organised by the Department of Malayalam during the current year. The programme was inaugurated and the first lecture of the series on the topic ‘Kadhayum Kalavum’ was delivered by Sri. Vayalar Saratchandra Varma, noted poet, on 20 January 2016.

## Vayanavaram

'Vayanavaram' was celebrated by the Dept, of Malayalam in association with College Library on 19 June 2015. The program was inaugurated by Rev. Dr. James John Mangalathu, Vice Principal. Dr. Davis Xavier, Head of the Department, presided over the function and Sri. Tomy Joseph, Librarian, offered felicitations. Students from the Department made efforts to familiarize famous novels such as *Aarachar* by Smt. K.R. Meera, *Verukal* by Sri. Malayattoor, *Francis Ittikora* by Sri. T.D. Ramakrishnan and *Oxygen Cylinder* by Sri. Anoop Chandran. A debate on the effect of new generation media on reading habits was also organized.

## Know Your Campus(KYC 2015) Programme

An innovative campus tour titled 'Know Your Campus (KYC 2015)' was organized as part of the induction program for the freshers to the College on 16 July 2015. The first year students were taken to all the Departments and facilitation centres of the College by student coordinators for acquainting them with the College. A documentary film on the College was also exhibited for them.

## INVITED LECTURES DELIVERED BY EXPERTS

### Department of Politics

1. Dr. T. V. Muralivallabhan, former Principal, SVR NSS College, Vazhoor, delivered an invited talk on the topic "Importance of Environmental Protection" on 5 June 2015.
2. Dr. T. V. Paul, McGill University, Montreal, Canada, delivered the Erudite Lecture of the Kerala State Higher Education Council on the topic 'How to Achieve Stable Peace in South Asia'.

### Department of Biotechnology and Applied Microbiology

1. Dr. Jose Sebastian, Stanford University, USA, delivered an invited lecture on 'CRISPR Gene Editing Technique and its Importance in Plants' on 23 March 2016

### Department of Statistics

1. Dr. Jom Jacob, Deputy Director, Statistics and Planning Division, Rubber Board, gave a talk on 'Understanding Commodity Market Dynamics' on 21 January 2016.

### Department of English

1. Dr. Rangarajan Gopalakrishnan, Rajagiri School of Business Studies, delivered a lecture on 'Globalization and Honing of Indian Language Skills' on 19 October 2015.
2. Dr. Krishnan Unni P., Delhi University, delivered an invited talk on the topic 'Derrida and Deleuze' on 19 November 2015.
3. Dr. C.C. Thomas, former Professor, St. Berchmans College, Changanassery, delivered a lecture on 'Shakespeare: Yesterday, Today and Tomorrow' on 26 November 2015.

### Department of Biostatistics

1. Dr. T. C. A. Anant, Chief Statistician of India cum Secretary, Ministry of Statistics and Programme Implementation, Govt. of India, delivered an invited lecture on 'Indian Statistical System' on 22 August 2015.

## ACADEMIC AND RESEARCH ACTIVITIES BY THE FACULTY

### New Research Projects

#### Dr. Ginson P. Joseph Awarded Two Major Research Projects

Dr. Ginson P. Joseph (Department of Physics) has been awarded two major research projects during the current academic year.

1. Third order nonlinear optical properties and optical switching in CdSe/ CdTe polythiophene nanocomposites (Rs. 25,35,000/-, SERB)
2. Development of frequency doubling thiocyanate complex and its Lewis base adduct crystals for optoelectronic devices ( Rs. 17,71,000/- , CSIR)

### Completed Minor Research Projects

The following UGC Minor Research Projects sanctioned to the teachers of the College under the XII Plan during 2014-'15 have been successfully completed.

Sl. No.	Name of the Principal Investigator	Department	Amount
1.	Dr. Sunny Kuriakose	Chemistry	Rs. 1,20,000/-
2.	Dr. Thomas V Mathew	Chemistry	Rs. 1,50,000/-
3.	Dr. Sajeev Martin George	Chemistry	Rs. 95,000/-
4.	Prof. Bobby Simon	Commerce	Rs. 37,500/-
5.	Dr. Tejil Thomas	Commerce	Rs. 30,000/-
6.	Prof. Binoychacko	Commerce	Rs. 67,500/-
7.	Dr. Babu Jose	Commerce	Rs. 37,500/-
8.	Dr. T.J. Abraham	English	Rs. 55,000/-
9.	Prof. Shilpa Mathew	English	Rs. 1,35,000/-

### Major Research Projects Completed/In Progress

1. Dr. K. K. Jose (Dept. of Biostatistics), 'Marshall-Olkin generalized distributions and appreciations', (Rs. 9,95,200/-, UGC).
2. Dr. K. K. Jose (Dept. of Biostatistics), 'A new class of asymmetric distributions and their applications' (Rs. 15,00,000/-, KSCSTE, Govt. of Kerala)
3. Dr. Ratheesh M. (Dept. of Biochemistry), 'Value added formulation of Ksheerabala by using virgin coconut oil and its therapeutic effect on arthritis' (Rs. 9,48,430/-, Coconut Development Board, Govt. of India.)

## Research Papers Published

### Department of Biostatistics

1. K. K. Jose and Remya Sivadas (2015) Marshall-Olkin Exponentiated Generalized Frechet Distribution and its Applications, *Journal of Probability and Statistical Sciences*, 13,2,167-178.
2. K. K. Jose and Remya Sivadas (2015) Negative Binomial Marshall-Olkin Rayleigh Distribution and its Applications, *J. Eco. Quality Control*, 30,2,189-198.
3. K. K. Jose and K.D.Mariyamma (2016) A note on an integer valued time series model with Poisson - negative binomial marginal distribution, *Communications in Statistics-Theory and Methods-*, 45,1,123-131.
4. Anil C. Mathew, Darsana Das, Saranya Sampath, M.Vijayakumar, N. Ramakrishnan, S. L. Ravishankar (2016) Prevalence and Correlates of Malnutrition among Elderly in an Urban Area in Coimbatore, *Indian Journal of Public Health*, Volume 60, Issue 2, April-June, 2016
5. Subhradev Sen, Meenu Tom, Geetha M. and Satheesan B. (2016) Estimating unknown heterogeneity in head and neck cancer survival: A parametric shared frailty approach, *Electronic Journal of Applied Statistical Analysis*.

