



# Bishop Moore College

## MAVELIKARA

संजय धोत्रे  
SANJAY DHOTRE



राज्य मंत्री  
इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी, संचार एवं  
मानव संसाधन विकास मंत्रालय  
भारत सरकार  
Minister of State  
Electronics & Information Technology,  
Communications and  
Human Resource Development  
Government of India

11<sup>th</sup> June, 2020

Dear Jacob Chandy ji, सादर प्रणाम,

It is a great pleasure to congratulate your institution for finding an eminent position in NIRF's India Rankings 2020. It is an acknowledgement of high academic standards set by the institution under your able leadership. Please convey my congratulations to each one of your team which has worked tirelessly to achieve this feat.

Academic Institutions are bedrock of nation building. Apart from academic excellence, they also play a major role in bringing out the best in every student, and responsible for his or her overall development. Therefore, I believe, apart from setting highest standards in academic excellence, it is also important to expand the role outside the academic sphere. This may include mentoring of other educational institutions in the neighbourhood, in improving their academic excellence. You may also think of sharing your expertise with other government/ non-government institutions to help them deliver their services in more effective manner, or to help the local community to address other problems like environmental degradation, water security, energy security etc. This on one hand will bring the academics closer to the real world issues, and on the other hand will actively encourage the students to put their brain and energy into such issues, making them active agents in building New India.

I once again extend my best wishes to you.

With regards,

  
(Sanjay Dhotre)

### PRINCIPAL

Bishop Moore College,  
NIRF Rank -76 in  
College Category  
Alappuzha, Kerala



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# NEWSLETTER 2020

Patron : †Most. Rev. Thomas K. Oommen • Chief Editor : Dr. Jacob Chandy • Editor : Dr. Nair Anup Chandrasekharan



**G**reetings to you all in the name of our Lord and Savior Jesus Christ!

It is with great pride that I am penning this message and it is indeed happy to address you through the News Letter of Bishop Moore College, Mavelikkara. My heart fills with immense joy as I witness the thriving of College into great heights. The institution has been standing as a great asset to the community. I hope and pray that the institution ascend greater apexes.

Education is the road to freedom; freedom from ignorance and blind believes that veiled the truth in the past. Martin Luther King, Jr. said, "The function of education is to teach one to think intensively and to think critically. Intelligence plus character - that is the goal of true education." It is the responsibility of educators to equip the souls in front of them as responsible and laudable citizens of the country, rather than conducting the process of education as mere, banking system.

The institution bears the passion of the person which the school is named after, who determined to wipe out the societal evils of the period. I praise God for the excellent services rendered by the Bishop Moore College, Mavelikkara to the wider society in and around Mavelikkara throughout the yester years.

Especially I acknowledge the academic and non-academic achievements of the College. Its academic excellence had been proved by securing four University toppers from the College. Based on the overall performance the NAAC accredited the College with A grade and the NIRF marked the college among the 100 best colleges in India with 76th rank. I am happy to know that more than 50 research papers are published in the international journals from the Bishop Moore College.

CSI Management strives to contain the inclusive nature in educational spectrum to all irrespective of cast, color, creed and sex. It makes a distinctive contribution to attain the goals of welfare and national integration. May God help each one of you to be agents of effective and meaningful transformation of the society!

At this time I remember with gratitude the pioneer Principals, Bursars, and the teachers of the College, who have rendered their services to the growth and development of this institution. I whole heartedly appreciate Prof. Dr. Jacob Chandy, the principal of the Bishop Moore College for his utmost dedication and hard work and also I congratulate the teaching and non- teaching staff for their sincerity. It is my earnest desire to see that the Bishop Moore College continues to promote spiritual, moral and cultural values in the mission of educating the young minds.

Yours sincerely,

With blessings,

†**Most. Rev. Thomas K. Oommen**  
CSI Moderator & Bishop

**E**ducation is essentially for all and is a unique investment. It refines perceptions that contribute to national cohesion, scientific temper and independence of mind and spirit - thus furthering the goals of socialism, secularism and democracy enshrined in our Constitution (Kothari Commission, 1964). Full human potential can be brought about only through proper education. It is essential for achieving economic growth, social justice and equality. According to the new Education policy (2020), universal quality education is the best way for developing and maximizing our country's rich talents and resources for the good of the individual, the society, the country and the world at large. NEP 2020 is being criticized that it would lead to the denial of social justice through its thrust given to privatization. A single regulator in all higher education institutions, except for legal and medical colleges, may reduce the involvement of the state in education. Hope that the central government will seriously look into the major criticisms expressed and make necessary amendments regarding the policy.

Being a higher education institution, Bishop Moore College is able to cater to the aspirations of the young generation. Students from the length and breadth of the state are choosing our college as their centre for attaining heights in the field of education. Credibility, integrity and quality of education are our strengths. These have been tried and tested for the last 55 years of our existence. While enjoying the NAAC 'A' grade from 2017, we were ranked 92nd in 2018, among the best hundred colleges in India by the National Institutional Ranking Framework, Ministry of Education, Government of India. This year, the rank has been upgraded to 76th, a notable achievement. I take this opportunity to congratulate all my dear colleagues who have cooperated wholeheartedly in this endeavor.

Our immediate aim is the next NAAC accreditation which is due in 2022. I request all to continue the process by proper documentation of all events and to cooperate with the IQAC in this regard. Attaining autonomy is a goal which needs to be achieved by the college. Our NIRF rankings, NAAC reaccreditation grade and consistent student excellence in curricular and non - curricular activities attest to the fact that we are one of the best colleges in the state. The college is expecting new courses to be sanctioned in M.Sc Zoology and M.A Economics. The plans for the construction of the new Library block and the renovation of the green house are under way. We have plans for gene pool conservation, food security and waste management. Covid19 pandemic might be seen as a stumbling block for academic activities but we see new possibilities and opportunities and are learning new ways to cope. On-line classes and alternate methods of teaching and learning have widened our horizons. Let us hope and pray for God's comforting presence in every situation that we go through and overcome them with His guidance.

**Dr. Jacob Chandy**  
Principal

## POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

### Science Academies' Refresher Course in Statistical Mechanics



Participants of the Science Academies' Refresher Course in Statistical Mechanics



Inaugural Function of the Refresher Course

The Science Academies' Refresher Course on Statistical Mechanics was held at Bishop Moore College, Mavelikara during **02-16 May 2018**. The course was organised jointly by the Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and the National Academy of Sciences India, Allahabad and hosted by the department of Physics, Bishop Moore College. 42 faculty involved in teaching undergraduate and postgraduate courses, selected from among the 210 applicants, were the participants. The course director was Prof. Somendra M Bhattacharjee (Professor, Institute of Physics, Bhubaneswar). Prof. K P N Murthy (Adjunct Professor, Chennai Mathematical Institute), Prof. Indrani Bose (Professor, Bose Institute, Calcutta), Prof. Varsha Banerjee (Professor, IIT, New Delhi), Prof. Parnigama Sen (Professor, Calcutta University, Kolkata) and Prof. Neelima Gupte (Professor, IIT, Madras) were the resource persons in addition to Prof. Somendra M Bhattacharjee.

### National Conference (NCRSM):

The Department of Physics organized a National Conference on Recent Advances in Spectroscopy of Advanced Materials during **25-26 September, 2018** at Bishop Moore College, Mavelikara. The conference was specifically meant for the local/regional students as well as college teachers, with a view to make the students gain in-depth knowledge in Vibrational Spectroscopy. Out of 60 persons registered for the lecture workshop, 34 participants were from institutions other than Bishop Moore College.

The conference was formally inaugurated by Prof. Young Mee Jung, Department of Chemistry, Kangwon National University, Korea. Dr. Jacob Chandy, Principal, presided over the meeting and Prof. I. Hubert Joe, Mar Ivanios College, Thiruvananthapuram felicitated the occasion. The Lecture Workshop had altogether seven lecture sessions. Prof. Young Mee Jung (Department of Chemistry, Kangwon National University, Korea), Prof. K. P. Rajappan Nair (Visiting Scientist, Institut für Physikalische Chemie und Elektrochemie, Wilhelm-Gottfried-Leibniz-Universität Hannover, Germany), Prof. I. Hubert Joe (Centre for Molecular

and Biophysics Research, Department of Physics, Mar Ivanios College, Thiruvananthapuram), Dr. R. Ida Malarselvi (Soft Matter Group, Centre for Advanced Material Research (CAMR) Research and Post Graduate Department of Physics, Dharmapuram Gnanambigai Government Arts College, Mayiladuthurai), Dr. R. Jayakrishnan (Photovoltaic Research Center, Department of Physics, Christian College, Chengannur), Dr. C. S. Praveen (Postdoctoral Associate Nanoscale Simulations ETH-Zurich, HIT G 33.2 Switzerland) and Dr. S. Muthu (Department of Physics, Arignar Anna Govt. Arts College, Cheyyar, Tamilnadu) were the resource persons. All the seven lecture sessions were informative as well as interactive. The participants were able to familiarize with the Recent Advances in the field of Vibrational Spectroscopy and Materials Science.