### Department of Physics

1. Jose Sebastian, Eby Thomas Thachil, Jobin Job Mathen, Augustine J. Edakkara, Nelson Kuriakose, Ginson P. Joseph, Joby Sebastian (2015) Preparation and Characterization of ZnSe/EVA Nanocomposites for Photovoltaic Modules: *Journal of Minerals and Materials Characterization and Engineering*, 3,215-224
2. Jose Sebastian, Eby T. Thachil, Jobin Job Mathen, J. Madhavan, Prince Thomas, Jacob Philip, M. S. Jayalakshmy, Shahrom Mahmud, Ginson P. Joseph (2015) Enhancement in the Electrical and Thermal Properties of Ethylene Vinyl Acetate (EVA) Co-Polymer by Zinc Oxide Nanoparticles: *Open Journal of Composite Materials* 5,79-91.

### Department of History

1. Cyriac Jose, "Hinterland Trade in Medieval Period: Significance of Chumadutangi Stones in Kottayam, Kerala", *Heritage: Journal of Multidisciplinary Studies in Archaeology*, 2347-5463, Volume 1, pp 551-561, 2015.

## Papers Presented at International / National Seminars/Conferences / Workshops

### Department of Physics

1. Electrical and Optical Properties of ZnO / Polystyrene Composites: Jose Sebastian, Eby Thomas Thachil, Jeeba Sunny, Jobin Job Mathen, **Ginson P. Joseph**; 8th International Conference on Materials for Advanced Technologies (ICMAT 2015), 28 June - 03 July 2015, organized by Materials Research Society of Singapore at Suntec, Singapore.
2. Electrical and Thermal Properties of ZnO / EVA Nanocomposite Films: Jose Sebastian, Eby Thachil, **Ginson P. Joseph**; 8th International Conference on Materials for Advanced Technologies (ICMAT 2015), 28 June - 03 July 2015,

organized by Materials Research Society of Singapore at Suntec, Singapore.

3. Effect of Electron Irradiation on the Optical and Electrical Properties of L-Arginine Perchlorate Single Crystals: Prince Thomas, Santhosh Kumar R, **Ginson P. Joseph**; 8th International Conference on Materials for Advanced Technologies (ICMAT 2015), 28 June - 03 July 2015, organized by Materials Research Society of Singapore at Suntec, Singapore.
4. Multi-Layer Anti-Reflection Coating Using ZnSe /CVA Nanocomposite for Better Energy Conversion in Solar Cell Applications: Jobin Job Mathen, **Ginson P. Joseph**, Augustine J.Edakkara, Joseph Madhavan; 8th International Conference on Materials for Advanced Technologies (ICMAT2015), 28 June- 03 July 2015, organized by Materials Research Society of Singapore at Suntec, Singapore.
5. Non Linear Optical Properties of L-Histidine Bromide Single Crystals: Prince Thomas, Bitto John, **Ginson P. Joseph**; 8th International Conference on Materials for Advanced Technologies (ICMAT 2015), 28 June - 03 July 2015, organized by Materials Research Society of Singapore at Suntec, Singapore.
6. Designing of EVA Polymer for Better Signal Progression and Inter-Layer Dielectrics in Waveguide Applications: Nelson Kuriakose, Jobin Job Mathen, Joby Sebastian, Joseph Madhavan, **Ginson P. Joseph**; 8th International Conference on Materials for Advanced Technologies (ICMAT 2015), 28 June - 03 July 2015, organized by Materials Research Society of Singapore at Suntec, Singapore.
7. Synthesis Growth and Electrical Properties of Allylthiourea Cadmium Bromide Single Crystals (ATCB): G. Sreekanth, Santhosh Kumar R, **Ginson P. Joseph**, Prince Thomas, S.Chandralingam; 8th International Conference on Materials for Advanced Technologies (ICMAT2015), 28 June- 03 July 2015, organized by Materials Research Society of Singapore at Suntec, Singapore.
8. Effect of Cd<sup>++</sup> and Mg<sup>++</sup> Doping on the Physico- chemical Properties of Thiocyanate Complex Crystals: Santhosh Kumar R, S.Chandralingam, G.Sreekanth, Ginson P. Joseph, Prince Thomas; 8<sup>th</sup> International Conference on Materials for Advanced Technologies (ICMAT 2015), 28 June - 03 July 2015, organized by Materials Research Society of Singapore at Suntec, Singapore.
9. Electrical and Thermal Behaviour of ZnO / EVA Polymer Nanocomposites : Jose Sebastian, Augustine J. Edakkara, Jobin Job Mathen, Joseph Madhavan, S.E Al Garni, Ginson P. Joseph; Sixth International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA 14), 27 July-1 August 2014, organized by the Faculty of Engineering at the University of Leeds, England, UK.

### **Department of History**

1. Cyriac Jose, "Accidental Discovery of the 17th Century Church and the Burials from Sampaloor in Trissur District, Kerala". International Conference on Archaeology of Burials, organized by the Department of Archaeology, University of Kerala, Kariavattom Campus at Trivandrum from 11 to 13 January 2016.



## Invited Talks Delivered by the Faculty

### Department of Biostatistics

Dr. K.K. Jose attended and delivered invited talks in the following seminars/ conferences:

1. The Annual Conference of KSA held at Nirmala College, Muvattupuzha during 12-13 February 2016 and delivered the Prof. K. Ramakrishna Pillai Memorial talk on ‘Generalized Families of Asymmetric Distributions and Applications’.
2. Two invited talks on ‘Biostatistics in India - Recent Developments and Challenges’ and ‘Generalizations of Marshall-Olkin Family and its Applications in Biostatistics’ in memory of Dr. R. N. Pillai in the International Conference on Statistics in the Twenty- first Century (ICSTC) held at the University of Kerala during 17-19 December 2015.
3. Invited talk on ‘Three Decades of Non- Gaussian Time Series Modeling’ at National Conference NCTAS held at Central University of Rajasthan during 25-26 August 2015.
4. Keynote talk on ‘Statistical Computing and Career Opportunities: Scope and Need’ in the UGC-sponsored National Workshop on Mathematical and Statistical Modeling and Computing held during 10- 12 August 2015 at Assumption College, Changanacherry.
5. The 28th Kerala Science Congress 2016 held at University of Calicut during 28-30 January 2016 and acted as a judge in the Young Scientist Award Competition in Mathematical and Statistical Sciences.
6. A series of lectures on Stochastic Processes and Time Series Modelling at the Department of Statistics, Kannur University during March 2016.
7. Invited talk on ‘Statistical Modeling and Probability Distributions at Baselius College, Kottayam on 8 January 2016.
8. Invited talk on ‘Teaching, Research and Consultancy ‘in the Workshop for college teachers at S.B. College, Changanacherry on 15 September 2016.
9. Invited talk on ‘Challenges of Indian Agriculture and Non—Gaussian Time Series Models for Agricultural Crop Prices’ in the International Conference on Agricultural Statistics (ICAS 2016) organized by FAO-UN at Rome during 26-28 October 2016.
10. Invited talk on ‘Research and Career Opportunities in Statistics and Related Areas’ on 19 October 2016 at the Department of Statistics, Calicut University.

### Department of History

1. Prof. Cyriac Jose delivered an invited talk on "The Growth of Archaeological Research in India “ at Thunchath Ezhuthachan Malayalam University, Tiruron 19 December 2015.

### Department of Physics

Dr. Ison V. Vanchipurackal delivered the following lectures:

1. “Materials Science and Engineering: Basic Principles”, at Christian College, Chengannur on 28 March 2016 as part of the UGC-sponsored National Conference on ‘Current Trends in Materials Science’.
2. “Materials Science and Engineering: Opportunities and Challenges” at S.V.R. NSS College, Vazhoor on 10 February 2016 as part of the National Science Day Celebrations 2016.
3. “Materials Science and Engineering: Opportunities and Challenges” on 5 February 2016 at M.E.S. College, Marampally.
4. “Bulk Heterojunction Solar Cells” at S.H. College Chalakudy on 7 October 2015 as part of the UGC sponsored National Seminar on ‘Recent Advances in Growth and Characterization of Non—linear Optical Crystals and Nanomaterials’.
5. “Breaking Barriers: Novel Vistas in Materials Science” on 4 December 2015 at S.B. College Changanassery as part of the National Seminar on ‘Interdisciplinary Science Research: Benefits and Barriers’.

### Department of Chemistry

1. Dr. Sunny Kuriakose delivered an invited lecture on “Modern Techniques in NMR Spectroscopy” at the UGC—sponsored National Seminar on ‘Advances in Spectroscopic Identification’ held at Nirmala College, Muvattupuzha during 4 to 5 December 2015.

### Teachers Who attended Refresher/Orientation/Faculty Development Programmes

Sl. No.	Name of teacher who attended	Title of the program	Duration
1.	Alan Zacharia	Academic Staff college, University of Kerala	27-10-2015 to 16-11-2015
2.	Babu Jose	Referesher Course in E-Commerce and Management	04-08-2015 to 24-08-2015
3.	Jishnu Venugopal	UGC Sponsored Refresher Course in English Language and Modern Literature	01-07-2015 to 21-07-2015
4.	Joji Jacob	UGC Sponsored Orientation Programme, Human Resource Development Centre, University of Kerala	01-01-2016 to 28-01-2016
5.	Mathew Thomas	UGC Sponsored Refresher Course in Life Sciences, HRDC, University of Calicut	02-12-2015 to 22-12-2015
6.	Ratheesh M	UGC Sponsored Refresher Course in Life Sciences on Recent Advances in Life Science: Research and Applications	21-12-2015 to 09-01-2016
7.	Sajeev Martin George	UGC Sponsored Refresher Course in Nanoscience	25-11-2015 to 15-12-2015
8.	Tinchu P. James	UGC Sponsored Four Week Orientation Programme OP-122	09-05-2016 to 04-06-2016



## Teachers in the Board of Studies/Academic Council

Name of the Teacher	Name of the Body
Sunny Joseph	Chairman, PG Board of Studies in Commerce, Mahatma Gandhi University Kottayam
K M Kurian	Chairman, UG Board of Studies in Statistics, Mahatma Gandhi University, Kottayam
Sunil C Mathew	Member, Board of Studies in Statistics , Assumption College Kottayam (Autonomous)
K M Kurian	Convener, Expert Committee in Biostatistics(PG), Mahatma Gandhi University, Kottayam
Jose K Xavier	Member, Academic Council, Rajagiri College of Social Sciences, Kalamassery (Autonomous)
Bejoy Mathew	Member, Academic Council, S H College, Thevara (Autonomous)
Ison V Vanchipurackal	Member, Academic Council, St. Berchmans College Changanachery(autonomous)
C K James	Member, Academic Council, St. Teresas' College, Eranakulam(Autonomous)
C K James	Member, Academic Council, St. Theresa's College, Eranakulam(Autonomous)
Sunny Kuriakose	Member, Board of Studies in Polymer Chemistry, Cochin University of Science and Technology, Cochin
Sunny Kuriakose	Member, Board of Studies in Polymer Chemistry, University of Kerala, Thiruvananthapuram
Sunny Kuriakose	Member, Doctoral Committee for the selection of candidates for PhD Programme in Chemistry (2015 Admission)
Seemon Thomas	Member, Expert Committee in Biostatistics(PG), Mahatma Gandhi University, Kottayam
Shajimon K Mathews	Member, Faculty of Social Sciences, Kannur University, Kannur
Sunny Kuriakose	Member, II Semester CSS (PG) Chemistry Examiners Board June/July 2015
Sunny Kuriakose	Member, IV Semester CSS (PG) Chemistry Examiners Board June 2015
Sunny Kuriakose	Member, PG Board of Studies in Chemistry, Mahatma Gandhi University, Kottayam
Joseph J Mattam	Member, PG Board of Studies in Economics, Mahatma Gandhi University, Kottayam
Manuel Joseph Panavelly	Member, PG Board of Studies in Mathematics, Mahatma Gandhi University, Kottayam
Raj Mathew	Member, PG Board of Studies in Mathematics, Mahatma Gandhi University, Kottayam
K M Kurian	Member, PG Board of Studies in Statistics, Mahatma Gandhi University, Kottayam

Seemon Thomas	Member, PG Board of Studies in Statistics, Mahatma Gandhi University, Kottayam
Davis Xavier	Member, UG & PG Board of Studies in Oriental Languages, Assumption College, Changanassery(Autonomous)
Sunny Mathew	Member, UG & PG Board of Studies in Electronics, Mahatma Gandhi University, Kottayam
Seemon Thomas	Member, UG Board of Studies in Statistics, St. Theresa's College, Eranakulam(Autonomous)
Bejoy Mathew	Member, UG Board of studies in Chemistry, Mahatma Gandhi University, Kottayam
K C Biju	Member, UG Board of Studies in Economics, Mahatma Gandhi University, Kottayam
P J Johnson	Member, UG Board of Studies in English, Mahatma Gandhi University, Kottayam
V K Jose	Member, UG Board of Studies in Mathematics, Mahatma Gandhi University, Kottayam
Ison V Vanchipurackal	Member, UG Board of Studies in Physics and Computer Applications, St. Joseph's College, Devagiri(Autonomous)
Simon Augustine	Member, UG Board of Studies in Physics, Mahatma Gandhi University, Kottayam
Sunny Mathew	Member, UG Board of Studies in Physics, Mahatma Gandhi University, Kottayam
Ison V Vanchipurackal	Member, UG Board of Studies in Physics, Sacred Heart College, Thevara(Autonomous)
Shajimon K Mathews	Member, UG Board of studies in Political Science, Mahatma Gandhi University, Kottayam
K M Kurian	Member, UG Board of Studies in Statistics, Mahatma Gandhi University
Tejil Thomas	Co-opted expert, CBCS PG Curriculum Revision in Commerce, Mahatma Gandhi University, Kottayam