Prof. Young Mee Jung inaugurating the National Conference

### Winter School

The Department of Physics hosted the Winter School on "Materials and Molecular Simulations using Open Source Softwares: From Theory to Practice" during **16-22 Oct 2019**, including one session on Intellectual Property Rights (IPR). Dr. C. S. Praveen (DST-INSPIRE Faculty, International school of Photonics, CUSAT, Cochin), Dr. K. C. Bhamu, DST-SERB, National postdoc, CSIR-NCL, Pune) and Dr. Subramanyam Sappati (Post Doc Fellow, IISER, Thiruvananthapuram) were the resource persons. Faculty and researchers from all over India participated.



Winter School

### National Seminar

National Seminar on Scientific Solutions for Sustainable Rebuilding of Kerala in the Post Flood Scenario was organized jointly by the Department of Physics, IQAC and DBT STAR College Scheme in association with Directorate of Environment & Climate Change (DoECC), Govt. of Kerala from 09-10 Jan 2020. The National Seminar was organized to make the local community and students aware of the impact of climate change and factors contributing to the same and the steps to be immediately implemented in the local society to save our environment and stabilize our climatic conditions. Dr.M.C.Dathan (Scientific Advisor to the Chief Minister of Kerala) inaugurated the National Seminar and he



M. C. Dathan inaugurating the National Seminar



Medha Patkar Planting a Sapling

along with the famous activist Smt. Medha Patkar (Indian Social Activist, Founder member of Narmada Bachao Andolan) delivered the keynote talks. About 116 participants including Kudumbashree members and students from various colleges and host institution attended the two day seminar.

A hands on training session for Kudumbashree members, in association with Thazhakkara gramapanchayat, was led by Dr. Prakash G. Williams (Co-ordinator, Bhoomithrasena Club, Bishop Moore College, Mavelikara). Dr. K. R. Baiju (Associate Professor, School of Environmental Sciences, Mahatma Gandhi University, Kottayam), Dr. Abhilash S (Assistant Professor, Department of Atmospheric Science, Cochin University of Science and Technology, Cochin) and Shri. V.K. Madhusoodanan (Kerala Sasthra Sahitya Parishad) delivered lectures based on the focal theme. A powerpoint presentation competition was held during the national seminar for college students and a contributory oral presentation competition was conducted for research scholars and faculty.



Mr. R. S. Praveen Raj inaugurating the Workshop on IPR and SPSS

delivered the lecture on Intellectual Property Rights. Mr. Rasin, Assistant Professor of Statistics, St. Thomas College Thrissur, handled hands on session on the IBM SPSS® software platform.

### Workshop on IPR and SPSS:

Rev. Prof. K. C. Mathew Endowment Workshop on IPR and Quantitative Data Analysis using SPSS was organized by the Department of Physics during 21-22 March 2019. The Lecture was intended for Post Graduate students and research scholars. Mr. R.S. Praveen Raj, Senior Scientist, Research Planning and Business Development, NIIST, Thiruvananthapuram,



Hands on session of Shasthrajalakam

Lynnette Joseph (Assistant Professor, Department of Physics) led the Physics classes on the first day. Hands on session for students on various Physics experiments was conducted.

### Shasthrajalakam

On 8 November 2019, the Department of Physics hosted the first day of the science enrichment programme "Shasthrajalakam" of the State Institute of Education Technology, Government of Kerala, being hosted by Bishop Moore College from 8-10 November 2019. Prof. Javeesh Alex (Assistant Professor, Dept of Physics) and Dr.

### Resonance 2018

Dr. Tharanath R, Assistant Professor, Aquinas College, Edakochi, inaugurated the activities of the Physics Association Resonance 2018, in a meeting presided over by the Principal, Dr. Jacob Chandy on 17 September 2018. The function also witnessed the release of the manuscript "COSMOS" prepared by the students and the distribution of prizes for bright achievers of the previous academic year. Dr. Tharanath delivered a lecture on the topic "Physics of Black Hole". Mahadev A. V. of fifth Semester Physics was motivated enough by the lecture to carry out a project work on the topic and he completed the same under the guidance of Dr. R. Tharanath.



Release of manuscript

### Workshop on BSc Research Projects

This Workshop was conducted by Dr. Rajeshmon V G, St. Paul's College, Kalamassery on 10 October 2018. Five batch of Degree students were

trained on various experimental set ups to carry out research projects including Study of Dielectric properties of liquids, Study of Thermal Diffusivity of Materials, Absorption Spectroscopy of Solutions and solids, FTIR Spectroscopic study of samples and TGA DTA analysis of materials.

### AGNI 2018

The Department of Physics and the Department of Mathematics celebrated the 87<sup>th</sup> birthday of the Missile Man of India, Dr. A. P. J. Abdul Kalam, by hosting the event 'Agni 2018' on 15 October 2018. An exhibition, conducted as part of the event, provided information about Dr. Kalam and ISRO.

### Inauguration of Physics Association 2k19

Physics Association RESONANCE 2019 was inaugurated by Dr. Jijo P. Ulahannan, Government College, Kasargod. Prizes for meritorious students of the previous academic year of the Department were distributed. The inaugural session was followed by a lecture by Dr. Jijo P. Ulahannan on the topic, "The Future and Nature of Employment". Department level poster competition on the Topic "APJ's contribution to Space Mission of India" was conducted.



Dr. Jijo P. Ulahannan Inaugurating Resonance 2019

### Programme for the Promotion of Excellence Among Gifted Children

The Department of Physics became a part of Programme for the 'Promotion of Excellence among Gifted Children of Mavelikara Educational District', organized jointly by the Science departments of Bishop Moore College. This programme is the initiative of the Department of Education, Government of Kerala. 60 students from Mavelikara Educational District participated in the programme, which included an introduction to the world of Science Experiments by Dr. Lynnette Joseph and a visit to the various Science laboratories including the Physics Lab of Bishop Moore College.



Dr. Lynnette Joseph's Class on Superconductivity

### National Science Day Celebrations

The National Science Day Celebrations, SCI-ROSTRUM-20, was organized by the Department of Physics in association with the Science club, from 26 - 28 February 2020. The programme included two invited lectures by Dr. R B Rakhi (Ramanujan Fellow and Assistant Professor, Department of Physics, University of Kerala) and Mr. Unnikrishkrishnan Potty (Jagiellonian University, Krakow, Poland). All the activities were based on the focal theme "Women in Science". The programme was sponsored by KSCSTE and supported by DST.



Mr. Unnikrishkrishnan Potty delivering a lecture as part of Science Day celebrations

### PG & Degree Results:

Ms. Megha Murali secured First Rank in MSc Physics 2016-18 University of Kerala Examinations. The Department bagged 1 A+ grade and 8 A grades in the BSc pass out batch with a pass percentage of 61%, which was above the University Pass Percentage.



Megha Murali



Sam Saji Philip

### Placement

Sam Saji Philip of S6 Physics (2018-19) got placement in the Federal Bank.

### JAM Result & IIT Admission

The following students of S6 Physics qualified JAM entrance examination for admission to IITS.



Ashish George



Gowri S



Hridya R



Pranav Das H



Mahadev A V



Vishnu Biju



Sidharth K



Niranjan S



Anjana J Vadhyar



Devika M



Harsha S

Sl. No.	Name of Student	All India Rank	Batch	Year of Qualification
4	Pranav Das H	1203	2018-19	2020
5	Mahadev A V	1167	2018-19	2020
6	Vishnu Biju	1497	2018-19	2020
7	Sidharth K	951	2019-20	2020
8	Niranjan S	1144	2019-20	2020
9	Anjana J Vadhyar	5170	2019-20	2020
10	Devika M	6139	2019-20	2020
11	Harsha S	6223	2019-20	2020

### Paper Publication



Stephy Elizabeth George

Ms. Stephy Elizabeth George, M. Sc. Physics student (2017-19) published a paper entitled "Nonlinear Optical and Photocatalytic Dye Degradation of Co doped CeO<sub>2</sub> nanostructures synthesized through a modified combustion technique" in 'Ceramics International', an international peer reviewed journal included in UGC care list, with impact factor 3.45 & Scimago Journal Rank (SJR): 0.888- First quartile journal (i.e., Q1) has an SJR in the top 25% of journals



### INSPIRE Fellows

The following students received the INSPIRE fellowship from DST, Government of India. Alan M S, Bhagya S. Babu and Megha V. Karanavar (BSc Physics 2018 Admission) Devika B. Kumar, Harsha S. (BSc Physics 2017 Admission) Saranya S. Kumar, Nayana Babu (MSc 2019 Admission)



Alan M S



Bhagya S. Babu



Megha V. Karanavar

Sl. No.	Name of Student	All India Rank	Batch	Year of Qualification
1	Ashish George	256	2018-19	2019 (Pursuing M.Sc. Physics at IIT, Hyderabad)
2	Gowri S	562	2018-19	2019 (Pursuing M.Sc. Physics at NIT, Tiruchirappally)
3	Hridya R	918	2018-19	2019 (Pursuing M.Sc. Physics at IIT, Palakkad)



Devika B. Kumar



Harsha S.