### Collaborative quality initiatives with other institution(s)

- **Institute for Intensive Research in Basic Sciences(IIRBS)**, International symposium on Concurrent Methodologies in Organic Synthesis on 13 February 2016
- **Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology- Kerala and Universiti Sains Malaysia Minden Malaysia**, Collaborative Research resulted in the paper entitled "*Enhancement in Electrical and Thermal Properties of Ethylene Vinyl Acetate (EVA) Co-Polymer by Zinc Oxide Nano-particle*" published in *Open Journal of Composite Materials*, 2015, 5, 79-91
- **International and Inter University center for nanoscience and nanotechnology**, Project on Property study of Polyaniline-chitin Nanocomposite
- **International and Inter University center for nanoscience and nanotechnology**, Project on "*Preparation and Characterization of Carbon nano particles from coconut oil*"

- **UC College Aluva**, Collaborative Research resulted in the paper entitled "*Influence of Sb incorporation on the properties of ZnO thin film*" published in *Materials Chemistry and Physics* (2015)
- **International and Inter University center for nanoscience and nanotechnology**, Project on *Preparation and Characterization of Barium Titanate-Graphene composite*
- **International and Inter University center for nanoscience and nanotechnology**, Project on *Preparation of Cellulose-polyaniline natural rubber composite*
- **Department of Mechanical and Industrial Engineering, Qatar University and Center for Advanced Materials, Qatar University**, Collaborative Research resulted in the paper entitled "*Microtron irradiation induced tuning of band gap and photoresponse of Al-ZnO thin films synthesized by mSILAR*" published in *Journal of Electronic Materials*, 45(10) (2016) 4847- 4853.
- **ICAI & Avis Qualidade**, Oral Coaching for CA- CPT programme of ICAI
- **Vegetable and Food Promotion Council Kerala ( VFPCCK)**, Seminar on Value added Foods products and their exhibitions

### Pass Percentage of Final Year Students

Program Name	Program Code	Number of students appeared in the final year examination	Number of students passed in final year examination
BA English Language & Literature	BAEN	31	26
BA Malayalam Language & Literature	BAMA	40	7
BSc Mathematics	BSMA	31	20
BSc Physics	BSPH	45	39
BSc Chemistry	BSCH	39	29
BSc Botany	BSBO	31	25
BSc Zoology	BSZO	23	11
BSc Recreation, Leisure & Sports Studies	BSRE	20	15
BA Economics	BAEC	48	35
BA History (Archaeology and Museology)	BAHI	22	14
BA Political Science	BAPS	39	23
BA English Literature and Communication Studies	BACE	29	24
BCA	BCAC	8	3
BCom (Finance and Taxation)	BCFT	59	54
BCom (Computer Applications)	BCCA	38	32
MA English	MAEN	24	18
MA Malayalam	MAMA	15	9
MA Hindi	MAHN	12	11
MSc Mathematics	MSMA	15	13

MSc Statistics	MSST	14	12
MSc Physics	MSPH	18	15
MSc Chemistry	MSCH	20	14
MSc Botany	MSBO	12	11
MSc Biostatistics	MSBS	15	15
MSc Applied Microbiology	MSAM	22	21
MSc Biotechnology	MSBT	9	7
MA Economics	MAEC	23	18
MA History	MAHI	15	10
MA Political Science	MAPS	23	22
MCom	MCOM	15	13
<b>Total</b>		<b>755</b>	<b>566</b>

## SOCIO-CULTURAL ACTIVITIES

### ComArena 9.0

The 9th edition of South Indian Commerce & Management Fest - ComArena 9.0 was successfully organised by the Department of Commerce on 7 & 8 August 2015. The fest was inaugurated by Dr. Sunny Joseph, Principal, at a meeting presided over by Sri. Jose Mampampil, President of the Commerce Alumni Forum. Winners were awarded cash prizes worth Rs. 1,11,000/- sponsored by the Commerce alumni and other industrial well wishers, along with certificates and trophies. The overall championship was bagged by St. Berchmans College, Changanassery. The programme was coordinated by Prof. K. V. John (Head of the Department), Prof. Bobby Simon (Director of Commerce Forum), Prof. Jinu Mathew and Prof. James Varghese.

### Scientia 2 - Intercollegiate Science Quiz Competition

*Scientia 2* - Intercollegiate Science Quiz Competition was organised by the Department of Chemistry on 9 March 2016. Dr. G. D. Gem Mathew was the quiz master. The team representing Farook College, Kozhikode; Government College, Kottayam and Pushpagiri Medical College, Thiruvalla won the first, second and third prizes respectively. Principal Dr. Sunny Joseph distributed trophies, cash prizes and certificates to the winners. Dr. Thomas V. Mathew was the convener of the programme.

### Eco-Fiesta 2016

Eco-Fiesta 2016, an All Kerala intercollegiate competition was organised by the Economics Association of the College on 10 February 2016. The Fiesta was inaugurated by Shri. Sathish Bino IPS, District Police Chief, Kottayam, at a meeting presided over by Dr. Sunny Joseph, Principal. Arthanititbida (The mega economics quiz), Affische (The poster designing event) and Aitigh (The Debate) were the major events of this Fiesta. Attractive cash prizes were awarded to the winners of the competitions.

### LUMINAIRE 2K16

The Department of English organised an Intercollegiate Literary and Cultural Festival titled LUMINAIRE 2K16 on 11 February 2016 to crown the golden jubilee celebrations of the postgraduate programme in English and to commemorate the 400th death anniversary of

William Shakespeare. The events conducted were *60' secs of Life* (Short film), *Beaux Arts* (Graffiti), *Cine Arts* (Short film), *Me & Myself* (Best Personality), *Fotografia* (Photography), *La DANZA* (Dance) and *Stage Craft* (Drama). Attractive cash prizes were awarded to the winners. The programme was co-ordinated by Prof. Wiliam Zacharias (Plead of the Department), Prof. Jishnu Venugopal (Director, English Association) and Prof. Gibin Raja George.

#### **Prof. A. V. Varkey Memorial Intercollegiate Physics Quiz Competition**

The second Prof. A. V. Varkey Memorial Intercollegiate Physics Quiz Competition was organised by the Department of Physics on 16 February 2016. 17 teams representing various colleges from all over Kerala actively participated in the quiz competition. Prof. Augustine J. Edakkara was the quiz master. The team of Ms. Steffy Jose and Ms. Ann Maria Shaji representing Alphonsa College, Pala won the first prize. Principal Dr. Sunny Joseph distributed trophies, cash prizes and certificates to the winners.

#### **Prof. K. Ramakrishna Pillai Memorial Problem Solving Contest**

The 14th All Kerala Prof. K. Ramakrishna Pillai Memorial Problem Solving Contest for undergraduate students in Statistics was held on 9 March 2016. 14 teams representing various colleges participated. Dr. Seemon Thomas and Dr. Deemat C. Mathew conducted the contest. Cash prizes of Rs. 2000/-, Rs.1500/- and Rs.1000/- were won by teams from Nirmala College, Muvatupuzha; Alphonsa College, Pala and KE College, Mannanam respectively. Dr. Jicssy Issac, Associate Professor in Statistics, Assumption College, Changanassery gave away the prizes at the valedictory function arranged for commemorating late Prof. K. Ramakrishna Pillai.

#### **Prof. Mathew T. Matheikal Intercollegiate Maths Quiz**

The Department of Mathematics organised the Prof. Mathew T. Matheikal Intercollegiate Mathematics Quiz Competition on 25 January 2016. Twelve teams representing colleges from all over Kerala participated in the quiz competition. Principal Dr. Sunny Joseph distributed trophies, cash prizes and certificates to the winners. The programme was co-ordinated by Prof. Tommy Thomas.

#### **Hindi Day and Fortnight Celebrations**

The Department of Hindi celebrated Hindi Day with much enthusiasm. Competitions in Hindi elocution, Hindi recitation etc. were held for the higher secondary and college students in the forenoon of 23 September 2015. In the afternoon, a meeting was held in which Dr. Mahesh Chandra, renowned Hindi writer from Meerut, U. P, was the chief guest. Dr. Sunny Joseph, the Principal presided over the meeting. Rev. Dr. James John Mangalathu, the Vice- Principal offered felicitations. Dr. V. V. Georgekutty Vattoth, the HoD, welcomed the gathering and Dr. Mathew Thomas proposed the vote of thanks. Cash awards to the winners were distributed by the chief guest. A photo exhibition on Hindi writers also was held during the fortnight.

#### **Photo Exhibition on Vaikom Muhammed Basheer**

A photo exhibition titled 'Malayalathinte Basheer' was organised by the Department of Malayalam on 18 August 2015. The photo exhibition was inaugurated by Principal Dr. Sunny Joseph. It showcased the important events in the life of late Vaikom Muhammed Basheer, the noted Malayalam writer.

## Book Release

'Padangal - Puthuvayanakal', a book authored by the research scholars of the Department of Malayalam was released by Rev. Dr. Baby Sebastian Thonikuzhy, Principal, St. George College, Aruvithura by handing over the first copy to the Principal, Dr. Sunny Joseph. Dr. Davis Xavier and Dr. Sabu De Mathew offered felicitations.

## SPORTS PROFILE

### Integrated Sports Complex Inaugurated

The legacy of sports achievement of our institution is underlined by the completion of the mega project of sports infrastructure - the Integrated Sports Complex - with the partial financial assistance of Rupees one crore seventy lakhs from the University Grants Commission. The project was completed at a total cost of Rupees eleven crores. The Management, teachers and private individuals contributed substantially for the successful completion of the project. The Sports Complex consists of a Multipurpose Indoor Sports Training Facility with maple wood flooring which can accommodate six badminton courts at a time. An Olympic-standard Swimming Pool with latest water purification system, a kid's pool and a walkers' lane are the other facilities developed as part of the Integrated Sports Complex. The entire project was completed during this academic year.

The blessing ceremony of the St. Thomas College Integrated Sports Complex was held at 1.30 p.m. followed by the inaugural function in the new Indoor Stadium on 28 February 2016. His Excellency Mar Joseph Kallarangatt, Bishop of Palai and Patron of the College, blessed the Sports Complex. Sri. Oommen Chandy, Hon'ble Chief Minister of Kerala, inaugurated the Indoor and Swimming facilities at a public meeting presided over by H. E. Mar Joseph Kallarangatt. Mar Jacob Muricken, Auxiliary Bishop of Palai and Manager of the College, delivered the introductory remarks. Mar Joseph Pallikaparampil, Bishop Emeritus of Palai and former Patron, delivered the words of blessing and inaugurated the Walkers' Lane. Sri. K. M. Mani, former Finance Minister, Govt, of Kerala and MLA of Pala, delivered the keynote address.

The Complex includes

- **Olympic-Standard Swimming Pool**

Today we have a new Swimming Pool of International Standards -50x21 metres with a uniform depth of 1.8 metres and 8 lanes. All the students of this college and neighbouring institutions and even students of primary schools in and around the Taluk can be taught survival swimming. Through mass participation, talent can be spotted early and training can be given systematically to bring laurels to the institution as well as to the country. Opportunities will be given to the public to participate in swimming programme as a regular exercise to maintain their health and thereby build a healthy nation. Swimming can work as a therapy for people of all age groups as well as for the differently-abled and make them cheerful.



- **Multipurpose Indoor Training Hall and Auditorium**

We have created a multipurpose training hall of 55 x 30 metres that can accommodate two thousand people and house an indoor training facility. A campus landmark, this stadium features historic revival architecture and will serve the college and the community as never before. The facility will be ideal for sports competitions, conferences or ceremonies that require accommodation for large groups in a dignified setting. State of the art wooden flooring (tongue and groove system) will be ideal for the conduct of competitions in badminton, basketball, table tennis, volleyball and netball. It has sufficient space for six badminton courts at a time. The indoor facility will be a great blessing for all athletes in the face of the vagaries of our monsoon which often disrupt training schedules.