Saranya S. Kumar



Nayana Babu

## ASPIRE Scholarship

Kripa A., full time research scholar of the Department, received ASPIRE scholarship of DCE, Govt. of Kerala for pursuing PhD. Devika B S, M.Sc Physics student (2017-19), received ASPIRE scholarship of DCE, Govt. of Kerala, for completing M.Sc. project.



Kripa A.



Devika B S

## Students Who Cleared NET/GATE

Name of student	Year and course of study	NET/GATE
Arunya Raj	BSc Physics (2015-18)	NET 2019
Muhammed Raees A	BSc Physics (2014-17)	NET 2019
Megha Murali	M.Sc. Physics (2016-18)	GATE 2020
Heera S	B.Sc. Physics (2014-17)	GATE 2020



Arunya Raj



Megha Murali



Muhammed Raees A



Heera S

## M.Sc. Summer Research Projects (2018-19)

Name of student	Institute
Vipul kumar V	Bhabha Atomic Research Centre, Mumbai
Devisaranya S	Bhabha Atomic Research Centre, Mumbai
Jyothish Raj J	RRI Bangalore
Gayatri S	NIT Kozhikode
Anjana K Nampoothiri	IIST Trivandrum
Sreelekshmi S	IIST Trivandrum
Anu J C	IISc, Bangalore
Aswathy Sugathan	IISc, Bangalore
Jibi Kunjumon	IISc, Bangalore
Devika B S	IIST, Trivandrum
Revathy N Rethnappan	UGC DAE, Kalpakkam
Amrutha Gayathri A	SRF Central Electro Chemical Research Institute, Karaikudi, Tamil Nadu



## Best Manager Award

Ms. Anju V Mathew, B.Sc. Physics student (2017-2020) won the second runner-up position in the Grand All Kerala Best Manager Contest.

## Sports Achievements

Academic year	Event	Team/Individual	Level	Student
2019-20	Intercollegiate Baseball Championship	Team	University	Mr. Bharath Krishnan P. R.
2018-19	National Softball Championship	Team	National	Savier S
2019-20	University Judo Championship	Individual	University	Akhila S.

## Scholarship

Department of Higher Education Scholarship for PG students was awarded to Vrinda Babu (MSc 2019 admission) and Devisaranya S (MSc 2019 Admission).

## MPhil Projects guided:

Academic Year	Name and Institute Name of MPhil student	Research Guide
2019-20	Jibi Kunjumon, SB College, Changanassery	Dr. D. Sajan
2018-19	Athira Maria Johnson, SB College, Changanassery	Dr. D. Sajan
	Athira S, SB College, Changanassery	Dr. Arun Aravind
	Rosmy Jose, SB College, Changanassery	Dr. Lija K. Joy
	Arun Raj R S, SB College, Changanassery	

## PhDs produced

Sasikala V., research scholar of the research Department of Physics under the guidance of Dr. D. Sajan was awarded PhD by the University of Kerala (2019). Ms. Jerin Susan John research scholar of the research Department of Physics under the guidance of Dr. D. Sajan was awarded PhD by the University of Kerala (2020)



Sasikala V



Jerin Susan John

## PhD Submitted

Jesby George, research scholar of the research Department of Physics working under the guidance of Dr. D. Sajan submitted her research thesis.

## Research Awards

Dr. Arun Aravind was allotted beam time for the project entitled "Investigations of swift heavy ion irradiations on structural, electrical and optical properties of RF-magnetron Cu sputter transition metal oxide thin films" by the Inter University Accelerator Centre, New Delhi.

Dr. Arun Aravind was awarded the visiting fellowship from Jawaharlal Nehru Centre for Advanced Research, Bangalore

## Guideship granted by the University of Kerala

- Dr. Lynnette Joseph (2018)
- Dr. Arun Aravind (2018)
- Dr. Lija K. Joy (2019)

## PROJECTS

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co-investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency
Growth, Optical studies and Vibrational Spectral Investigation of certain novel semi-organic NLO crystals for Laser applications	Dr.D.Sajan	2015	Rs.16,01,789	1-11-2015 to 30-10-2018 3 years	KSCSTE, Thiruvananthapuram
Growth, optical studies, Vibrational spectral investigations and hydrogen bond studies of semi organic NLO crystals for Laser applications	Dr.D.Sajan	2016	Rs.7,68,600	1-01-2016 to 31-12-2019 3 years	UGC-DAE Consortium for Scientific Research.
Growth and Characterization of Metal Oxide Thin Films and Nanostructures for Nonlinear and solar cell application	Dr. Arun Aravind	2017	Rs. 31,10,000	2017-2020 3 years	KSCSTE SARD

## Student Projects Under the SPYTiS-II Scheme

Sl. No.	Name of Student	Name of Teacher	Project Title	Sanction Letter No.
1	Hridya R	Dr. D Sajan	Green synthesis and characterization of ZnO nanoparticles using Averrhoa bilimbi leaf extract	12/SPYTiS-II/2018/KSCSTE dated 07.01.2019
2	Sreehari S	Dr. Lija K Joy	Substitution effect on the structural and optical properties of cobalt ferrite	13/SPYTiS-II/2018/KSCSTE dated 07.01.2019
3	Gowri S	Dr. Arun Aravind	Synthesis of ZnS nanoparticles by hydrothermal method	14/SPYTiS-II/2018/KSCSTE dated 07.01.2019
4	Merin Anna Jacob	Javeesh Alex	Investigation on structural and optical properties of Cerium oxide prepared by various method	15/SPYTiS-II/2018/KSCSTE dated 07.01.2019

## PUBLICATIONS IN SCI JOURNALS

Sl No.	Name of paper	Authors	Journal	Volume and Page number	ISSN
1	Quantitative structure and activity relationship on the biological, nonlinear and the spectroscopic properties of the Schiff base material: 4- chloro-4 bromobenzylidene	Nimmy L. John, Lija K. Joy, M. Saravana Kumar, S. S. Shaiju, A. Subashini & D. Sajan	Molecular Simulation	44,(2018) 40-54	ISSN: 0892-7022 & ISSN: 1029-0435
2	Twisted intramolecular charge transfer investigation of semi organic L-Glutamic acid hydrochloride single crystal for organic light-emitting and optical limiting applications	Lija K. Joy, Merin George, Javeesh Alex, Arun Aravind, D.Sajan, G. Vinitha	Journal of Molecular Structure	1156 (2018)733-744	ISSN: 0022-2860
3	An experimental and computational approach to electronic and optical properties of Diglycine barium chloride monohydrate crystal: Applications to NLO and OLED	Jesby George, D. Sajan, Javeesh Alex, Arun Aravind, G.Vinitha, R.Chitra	Optics & Laser Technology	105(2018) 207-220	ISSN: 0030-3992
4	Optical nonlinearity and charge transfer analysis of 4-[(E)-(2,4,6-Trinitrophenyl) ethylidene] benzonitrile adsorbed on silver nanoparticles: Computational and experimental investigations	Jerin Susan John, D. Sajan, Chandrabhas Narayana, T. Sundius	Optics & Laser Technology	107(2018) 454-467	ISSN: 0030-3993
5	Theoretical and experimental approach to the investigation of hyperpolarizability and charge transfer characteristics of NLO active 2,3,4,4,5-pentamethoxy chalcone with silver atoms adsorbed	Jerin Susan John, D. Sajan, Chandrabhas Narayana, Nithin Joy, Reji Philip	Optical Materials	84( 2018)409-421	ISSN: 0925-3467 (print); 1873-1252 (web)
5	Molecular docking and spectral analysis of (5,7-Dimethyl-2-oxo-2H-chromen-4-yl)-methyl diethylthiocarbamate : A potential bioactive agent	Bessy Mary Philip, Jerin Susan John, K. Mahesh Kumar, H. C. Devarajegowda, Jacob Chandy, D.Sajan	Chemical Physics Letters	711(2018)87-99	ISSN: 0009-2614
6	Growth, effect of protonation and hydrogen bonding interactions of L-Histidine nitrate monohydrate, a potential semi organic third order nonlinear optical material	Rejeena V. Rajan, Merin George, Javeesh Alex, D. Sajan, G. Vinitha	Optical Materials	86( 2018)198-212	ISSN: 0925-3467 (print); 1873-1252 (web)
7	Directional growth, physicochemical and quantum chemical investigations on pyridinium 2-carboxylate: 4-nitrophenol (P2C4N) single crystal for nonlinear optical (NLO) applications	V Sivasubramani, Jesby George, M Senthil Pandian, P Ramasamy, P Pounraj, KK Maurya, D Sajan	New Journal of Chemistry	42( 2018)4261-4277	ISSN: 1144-0546 (print); 1369-9261 (web)