### Performance at National Level

The details of the performance of our students at various National level competitions are mentioned below:

Sl. No.	Name	Event	Competition	Position
1.	Mr. Unias V	Athletics (TripleJump)	All India Inter University (Punjabi Uty, Patiala)	Silver
2.	Mr. Madhu S.	Athletics(1500 m)	All India Inter University (Punjabi Uty, Patiala)	Silver
3.	Mr. Anoop S.	Athletics(4x400 m)	All India Inter University (Punjabi Uty, Patiala)	Bronze
4.	Mr. Shafeeque	Athletics(4x400m)	All India Inter University (Punjabi Uty, Patiala)	Bronze

### Performance of the College at Inter-Collegiate Competitions

Sl. No.	Event	Competition	Venue	Position
1.	Athletics	M. G. University Intercollegiate	Maharajas College, Ernakulam	Winners
2.	Swimming	M. G. University Intercollegiate	M.A. College, Kothamangalam	Winners
3.	Power Lifting	M. G. University Intercollegiate	Newman College, Thodupuzha	Winners
4.	Water Polo	M. G. University Intercollegiate	M.A. College, Kothamangalam	Winners
5.	Cross Country	M. G. University Intercollegiate	S D College, Kanjirapally	Runners up
6.	Weight Lifting	M. G. University Intercollegiate	St Thomas College, Pala	Runners up

7.	Best Physique	M. G. University Intercollegiate	St Thomas College, Pala	Fourth
8.	Tennis	M. G. University Intercollegiate	R.S.C., Ernakulam	Fourth
9.	Volleyball	M. G. University Intercollegiate	M.A. College, Kothamangalam	Fourth

### **Bishop Vayalil Inter-Collegiate Volleyball Tournament**

The Bishop Vayalil Inter-collegiate Volleyball Tournament for Men and Women was organized in the month of February 2016, at the Jimmy George Stadium. The week-long extravaganza was attended by the best volleyball teams in the state. St. Thomas College team retained the men's trophy and Assumption College won the women's section.

### **Conduct of Inter-Collegiate Competitions & Other Events**

During the current year our College hosted the M.G. University Inter-Collegiate Power Lifting and Body Building competitions. 'Kabaddi Dhamaka'-an All Kerala Intercollegiate Kabaddi Tournament was organised by the Physical Education Department on 18 and 19 February 2016. An Adventure Camp for school children was organized by the Department during 23-25 August 2015. They also conducted a summer coaching camp for school children in the events of Athletics, Swimming, Badminton, Football, Tennis and Cricket during the summer vacation. More than 250 students successfully participated in the two-month long event.

### **The inter-departmental cricket tournament**

The inter-departmental cricket tournament conducted on 12 February 2016 was received with great enthusiasm and the active participation of 38 teams confirmed the success of the event.

## **CULTURAL PROFILE**

### **Arts competitions**

With an aim to enhance the diverse talents of the students, a variety of onstage and offstage competitions were conducted during the month of February 2016.

- Offstage competitions held from 1 to 5 February 2016 marked the onset of the arts competitions, *Arangu 2016*.
- An interdepartmental debate competition was organised on 5 February 2016 on the topic, 'Abhipraya Swathantryam Janadhipadhyaya Rajyathu'.
- A photography competition was conducted on 6 February 2016, while painting and drawing competitions were organised on 8 February 2016.
- An Inter-Collegiate PowerPoint presentation competition on the theme "Environmental Protection" was held on 25 February 2016 in which students from various colleges took part. The first and second prizes were secured by Alphonsa College and St. Thomas College respectively.



### **Inter-departmental quiz competition**

15 February 2016 witnessed yet another event rated high, an inter-departmental quiz competition in which about 250 students participated in the preliminary round. Five teams consisting of three members each were selected to the final round handled by the quiz master Prof. Tommy Cherian, former vice-Principal and Head of the Department of English.

### **Chess Club**

The activities of the chess club for the year 2015-2016 began from June 2015. During the academic year, Mr. Abhinand K. Varghese (II DC Physics), Mr. Ronald Scaria (II DC Physics), Mr. Kiran Antony (II DC Maths), Mr. Josekutty K.R. (II DC Botany) and Mr. Ajay Tijo (I DC Physics) were selected to the college chess team. Mr. Abhinand K. Varghese participated in the All Kerala Inter Collegiate Chess Competition for Golden Jubilee Memorial Ever Rolling Trophy held at Newman College, Thodupuzha on 9 February 2016. As part of 'ComAvid' programme, the Club organised a chess competition in association with Department of Commerce and Mr. Amal C. Shaji (III B.Com), Mr. Dalin Kurian (III B.Com) and Mr. Sony Dominic (III B.Com) secured the first, second and third prizes respectively.

Prof. Binoy Chacko, International FIDE rated player (Rating 1709) and Assistant Professor, Department of Commerce, is the Director of St. Thomas College Chess Club.

### **WOMEN'S FORUM**

The Women's Forum conducted several meetings of lady students of the College. It was intended to address various issues faced by them. The students were also offered counselling facilities, as and when needed.

- Orientation on special rules and privileges for safeguarding of women's rights, awareness programmes against sexual abuse, harassment, suicidal tendencies, classes on adolescent problems etc. were conducted.
- Special training in Karate, Yoga etc. were provided to lady students. Leadership training as well as personality development programmes were also organized.
- All students expressed their concern about atrocities against women and pledged to protect women from such evils.
- Cultural competitions were arranged at the department level to showcase their talents. Classes for lady students on home management, cooking, etc. were also arranged.
- A motivational talk was conducted on 15 January 2016. Prof. Deepthi John of Deva Matha College, Kuravilangad was the resource person.
- Many competitions such as poster designing competition, caption writing, 'Miss St. Thomas' etc. were also conducted for the development of extracurricular abilities of students.

## **Career Guidance and Counselling**

Career guidance and counselling activities were conducted during the current year also under the leadership of the career counsellors Dr. K.V. Thomas, Prof. Jogy Alex and Prof. Bobby Simon. Students and parents can contact them for information regarding career choices, professional courses, eligibility criteria, future prospects etc. They also conduct career orientation programmes and personality development classes. Coaching for bank tests, UGC-CSIR NET/JRF examinations are also offered. Career fests are organised every year. Finishing school programmes were organised for UG and PG students and proper career guidance was given to them.

Career orientation programme for III DC students was conducted on 15 December 2015 and career profile mapping programme on 21 January 2016. Classes on motivational training was conducted on 2, 4, 8, 9 and 23 February 2016 for different groups of students. A class on resume preparation was conducted on 27 February 2016 and a seminar on personality and soft skill development was conducted on 2 March 2016 for III DC students. Classes on numerical ability and corporate expectations were conducted on 5 March 2016 for UG and PG students. A seminar on 'What after +2' was conducted for the students of various schools and their parents on 12 April 2016. In addition, a number of programmes were organized at the Department level also.

## **Campus Recruitment Programme**

### **Anthem Biosciences Pvt. Ltd., Bangalore**

A campus recruitment programme for M.Sc. Chemistry students by Anthem Biosciences Pvt. Ltd., Bangalore, was organised under the auspices of the Department of Chemistry on 12 February 2016. Anthem Biosciences company offer research services in the areas of Chemistry and Biology for pharmaceutical, fine chemical, healthcare and material sciences world-wide. They also offer services in medicinal chemistry, process chemistry, analytical research and custom synthesis (GMP and non-GMP). Dr. Sunny Joseph, Principal, inaugurated the programme. Dr. Tom Thomas, Director—Chemistry of Anthem Biosciences Pvt. Ltd., gave an introduction about the profile and activities of the company. The function concluded with a vote of thanks by Prof. Bobby Simon, Director of the Career Guidance and Placement Cell of the College.

The inaugural function was followed by a comprehensive screening test for the candidates. Based on their performance in the screening test, 21 candidates were selected for personal interview. Finally, based on their performance in the interview, the following three candidates were selected for appointment as trainee scientists in synthetic organic chemistry.

### **Quintile Research Pvt. Ltd, Bangalore**

A campus placement drive for M.Sc. Statistics and Biostatistics students by Quintile Research Pvt. Ltd, Bangalore was organised by the Department of Statistics on 5 April 2016. 39 students from Nirmala College, Muvattupuzha, K.E College, Mannanam and

the host college participated in the programme. Finally, four students were selected for appointment.

## **EXTENSION AND OUTREACH PROGRAMMES**

### **Kidney Disease Testing Campaign**

Nowadays, kidney disease is a serious health concern in our society. The catastrophic part is that kidney faults are not apparent during the earlier stages. Symptoms are exposed only on later stages and remedies are usually unfeasible. Taking this scenario very seriously, the NSS Unit of the College in association with the Kidney Federation of India organised a kidney disease diagnosis camp. District-wise inauguration of the testing campaign was conducted by Honourable Minister Shri. K. M. Mani on 11 September 2015. Principal Dr. Sunny Joseph, Dr. Divya S. Aiyar, Assistant Collector, Kottayam, Pala Municipal Chairman Sri. Kuriakose Padavan, Sri. Tims Pothen Nedumpuram of Kidney Federation of India and others were present at the function.

### ***Sastrapadham* Science Magazine**

Five 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: August 2015 issue on 'Ecotourism' by Dr. Jomy Augustine (Dept, of Botany), January 2016 issue on 'Fractals' by Dr. Sunil C. Mathew (Dept. of Mathematics), February 2016 issue on 'Polymer Chemistry' by Dr. Sunny Kuriakose (Dept, of Chemistry), March 2016 issue on 'Science@2015' by Dr. G. D. Gem Mathew (Dept, of Chemistry) and May 2016 issue on 'Intellectual Property Rights' by Dr. Ison V. Vanchipurackal (Dept, of Physics).

### **Meenachil River Day Celebrations**

The history of St. Thomas College, Pala is always bound with that of river Meenachil. Today the condition of the river is very pathetic due to indiscriminate activities of waste disposal and sand mining. As an effort to save the river, NSS Unit of the College associated with various organisations to host a gathering on the banks of River Meenachil on 1 September 2015. Hon'ble Vice Chancellor of M G University, Dr. Babu Sebastian was the chief guest. Dr. SunnyJoseph, Principal; Sr. Jansamma James, Principal, Alphonsa College; Rev. Dr. James John Mangalathu, Vice Principal; Municipal Councillors of Pala Municipality, NSS Programme Officers and students of various colleges attended the meeting. In the meeting, the Hon'ble Vice Chancellor reminded the gathering of the necessity of keeping the river healthy and clean. Principal Dr. Sunny Joseph planted a bamboo sapling on the river bank.

## **NATIONAL SERVICE SCHEME (NSS)**

The National Service Scheme Unit of the College functioned fruitfully during the academic year 2015- 16. Volunteers got the chance to visit the adopted village - Kadanad

Grama Panchayath. Students could interact with the local people and also with elected representatives of the Panchayath. Volunteers also visited the adopted school, Govt. L. P. School, Kadayam, Palai South, for cleaning as part of Swachh Bharat Mission (SBM) and donated articles needed for students. Volunteers got a chance to visit ‘Mariyasadan’— a rehabilitation centre for mentally challenged and old aged people. Volunteers served for one week at ‘Mariyasadan’. That gave an opportunity for the volunteers to experience the ground realities of human life.

Since it is an all out educational venture, the NSS Unit of the College also organised various classes and awareness programmes on a range of topics such as personality development, first aid, organic farming, nature conservation, Blood donation camp etc. The volunteers got opportunities for multi dimensional development by their involvement in National Service Scheme activities.

## NATIONAL CADET CORPS (NCC)

### ARMY WING

- 60 cadets participated in International Yoga Day celebrations held at Deva Matha College, Kuravilangadu.
- CDT Harikrishnan M. attended Attachment Camp at Dehradun in July 2015.
- Independence Day was observed on 15 August 2015.
- CPL Lanson George, CPL Maheen K.S. & Vipin Joseph attended TSC camp at New Delhi in September 2015.
- UO Lijo George, SGT Jomy Thomas, SGT Christy Thomas K, CPL Arun K.A. and CPL Manukuttan K.M. participated in IGC RDC held at Trissur Police Academy in October. SGT
- Jomy Thomas was selected as All Kerala Army Wing Best Cadet.
- CDT Lovin George Kuruvila attended Adventure Mountaineering Camp at HMI Darjeeling in November 2015 and won gold medals in cross country race and best patrol competitions and silver medal in rock climbing.
- UO Harikrishnan M & CDT Thomas K.J. attended NIL at Alapuzha in Dec. 2015.
- UO Jomy Thomas attended Republic Day Camp in New Delhi in January 2016.
- Republic Day was celebrated on 26 January 2016. Cadets visited *Mariyasadanam* and helped the inmates.
- *Expedition - 2016* Annual Fest, Weapons Exhibition & War Demo were conducted in March 2016. The programme was inaugurated by DDG K& L Brigadier Sanal Kumar. The College NCC Unit won Inter - Company Guard competition held at St. George’s College, Aruvithura in May 2016.
- SUO Jomy Thomas participated in the youth exchange programme held at Kazakhstan in May 2016.