SI No.	Name of paper	Authors	Journal	Volume and Page number	ISSN
8	Study on growth, electronic structure, topological and nonlinear optical properties of semi organic material sodium sulfanilate dehydrate	BS Arun Sasi, S Alen, Lija K Joy, D Sajan, C James	Journal of Materials Science: Materials in Electronics	29, (2018)17887–17902	ISSN: 0957-4522 (print); 1573-482X (web)
9	Synthesis, crystal structure, optical and third order nonlinear optical properties of phosphoric acid pyridine-1-ium-2-carboxylate	S. Gowri · T. Uma Devi · S. Alen · D. Sajan · C. Surendra Dilip · G. Vinitha	Journal of Materials Science: Materials in Electronics	29, (2018)19710–19723	ISSN: 0957-4522 (print); 1573-482X (web)
10	Vibrational spectra, dielectric properties, conductivity mechanisms and third order nonlinear optical properties of guanidinium 4-aminobenzoate	Jesby George, V. Sasikala, Lija K. Joy, D. Sajan, T. Arumanayagam, P. Murugakoothan, G. Vinitha	Optical Materials	89( 2019) 48-62	ISSN: 0925-3467 (print); 1873-1252 (web)
11	Effect of niobium doping on the dielectric and nonlinear current–voltage characteristics of Na <sub>0.5</sub> La <sub>0.5</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics	A. K. Thomas, Merin George, D. Sajan, Kevin Abraham, Jini Thomas, K. V. Saban	Optical Materials	89( 2019) 299-307	ISSN: 0925-3467 (print); 1873-1252 (web)
12	Growth and combined experimental and quantum chemical study of glycy-L-Valine crystal	C. Usha, R. Santhakumari, Lynnette Joseph, D. Sajan, R. Meenakshi, A. Sinthiya	Heliyon	5(2019,) e01574	ISSN :2405-8440
13	Enhanced NLO activity of organic 2-methyl-5-nitroaniline crystal: Experimental and computational investigation with and without silver addition	Jerin Susan John, D. Sajan, P. Prabukanthan, Reji Philip, Nithin Joy	Optics & Laser Technology	113(2019) 416-427	ISSN: 0030-3993
14	Experimental and theoretical studies on the bifurcated hydrogen bonded NLO active material of pure and crystal violet dye-doped L-argininium bis dihydrogen phosphate	Reena Ittyachan, Jesby George, Ligi Cherian, Lynnette Joseph, D. Sajan, G. Vinitha	Optical Materials	92( 2019) 111-124	ISSN: 0925-3467 (print); 1873-1252 (web)
15	Proton-induced intermolecular charge transfer in Picolinium Tartrate Monohydrate crystal for OLED and nonlinear optical applications: A combined experimental and computational study	Jesby George, D. Sajan, Javeesh Alex, G. Vinitha	Dyes and Pigments, Volume 165, June 2019, Pages 239-248	165(2019)239-248	ISSN: 0143-7208
16	Growth of Morpholin-4-ium hydrogen tartrate single crystal for optical limiting application	Jesby George, Merin George, Javeesh Alex, D. Sajan, R. Chitra	Optics & Laser Technology	119(2019) 105647	ISSN: 0030-3993
17	Growth, structural, third order nonlinear optical properties, dielectric properties, conductivity mechanisms and spectroscopic characterization of a luminescent material trans-diaqua-bis(pyridine-2-carboxylato)-cobalt(ii) dihydrate for optoelectronic applications	Rejeena V. Rajan, S. Gowri, N. Manopradha, D. R. Leenaraj, Lija K Joy, D. Sajan	Optics & Laser Technology	119(2019) 105664	ISSN: 0030-3993
18	Molecular structure, NLO properties and vibrational analysis of L-Histidine tetra fluoro borate by experimental and computational spectroscopic techniques	Nimmy L. John, Sunila Abraham, D. Sajan, Reji Philip, R. Chitra	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy,	226(2019) 117615	ISSN: 1386-1425
19	Computational analysis of vibrational spectroscopic properties and hyperpolarizability of silver adsorbed organic molecule, N,N' Dimethyl Urea Ninhydrin	Jerin Susan John, D. Sajan	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy,	(2019) 117698	ISSN: 1386-1425
20	Experimental and DFT/TD-DFT approach on photo-physical and NLO properties of 2, 6-bis (4-Chlorobenzylidene) cyclohexanone	Jesby George, A. K. Thomas, D. Sajan, S. Sathiyamoorthi, P. Srinivasan, Nithin Joy, Reji Philip	Optical Materials	100( 2020) 111-124	ISSN: 0925-3467 (print); 1873-1252 (web)
21	Synthesis, physicochemical properties and third-order optical nonlinearities of cadmium (II) dibromide I - Proline monohydrate for optical limiting application	Rejeena V. Rajan, Lija K. Joy, D. Sajan, A. K. Thomas, S. Sathiskumar, T. Balakrishnan, G. Vinitha	Journal of Molecular Structure	1204, ( 2020)109620	ISSN: 0022-2860
22	Crystal growth, dielectric studies, charge transfer and ionic hydrogen-bonding interactions of L-arginine hydrobromide monohydrate single crystal: A novel third order nonlinear optical material for optoelectronic applications	Jerin Susan John, M. Saravana Kumar, Lija K. Joy, D. Sajan, G. Vinitha, N. Vijayan, Nimmy L. John	Optics & Laser Technology	125(2020) 106043	ISSN: 0030-3993
23	Growth and dielectric studies of toluidine tartrate single crystals: A novel organic NLO material	J. Balaji, P. Srinivasan, S. Prabu, Merin George, D. Sajan	Journal of Molecular Structure	( 2020)127750	ISSN: 0022-2860



SI No.	Name of paper	Authors	Journal	Volume and Page number	ISSN
24	Adsorption studies of hydrothermally synthesized tin oxide nanoparticles	S. Athira, D. A. Nayana, K. K. James and Arun Aravind	AIP Conference Proceedings	2082, 030008 (2019)	
25	Synthesis and Third Order Optical Nonlinearity Studies of Toluidine Tartrate Single Crystal supported by Photophysical Characterization and Vibrational Spectral Analysis	Merin George, J. Balaji, D. Sajan, Priya Dominic, Reji Philip, G. Vinitha	Journal of Photochemistry and Photobiology A: Chemistry	393 (2020) 112413	ISSN: 1010-6030
26	Nonlinear optical and photocatalytic dye degradation of Co doped CeO <sub>2</sub> nanostructures synthesized through a modified combustion technique	Stephy Elizabeth George, Merin George, Javeesh Alex, Lija K. Joy, Arun Aravind, D. Sajan, Abhishek Thakur, Shamima Husain, G. Vinitha	Ceramics International	In press	ISSN: 0272-8842
27	Computational analysis of vibrational spectroscopic properties and hyperpolarizability of silver adsorbed organic molecule, N,N' Dimethyl Urea Ninhydrin	Jerin Susan John, D. Sajan	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	Volume 2285 March 2020 Article 117698	ISSN: 1386-1425
28	Molecular structure, NLO properties and vibrational analysis of L-Histidine tetra fluoro borate by experimental and computational spectroscopic techniques	Nimmy L. John, Sunila Abraham, D. Sajan, Reji Philip, R. Chitra	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	Volume 2265 February 2020 Article 117615	ISSN: 1386-1425