### NAVY WING

- 18 cadets participated in International Day of Yoga held on 31 June 2015 at S.B. High School, Changanacherry.
- Celebrated Environment Day on 5 June 2015 and Independence Day on 15 August

2015.

- Cadet Dawny Johnson participated in All India Nau-Sainik Camp held at Karwar in October 2015.
- Conducted trekking to Vagamon in October 2015.
- Cadet Emmanuel R Jose participated in All India Trekking Camp held at Kulamavu in October 2015.
- Cadets Jaison John, Rojan Roy and Santo Sali participated in RO IGC Camp in October 2015.
- Conducted blood donation camp on 1 October 2015.
- Cadets visited Cochin Naval Base in December 2015.
- 30 cadets participated in ATC camp held at Govt. College, Nattakom in December 2015. Our college secured overall second position and Cadet Dawny Johnson was selected as the Best Cadet.

### **National Science Day Celebrations 2016**

Every year the Research and Consultancy Service Cell (RACS Cell) organizes National Science Day (February 28) Celebrations. This year also National Science Day was celebrated solemnly with financial support from KSCSTE, Govt. of Kerala. The celebrations were held for two days. On the first day, viz. 22 February 2016, various competitions were organised to inculcate scientific temper and awareness among students. The valedictory function was on 24 February 2016. The departments which participated in this programme included Physics, Chemistry, Mathematics, Statistics, Bio-Statistics, Botany, Biotechnology and Applied Microbiology. Dr. Ginson P Joseph (Co-ordinator) and Dr. Jose K. Xavier (Director), RACS Cell, co-ordinated this year's Science Day Celebrations.

### **JOURNALS AND PUBLICATIONS**

#### **STARS (St. Thomas Academic and Research Studies)**

STARS is an interdisciplinary research journal of the College. It is published on a half-yearly basis in order to promote in-depth study in various disciplines and to disseminate the wealth of knowledge to teachers and research scholars in universities/colleges and other centres of research. From January 2007 onwards, the journal has been divided into two separate STARS volumes, viz. 'Sciences' (ISSN 0973-7804) and 'Humanities and Social Sciences' (ISSN 0973-7812). Conforming to truly international standards, STARS contains articles by renowned scholars from all over the world. Dr. Sunny Kuriakose (Department of Chemistry) is the Chief Editor of the 'Sciences' section and Dr. Stany Thomas (Department of Politics) is the Chief Editor of the 'Humanities and Social Sciences' section.

#### **Thomist**

The *Thomist*, the annual of the College, is meant to promote the creativity of the students. It contains stories, poems, articles etc. by the students and the faculty. Photographs of outstanding students and of various functions in the campus add glitter to it.

In addition, it contains the Principal's annual report, College Union report, and reports of other bodies in the College such as NSS, NCC etc. Prof. Princemon Jose (Department of Malayalam) is the Chief Editor. Dr. V.V. Georgekutty Vattoth (Department of Hindi) and Prof. Jishnu Venugopal (Department of English) are the Associate Editors, and Mr. Jayakrishnan R. is the Student Editor.

### **Textbook by Dr. Thomas V. Mathew**

Dr. Thomas V. Mathew (Dept. of Chemistry) has authored a text book titled Equilibrium and Kinetics (ISBN: 978-93-82956-55-6) for VI Semester B.Sc. Chemistry (core) course. In this text book, co-authored with Professors B.R. Puri, L.R. Sharma and K.C. Kalia, the subject matter has been presented in a systematic manner, clearly and exhaustively. The book has been published by the reputed national publisher Vishal Publishing Co., Jalandhar- New Delhi.

## **ALUMNI ACTIVITIES**

### **Alumni Day Celebrations**

The 65th Foundation Day and Alumni Day celebrations were celebrated with much pomp and glory on 15 September 2015. Important events of the day included reunion of the fifteenth batch of the College and presentation of the Founding Fathers Trust Awards. Sri. Alex Menampampil, Secretary of the Alumni Association, presented the annual report at a meeting presided over by Adv. K. T. Joseph, President of the Association. Sri. R C. Cyriac IAS (Former Chairman, Rubber Board) inaugurated the celebrations and delivered the George Thomas Kottukapally Memorial Lecture. The Founding Fathers Trust Award of the Alumni Association in honour of Mar Sebastian Vayalil (The Founder Patron of the College) for the Best Media Person was presented to Sri. Jose Panachippuram (Asst. Editor, *Malayala Manorama*) and Fr. Paulose Kunnathadam Memorial Literary Award was presented to Prof. Mathew Ulakamthara by Sri. R C. Cyriac IAS. Dr. Sunny Joseph, Principal welcomed the gathering and Dr. C. K. James, Treasurer, Alumni Association, proposed the vote of thanks.

### **All Kerala Intercollegiate Quiz competition**

An All Kerala Intercollegiate Quiz competition was organized on 16 January 2016 for promoting the intellectual growth of students and to preserve the precious memories of the founding fathers of the College. 80 students from different colleges participated in the quiz. It was inaugurated by Smt. R. Girija IAS, an alumna of the College. Prof. Tommy Cherian, Dr. G.D. Gem Mathew and Prof. Princemon Jose were the quiz masters. Government Victoria College, Palakkad team won the first prize of Rs. 5,000/- along with Menampampil Pappachen Memorial Trophy; the team representing University College, Kariavattom Campus won the second prize of Rs. 3,000/- and M. A. Zacharias Mannakkunnel Memorial Trophy, and Baselius College, Kottayam team won the third prize of Rs. 2,000/- and John Nechikkatt Memorial Trophy. The Rev. Fr. Jacob Thazhathel

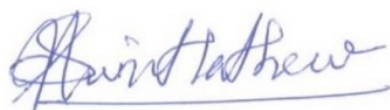


Award of Rs. 1000/- for the best quizzer was won by Mr. Abdul Wahid R A. of Government Victoria College, Palakkad.

### Departmental Alumni Associations

Statistics Alumni Association sponsors Prof. Ramakrishna Pillai Memorial Problem Solving Contest. The Biostatistics Alumni Association has instituted scholarships for meritorious poor students. Alumni meeting are held annually in the Department of Biotechnology and Applied Microbiology. Suggestions are collected from the alumni and changes are made as far as possible. Alumni meeting of the Department of Chemistry were held on 14 March 2016. Prof. R K. Mani Award was presented to Prof. K J. Scaria by Very Rev. Msgr. Philip Njaralakkatt.

Name: Dr. Sunil C Mathew



Signature of the Coordinator, IQAC

Name: Dr. Sunny Joseph



Signature of the Chairperson, IQAC  
(Principal)

Palai