### BOOK CHAPTERS PUBLISHED

SI No.	Author	Book	Chapter Name	Year of publication	ISBN	Publisher
1	Dr. D. Sajan	Methodologies and Applications for Analytical and Physical Chemistry	Green Synthesis and Characterization of Silver Nanoparticles	2018	Hard ISBN: 9781771886215, E-Book ISBN: 9781315159539	M G University Kottayam
2	Dr. D. Sajan	AIP Conference Proceedings	Adsorption studies of hydrothermally synthesized tin oxide nanoparticles	2082, (2019)030008	ISBN: 978-0-7354-1812-7	CUSAT, Cochin
3	Dr. D. Sajan	International Conference On. Advanced Nanomaterials (ICAN-2018) Proceeding	Nonlinear and structural analysis of crystal violet dye-doped L-argininium bis dihydrogen phosphate crystal	2018	ISBN: 978-93-5300-369-3	Department of Nanoscience and Technology at Alagappa University
4	Dr. D. Sajan	International Conference On. Advanced Nanomaterials (ICAN-2018) Proceeding	Vibrational and optical spectral features and nonlinear optical studies of an organic NLO active crystals (E)-N-(4-chlorobenzylidene)-4-methylbenzenesulfonohydrazide	2018	ISBN: 978-93-5300-369-2	Department of Nanoscience and Technology at Alagappa University
5	Dr. D. Sajan	AIP Conference Proceedings	Experimental and Theoretical Investigations on Nonlinear Optical Properties of L-alanine Crystal: Z-scan & Hyperpolarizability Studies	2115, (2019)030415	ISBN: 978-0-7354-1851-6	Guru Jambheshwar University of Science and Technology, Hisar, India
6	Athira S (M.Sc. student)	Materials Today: Proceedings	Preparation of rGO-TiO <sub>2</sub> Composite and Study of its Dye Adsorption Properties	9, (2019) 61-69	ISSN: 2214-7853	Maharajas College Ernakulam
7	Dr. Arun Aravind	Nanostructured Metal Oxides and Devices	ZnO-Based Dilute Magnetic Semiconductors	2020	ISBN: 981153313X, 9789811533136	Springer

### ORIENTATION/REFRESHER COURSES/TRAINING PROGRAMMES/WORKSHOPS

Name of teacher	Name of Orientation/Refresher Course	Duration
Dr. D. Sajan	Science Academies' Refresher Course on Quantum Mechanics for Nuclear and Particle Physics	01-15 December 2018.
	6 days workshop on "Material Characterization: Structure, Spectroscopy and Microscopy"	19-24 August 2019
	UGC HRDC Refresher Course on Material Sciences	13-26 November 2019
	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
	Winter School on Materials and Molecular Simulations Using Open Source Softwares: From Theory to Practice	16-22 October 2019

Name of teacher	Name of Orientation/Refresher Course	Duration
Dr. Lynnette Joseph	UGC HRDC Workshop on MOOCS, E-content Development and Open Educational Resources	19 -21 March 2019
	Three Month Certificate Course in Molecular Docking and Drug Design, Department of Chemistry, Sacred Heart College (Autonomous), Thevara	21 September 2019 to 23 November 2019
	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
	Winter School on Materials and Molecular Simulations Using Open Source Softwares: From Theory to Practice	16-22 October 2019
	Faculty development workshop on teaching and learning of Functional Devices and Materials through Hands on Experience (TLFMD-2020), NIT, Warangal	09-14 March 2020
Mrs. Merin George	UGC HRDC Workshop on MOOCS, E-content Development and Open Educational Resources	19 -21 March 2019
	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
	Winter School on Materials and Molecular Simulations Using Open Source Softwares: From Theory to Practice	16-22 October 2019
Dr. Jerin Susan John	University and PG College MSc Teachers Training Program in Physics, Centre for Excellence in Science and Mathematics Education, IISc, Challakere Campus at Kudapura	07-27 June 2018
	Three Month Certificate Course in Molecular Docking and Drug Design, , Department of Chemistry, Sacred Heart College (Autonomous), Thevara	21 September 2019 to 23 November 2019
	Refresher Course in Material Science (Chemistry, Nano Science & Physics), UGC-HRDC, University of Calicut	03-16 December 2019
	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
	Winter School on Materials and Molecular Simulations Using Open Source Softwares: From Theory to Practice	16-22 October 2019
Dr. Arun Aravind	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
	DST-SERB School on "Advanced Functional Materials at Nano and Atomic Scale", IIT Goa	10 – 28 February 2020
	Winter School on Materials and Molecular Simulations Using Open Source Softwares: From Theory to Practice	16-22 October 2019
	Workshop on Condensed Matter and Materials Science, C-MET Thrissur	20– 22 September 2019
	WWS Master Mentor Training, St Teresa College for women, Ernakulum	5 September 2019
	Workshop on Material Characterization Techniques & Data Analysis, CUSAT	8 – 9 March 2019
	TEQIP-III sponsored faculty development programme on 'Functional Materials & Devices', NIT Calicut	10-15 September 2018
	Refresher Course on "Degree College Teachers Training Program in Physics", Talent development Centre, IISc Challakere Campus at Kudapura	22 November – 12 December 2018
Mr. Javeesh Alex	UGC HRDC Orientation Programme	13 November to 05 December 2019
	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
	Winter School on Materials and Molecular Simulations Using Open Source Softwares: From Theory to Practice	16-22 October 2019
Mrs. Ann Mary Jose	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
Dr.Lija K Joy	UGC HRDC Orientation Programme	23 August to 12 September 2019
	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
	Winter School on Materials and Molecular Simulations Using Open Source Softwares: From Theory to Practice	16-22 October 2019

## CONFERENCE PRESENTATIONS

1. Experimental Linear and Nonlinear Optical Studies and Theoretical Bonding Investigation on Addition of Silver Nanoparticles to an NLO Active Nitrostilbene Derivative, Jerin Susan John, D. Sajan, International Symposium on Advanced Functional Materials (ISAFM-2018), 12 October 2018, Mar Ivanios College Thiruvananthapuram.
2. Vibrational and Hyperpolarizability Analyses of Silver Added M5NA Molecule, Jerin Susan John, D Sajan, National Conference on Recent Advances in Spectroscopy of Advanced Materials NCRSM-2018, 25-26 September 2018, Bishop Moore College, Mavelikara.
3. Substitution Effect on the Structural and Optical Properties of Nickel Ferrite, Lija K Joy, R S Arun Raj and D Sajan, The 3rd International Conference on Optoelectronic and Nano Materials for Advanced Technology (iCONMAT - 2019) held on 2-5 January 2019
4. Effect of Sintering Temperature on the Structural and Optical Properties of Gallium Ferrite, R S Arun Raj, D Sajan and Lija K Joy, The 3rd International Conference on Optoelectronic and Nano Materials for Advanced Technology (iCONMAT - 2019) held on 2-5 January 2019
5. Structural and Magnetic Properties of Nickel Substituted Gadolinium Ferrite ( $Gd_{1-x}Ni_xO_3$ ), R S Arun Raj, Rosmy Jose, D Sajan and Lija K Joy, International Conference on Modern Trends in Molecular Magnetism -2019 (MTMM- 2019) held on 27-31, November 2019
6. Double Perovskite of Gd- Manganites Based

on Fe/Cr as Potential Multiferroic Material, Rosmy Jose, Athira Maria, R S Arun Raj, D. Sajan, Lija K Joy, International Conference on Modern Trends in Molecular Magnetism -2019 (MTMM-2019) held on 27-31 November 2019

7. Antibacterial Study of Hydrothermally Grown ZnO Nanostructures, Prathap Y, Kripa A, Arun Aravind, Dinesh Raj R, International Conference on Energy and Environment (ICEE 2019), 12-14 December 2019, TKM College of Arts and Science, Kollam.

8. Photocatalytic Degradation of Methylene Blue Dye by NiO Nanoparticles Grown by Hydrothermal Method, Lolly Maria Jose, D.A Nayana, Javeesh Alex, Arun Aravind, International Conference on Energy and Environment (ICEE 2019), 12-14 December 2019, TKM College of Arts and Science, Kollam.

9. Investigation of Antibacterial Effect of Zinc Sulphide Nanoparticles, C S Keerthana, S. Athira, Arun Aravind, A. C. Saritha, The International Conference on Optoelectronic and Nanomaterials For advanced Technology iCONMAT 2019, January 2-5, 2019

10. Antibacterial Study of ZnONanoparticles Grown by Hydrothermal Method, Anjana S Nair, Saritha A C, Sajan D and Arun Aravind, The International Conference on Optoelectronic and Nanomaterials For advanced Technology iCONMAT 2019, January 2-5, 2019.

11. Synthesis and characterization of ZnS nanostructures grown by Hydrothermal Method, RS Arun Raj , D. A. Nayana , D. Sajan and Arun Aravind, International Conference on Advanced

Nanostructures (ICAN-2018), 12-14 March 2018, Pathanamthitta, Kerala

12. Photocatalytic degradation of Malachite Green dye under sunlight irradiation using ZnO nanostructures, Roshin Anie Roy, Javeesh Alex and Arun Aravind, International Conference on Advanced Nanostructures (ICAN-2018), 12-14 March 2018, Pathanamthitta, Kerala

13. Enhanced photocatalytic activity of Cu doped ZnO nanostructures, Arun Aravind and R. S. Arun Raj, National Seminar on Thin Film Technology and Applications (TFTA-18), 15-17 February 2018, MG University, Kottayam, Kerala.

14. Growth of ZnO nanostructures by physical and chemical methods, Arun Aravind, D. A. Nayana, Arun Raj and M. K. Jayaraj, National Seminar on Contemporary Applications in Material Science & Technology (CAMST-18), 28 February 2018, Trichy, Tamilnadu.

15. Growth and Physicochemical properties of Organic NLO crystal Toluidine Tartrate, Merin George, J. Balaji, D. Sajan, International Conference on Optoelectronic and Nano Materials for Advanced Technology (iCONMAT-2019), 3-5 January 2019, Cochin University of Science and Technology, Cochin.

16. Spectroscopic and Physicochemical studies on organometallic crystal of Cadmium (II) Dibromide I-Proline monohydrate, D.Sajan, 8<sup>th</sup> International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS-2020), 24-28 February 2020, JNCASR, Bengaluru.

## DEPARTMENT OF ZOOLOGY



Association Inauguration by Dr. Shirly P. Anand



### Association Inauguration

Dr. Shirly P. Anand, Principal and Associate Professor in Zoology, T.K.M.M College, Nangiarkulangara inaugurated the association activities for the academic year 2018-19 and delivered a talk on “**Global Warming and Natural**

**Calamities**” on 26th September, 2018. A video show regarding “**Solid Waste Management**” was also arranged as part of this invited talk. More than 100 students attended this programme.

### Invited Talk



Invited Talk by Dr. Sheela Panicker Jacob



Dr. Sheela Panicker Jacob, Scientist (Stem Cell Neurobiology Department), ACS-ATCC, Gaithersburg, MD; delivered a talk on “**Induced Pluripotent Stem cell (iPSC) derived cells and 3D organoids**”. She discussed the emerging areas in Regenerative

Medicine and the application of iPSC’s in drug discovery. This talk was organized on 26th September 2018, as an interdisciplinary programme for V<sup>th</sup> Semester B.Sc. and III<sup>rd</sup> Semester M.Sc. Botany students.

### A talk on ‘Conservation of Wetland Ecosystem’

Prof. Vijo Thomas Kurian, Assistant Professor, Dept. of Zoology, C.M.S. College, Kottayam, talked on the topic “**Conservation of Wetland Ecosystem**” on 5th February 2019. He inspired the students to actively engage in wetland conservation practices. Students from various life science departments participated in this programme.



Invited talk by Prof. Vijo Thomas Kurian

### Invited Talk and Short Film Screening

Mr. S. Balasankar, Senior Forest Officer and Assistant Editor - “Aranyam” Wildlife magazine, inaugurated the Association activities of academic year 2019-2020 on 10<sup>th</sup> October 2019. He delivered a talk on “**Wildlife Conservation**” in the forenoon session. He enhanced the awareness of the students about the significance of biodiversity conservation and also pointed out what all steps have to be taken while going



Association Inauguration by Mr. S. Balasankar

for a field trip. In the afternoon, a short film "Forest and Wildlife" was screened.



Inauguration of ASPIC Club

### Seminar on Antibiotic Resistance

In association with Department of Botany and Biotechnology, a seminar on "Antibiotic Resistance" was held on 24<sup>th</sup> October 2019. The seminar dealt with the fallout of the excessive use of antibiotics. The awareness class was led by the faculty from ReAct Asia Pacific. In order to create awareness against the mindless use of antibiotics among the students and the local populace, the ASPIC Club was set up in the College.

### Shastra Jalakam - 2019

This programme was organised by the Research Department of Chemistry on 9<sup>th</sup> November 2019 for selected school children of Alappuzha District. In association with other Science Departments, the Department of Zoology provided experiential learning. It gave impetus to the development of scientific temper in young minds.



Shastra Jalakam 2019

### Installation of Mushroom Farm

The department has set up "Mushroom Farm" on December 2<sup>nd</sup> 2019. Mushroom cultivation was installed by the Vice Principal, Prof. Anu Mathews. The first fruit from the farm was offered to Rev. George Jacob (Chaplain). The farm has since then been generating good income.



Installation and Harvesting of Mushroom

### Training Workshop

In association with Department of Botany and Biotechnology, a hands-on training workshop on the various aspects relating to the cultivation, propagation and marketing of mushrooms in Kerala was conducted on 24<sup>th</sup> January 2020 under the leadership of ICAR faculty. It included a demonstration on the preparation of mushroom bags for indoor cultivation practices. The workshop was well appreciated by the participants and the faculty.



Educational Tour

### One Day Workshop for Gifted Children

The Department took initiative in arranging facilities for conducting the training programme for gifted children. This programme was organised by SIET in Bishop Moore College, Mavelikara on 15<sup>th</sup> February 2020. More than 45 students of VIII and IX Standard from 25 schools of Mavelikara Educational District participated in this one-day workshop. During this workshop these school children got an opportunity to visit the Museum of the Department and they also participated in mushroom cultivation training programme.



One Day Workshop for Gifted Children

and they also participated in mushroom cultivation training programme.

### New Faculty

Miss. Somi Cherian was appointed as a faculty on 1<sup>st</sup> June 2018.

### Achievements of the Teachers

#### Seminars/Conferences/Presentations

Dr. Deepthi G. R.

- Participated in National Seminar on "Future India: Science and Technology; Advances in Integrated Scientific Research" held at M.S.M. College, Kayamkulam from January 15-16, 2019.
- External Examiner for Biology Practical Examination of ISC XII at Bishop Moore Vidyapith, Kayamkulam on 11<sup>th</sup> February, 2019.
- Participated in National Seminar on "Nanoscience and Nanotechnology" organized by Post Graduate and Research Dept. of Chemistry, Bishop Moore College, Mavelikara from February 12-14, 2019.
- Participated and presented a paper in National Seminar on "Recent Trends in Bioremediation Protocols in Wetlands with special reference to Wetlands of South India" organized by Post Graduate and Research Dept. of Zoology, N. S. S. College, Pandalam from February 26-28, 2019.
- Participated in National Seminar on "Intellectual Property Rights" jointly organized by Patent Information Centre-Kerala/ Kerala State Council for Science, Technology and Environment and IQAC, St. Gregorios College, Kottarakara on 28<sup>th</sup> May, 2019.
- Participated in National Conference on "Bioradiance 2019- Toxicity: Current Perspectives" organized by Pushpagiri Research Centre, Thiruvalla and Bishop Moore College, Mavelikara at Pushpagiri Medical College Campus on 06<sup>th</sup> July, 2019.
- Participated in Workshop on "Innovative Teaching in Zoology and Integrative Biology -WIT 2019" organized by Department of Zoology and Inter University Centre for Evolutionary and Integrative Biology in association with BoS in Zoology and BoS in Integrative Biology at Department of Zoology, University of Kerala, Kariavattom on 16<sup>th</sup> November 2019.
- Participated in National Seminar on "Scientific solutions for sustainable rebuilding of Kerala in the Post Flood Scenario" organized by Post Graduate and Research Dept. of Physics, Bishop Moore College, Mavelikara from January 09-10, 2020.
- Participated in National Conference on "Rivers for Future" organized by Department of Aquatic Biology and Fisheries, University of Kerala and Centre for Innovation in Science and Social Action, Thiruvananthapuram at Department of Aquatic Biology and Fisheries, University of Kerala from February 05-07, 2020.
- Participated and presented a paper in National Seminar on "Current Trends and Advances in Biological Sciences" organized by Post Graduate Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikara from February 05-07, 2020.
- External Examiner for Biology Practical Examination of ISC XII at Bishop Moore Vidyapith, Kayamkulam on 10<sup>th</sup> February, 2020.

### Dr. Reeja Jose

- Participated and presented paper in National Seminar on “Future India: Science and Technology; Advances in Integrated Scientific Research” held at M.S.M. College, Kayamkulam from January 15-16, 2019.
- Participated in National Seminar on “Nanoscience and Nanotechnology” organized by Post Graduate and Research Dept. of Chemistry, Bishop Moore College, Mavelikara from February 12-14, 2019.
- Participated and presented a paper in National Seminar on “Recent Trends in Bioremediation Protocols in Wetlands with special reference to Wetlands of South India organized by Post Graduate and Research Dept. of Zoology, N. S. S. College, Pandalam from February 26-28, 2019.
- Participated in National Seminar on “Intellectual Property Rights” jointly organised by Patent Information Centre-Kerala/ Kerala State Council for Science, Technology and Environment and IQAC, St. Gregorios College, Kottarakara on 28<sup>th</sup> May, 2019.
- Participated in One day Training Programme in “Laboratory Animal Handling” organised by Pushpagiri Research Centre, Thiruvalla at Pushpagiri Medical College Campus on 05<sup>th</sup> July, 2019.
- Participated in National Conference on “Bioradiance 2019- Toxicity: Current Perspectives” organised by Pushpagiri Research Centre, Thiruvalla and Bishop Moore College, Mavelikara at Pushpagiri Medical College Campus on 06<sup>th</sup> July, 2019.
- Participated in National Workshop on “Recent Advancement in Molecular Immunology Research for Sustainable Aquaculture” organised by Department of Fish Processing Technology (Biochemistry), Kerala University of Fisheries and Ocean Studies from September 25-27, 2019.
- Participated in Workshop on “Innovative Teaching in Zoology and Integrative Biology -WIT 2019” organised by Department of Zoology and Inter University Centre for Evolutionary and Integrative Biology in association with BoS in Zoology and BoS in Integrative Biology at Department of Zoology, University of Kerala, Kariavattom on 16<sup>th</sup> November 2019.
- Participated and presented a paper in National Seminar on “Scientific solutions for sustainable rebuilding of Kerala in the Post Flood Scenario” organized by Post Graduate and Research Dept. of Physics, Bishop Moore College, Mavelikara from January 09-10, 2020.

• Participated and presented a paper in International Seminar on “Current status and challenges for Conservation and Sustainable use of Biodiversity” organized by Post Graduate and Research Dept. of Zoology and Bhoomithrasena Club, Sree Narayana College, Kollam from January 22-24, 2020.

• Participated and presented a paper in National Seminar on “Current Trends and Advances in Biological Sciences” organized by Post Graduate Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikara from February 05-07, 2020.

### Miss. Somi Cherian

- Participated and presented paper in National Seminar on “Future India: Science and Technology; Advances in Integrated Scientific Research” held at M.S.M. College, Kayamkulam from January 15-16, 2019.
- Participated in National Seminar on “Nanoscience and Nanotechnology” organized by Post Graduate and Research Dept. of Chemistry, Bishop Moore College, Mavelikara from February 12-14, 2019.

• Participated in National Seminar on “Recent Trends in Bioremediation Protocols in Wetlands with special reference to Wetlands of South India organized by Post Graduate and Research Dept. of Zoology, N. S. S. College, Pandalam from February 26-28, 2019.

• Participated in One day Training Programme in “Laboratory Animal Handling” organised by Pushpagiri Research Centre, Thiruvalla at Pushpagiri Medical College Campus on 05<sup>th</sup> July, 2019.

• Participated in National Conference on “Bioradiance 2019- Toxicity: Current Perspectives” organised by Pushpagiri Research Centre, Thiruvalla and Bishop Moore College, Mavelikara at Pushpagiri Medical College Campus on 06<sup>th</sup> July, 2019.

• Participated in National Seminar on “Scientific solutions for sustainable rebuilding of Kerala in the Post Flood Scenario” organized by Post Graduate and Research Dept. of Physics, Bishop Moore College, Mavelikara from January 09-10, 2020.

• Participated and presented a paper in National Seminar on “Current Trends and Advances in Biological Sciences” organized by Post Graduate Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikara from February 05-07, 2020.

### Participation in FDPs / Refresher Courses

#### Dr. Deepthi G. R.

• Participated in One Week Faculty Development Programme in Science (Philosophy of Science) organized by Kerala State Higher Education Council at School of Environmental Sciences, M.G. University, Kottayam from August 29 - September 02, 2019.

• Participated in UGC Sponsored Refresher Course in Environmental Sciences (Interdisciplinary) Conducted by UGC- HRDC, University of Kerala, Thiruvananthapuram from January 11 - 24, 2020.

### Paper Presentations

Faculty	Title of paper
Deepthi G.R.	A study on megafaunal diversity in Ayirmonthengu Mangrove Ecosystem, Kollam District, Kerala Ichthyofaunal Diversity of Kole Wetlands at Thrissur District.
Reeja Jose	A study on the Effect of Acids in Calcium Deterioration Biomonitoring of a selected pond ecosystem using aquatic insects Groundwater Quality Assessment in Selected Wards of Thekkekara Panchayath, Kerala Characterization of Soil Properties in Selected Areas of Mavelikara Taluk, Kerala Analysis of Water Quality and Application of Water Purification Methods in Selected Ward of Thekkekara Panchayath, Kerala
Somi Cherian	Study on the Odonate diversity in three selected habitats of Njeezhoor village, Kottayam

### Achievements of Students

Name	Class	Achievement
Nithya Krishnan	S2 Zoology	First prize in Exhibition competition on “ Worthy products from discarded plastics: Wealth from waste” conducted at ICAR-CPCRI, Kayamkulam on 20th June, 2018
Deepa Kusalán	S2 Zoology	First prize in Exhibition competition on “ Worthy products from discarded plastics: Wealth from waste” conducted at ICAR-CPCRI, Kayamkulam on 20th June, 2018
Gowry S.	S2 Zoology	First prize in Exhibition competition on “ Worthy products from discarded plastics: Wealth from waste” conducted at ICAR-CPCRI, Kayamkulam on 20th June, 2018
	S6 Zoology	Second prize in Intercollegiate Quiz Competition on Environment and Ecology ‘ QUIZENVIRO 2020’ organized by Alapuzha Natural History Society in association with Department of Zoology, T.K.M.M. College, Nangiarkulangara on 07th February, 2020

Name	Class	Achievement
Neenu Manohar	S2 Zoology	First prize in Exhibition competition on “ Worthy products from discarded plastics: Wealth from waste” conducted at ICAR-CPCRI, Kayamkulam on 20th June, 2018
Abhijith R.	S2 Zoology	First prize in Exhibition competition on “ Worthy products from discarded plastics: Wealth from waste” conducted at ICAR-CPCRI, Kayamkulam on 20th June, 2018
Vinayak Dev S.	S2 Zoology	First prize in Quiz competition on “ Boost up Coconut to beat out Plastics” conducted at ICAR-CPCRI, Kayamkulam on 20th June, 2018 Third prize in PowerPoint Presentation Competition conducted by Department of Zoology, T.K.M.M. College, Nangiarkulangara on 18th September, 2018
	S6 Zoology	Second prize in Intercollegiate Quiz Competition on Environment and Ecology ‘ QUIZENVIRO 2020’ organized by Alapuzha Natural History Society in association with Department of Zoology, T.K.M.M. College, Nangiarkulangara on 07th February, 2020
Grace Saji	S2 Zoology	First prize in Quiz competition on “ Boost up Coconut to beat out Plastics” conducted at ICAR-CPCRI, Kayamkulam on 20th June, 2018
Gayathri R.	S2 Zoology	First prize in Quiz competition on “ Boost up Coconut to beat out Plastics” conducted at ICAR-CPCRI, Kayamkulam on 20th June, 2018
Anusree U.	S2 Zoology	First prize in Project Proposal competition on “Save nature from plastics” held at ICAR-CPCRI, Kayamkulam on 20th June, 2018. Third prize in PowerPoint Presentation Competition conducted by Department of Zoology, T.K.M.M. College, Nangiarkulangara on 18th September, 2018
Anila S.	S2 Zoology	First prize in Project Proposal competition on “Save nature from plastics” held at ICAR-CPCRI, Kayamkulam on 20th June, 2018
Lakshmi Babu	S6 Zoology	Third prize in Intercollegiate PowerPoint Presentation Competition conducted by Dept. of Botany and Biotechnology, Dept. of Zoology and Dept. of Physics in association with Science Club, Bishop Moore College, Mavelikara on 7th February, 2019
Anagha K. T.	S2 Zoology	First prize in Intercollegiate PowerPoint Presentation Competition conducted by Dept. of Botany and Biotechnology, Dept. of Zoology and Dept. of Physics in association with Science Club, Bishop Moore College, Mavelikara on 7th February, 2019
	S3 Zoology	Participated in quiz competition conducted in the Conference “Bioradiance 2019: Toxicity- Current Perspectives” held at Pushpagiri Medical College Campus on 06th July, 2019
	S4 Zoology	First prize in Intercollegiate PowerPoint Presentation Competition conducted in connection with National Seminar on “Scientific solutions for sustainable rebuilding of Kerala in the Post Flood Scenario” organized by Post Graduate and Research Dept. of Physics, Bishop Moore College, Mavelikara on January 10, 2020.
Suby S. Thomas	S3 Zoology	Participated in quiz competition conducted in the Conference “Bioradiance 2019: Toxicity- Current Perspectives” held at Pushpagiri Medical College Campus on 06th July, 2019

## POST GRADUATE & RESEARCH Department of Chemistry

### Memorandum of Understanding

The Post Graduate and Research Department of Chemistry, Bishop Moore College, Mavelikara and Pushpagiri Research Centre Thiruvalla entered into a Memorandum of Understanding (MoU) for the development of scientific research programmes in the field of Bio-nanocomposites and biobased aerogels. The MoU was signed during the valedictory function of the three day National Seminar on Nanoscience and Nanotechnology on 14<sup>th</sup> February 2019. This agreement between the two institutions will be a stepping stone towards the development of novel materials with biomedical applications.



Signing of MoU

### PATENT



Ms. Siji K Mary



Ms. Rekha Rose Koshy



Dr. Laly A Pothen

A patent has been granted to Ms. Siji K Mary, Ms. Rekha Rose Koshy and Dr. Laly A Pothen (Rtd) for the invention entitled “CRYSTALLINE CHITIN NANO WHISKER AND COMPOSITES THEREOF” by The Government of India (Patent Number: IN 329388) in January 2019.

### Sasthra Jalakam

A three day Science Enrichment Program for high school students named SASTHRA JALAKAM 2019 sponsored by State Institute for Educational Technology, Govt of Kerala was conducted on 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> November, 2019.



SasthraJalakam 2019, being inaugurated by Prof. Sivadas, Chief Editor Labour India

## Talk on IPR

A talk on IPR was given by Mrs. Uma Bhasker & Mr. Anshal Sourashtri, Senior Consultants and Patent agents, Krishna & Sourashtri Associates, LLP, Bangalore on 19<sup>th</sup> July 2019.

## National Seminar

Three day National Seminar on “Nanoscience and Nanotechnology” cosponsored by DST and KSCSTE was conducted from 12<sup>th</sup> to 14<sup>th</sup> February 2019. Dr.Tressia Alias Princy Paulose was the convener of the seminar.

## BIORADIANCE

In association with Pushpagiri Research Centre, a National Conference **BIORADIANCE 2019** “Toxicity and Current Perspectives” was organized on 5<sup>th</sup> and 6<sup>th</sup> July 2019.



Inauguration of Bioradiance 2019

## Water Quality Analysis

The Pollution Control Board, Alappuzha in association with the Department of Chemistry conducted water quality analysis of the local water resources regarding their post flood status on 12<sup>th</sup> October 2018.

## National Science Day Celebrations



Dr. Prinson delivering the lecture

The National Science Day Celebrations, organised with the financial support of KSCSTE was inaugurated by Dr. Prinson, Assistant Professor, Dept. of Chemistry, Christian College, Chengannur on 27<sup>th</sup> February 2019. He delivered a lecture on the topic “Communicating Science for All”

## World Environment Day Celebration

The World Environment Day celebrations conducted with the financial support KSCSTE was arranged on 25<sup>th</sup> June 2019. The highlights of the programme were

- Inter Departmental Power Point Presentation Competition on the topic “Air Pollution and Climate Changes”
- Inter Departmental Essay Writing Competition on “Causes, Impact and Remedies of Air Pollution”
- A Science lecture by Shri. Nebu John, Asst. Professor, Dept of Chemistry, Marthoma College, Thiruvalla, on the topic “Clear Air for Healthy Tomorrow”



Inaugural Ceremony of World Environment Day celebrations



Shri. Nebu Thomas delivering the lecture

## Chemistry Association Inauguration

The activities of Chemistry Association for the academic year 2018-19 was inaugurated by Mr. A. V. Sathish, Scientific Officer, Kudankulam Nuclear Power Plant on 12<sup>th</sup> September 2018. He delivered a lecture on “Nuclear Energy, the Need, the Perception and the Reality”. The activities of Chemistry Association for the academic year 2019-20 was inaugurated by Dr. Ratheesh Krishnan, Assistant Professor, Govt. College for Women, Trivandrum and Research Officer at RUSA on 4<sup>th</sup> October 2019.



## Publications in Research Journals

Sl. No.	Title of the paper	Authors	Reference
1	Theoretical and experimental studies on theophylline release from hydrophilic alginate nanoparticles	Deepa Thomas, Vinish V. Nair, M.S. Latha and K. Kurien Thomas.	Future Journal of Pharmaceutical Sciences, 2019, 5:2
2	New-fangled sources of cellulose extraction: comparative study of the effectiveness of the effectiveness of Cissuslatifolia and Ficus-benghalensis cellulose as a filler	ArunimaReghunadhan, Nayana G. Sivan, Shibina S. K., Siji K. Mary, Rekha Rose Koshy, JanuszDatta and Sabu Thomas	Mater. Chem. Front., 2019 (3) 2025-2031
3	Synthesis and in vitro evaluation of alginate-4cellulose nanocrystals hybrid nanoparticles for the controlled oral delivery of rifampicin	Deepa Thomas, M.S. Latha and K. Kurien Thomas	Journal of Drug Delivery Science and Technology, 2018(46), 392-399
4	Alginate/Chitosan Nanoparticles for Improved Oral Delivery of Rifampicin: Optimization, Characterization and in vitro Evaluation.	Deepa Thomas, M.S. Latha and K. Kurien Thomas	Asian Journal of Chemistry, 2018, 30 (4), 736-740
5	Molecular docking and spectral analysis of (5,7-Dimethyl-2-oxo-2H-chromen-4-yl)-methyl diethylthiocarbamate : A potential bioactive agent	Bessy Mary Philip, Jerin Susan John, Mahesh Kumar, Davidson Sajjan	Chemical Physics Letters, 2018, (711), 87-99
6	Photoluminescence sensing of bilirubin in human serum using l-cysteine tailored manganese doped zinc sulphide quantum dots	K. Abha, John Nebu, J.S.Anjali Devi, R.S.Aparna, R.R.Anjana, A.O.Asawathy, SonyGeorge	Sensors and Actuators B: Chemical, 2019 (283), 300-308

## Books Edited

S. No.	Title of the Book	Editors	Publisher	Year
1.	Starch, Chitin and Chitosan Based Composites and Nanocomposites	Merin Sara Thomas, Rekha Rose Koshy, Siji K. Mary, Sabu Thomas and Laly A. Pothan	Springer (Springer Briefs in Molecular Science – Biobased Polymers)	2019
2	Biobased Aerogels: Polysaccharide and Protein-based Materials	Sabu Thomas, Laly A Pothan, Rubie Mavelil-Sam	Royal Society of Chemistry	2018

## Book Chapters

S. No.	Title of the Chapter	Title of the Book, Editors and Page Nos.	Authors	Publishers	Year
1	Polysaccharides and Protein-based Aerogels: An Introductory Outlook	Biobased Aerogels: Polysaccharide and Protein-based Materials; Sabu Thomas, Laly A Pothan, RubieMavelil-Sam Eds.; pp 1-8	RubieMavelil-Sam, Laly A. Pothan and Sabu Thomas	Royal Society of Chemistry	2018
2	Starch Based Aerogels: Processing and Morphology	Biobased Aerogels: Polysaccharide and Protein-based Materials; Sabu Thomas, Laly A Pothan, Rubie Mavelil-Sam Eds.; pp 42-53	Siji K. Mary and Laly A. Pothan	Royal Society of Chemistry	2018
3	Biodegradation of Polysaccharides and Protein Based Aerogels	Biobased Aerogels: Polysaccharide and Protein-based Materials; Sabu Thomas, Laly A Pothan, Rubie Mavelil-Sam Eds.; pp 151-157	Rekha Rose Koshy and Laly A. Pothan	Royal Society of Chemistry	2018
4	An overview of environmental management of different types of biomaterials	Handbook on modern environmental materials management; Chaudhery Mustansaar Hussain Ed.	Reshmy R, Eapen Philip, Raveendran Sindhu, Parameswaran Binod and Ashok Pandey	Springer International Publishing, ISBN-978-3-319-58538-3	2018
5	Possible strategies for hazardous waste management and legality	Handbook on modern environmental materials management; Chaudhery Mustansaar Hussain Ed.	Sherly Antony, Reshmy R, Raveendran Sindhu, Parameswaran Binod and Ashok Pandey	Springer International Publishing, ISBN-978-3-319-58538-3	2018

## Invited Talks

S. No.	Title of the Talk	Speaker	Venue
1	Synthesis and Application of Organic Salts and Complexes as Catalysts and Sorbents	Dr. Tressia Alias PrincyPaulose	Annual Chemistry Symposium 2019 (ACS 2019) conducted by the Department of Chemistry, CMS College, Kottayam on 21st March 2019 sponsored by the DBT Star College Scheme
2	Supramolecular Chemistry	Dr. Deepa Thomas	Post Graduate Department of Chemistry, St. Thomas College, Ranni on 7th August 2019.
3	Fabrication and Characterization of Starch-Chitin Nanocomposites	Ms. Siji K. Mary	6th National Conference on Biopolymers & Green Composites (BPGC 2019) organised by CIPET, Kochi on 18th and 19th, January 2019

## Conference Presentations

S. No.	Title of the Paper	Authors	Conference
1	Fabrication and Characterisation of Nano TiO <sub>2</sub> reinforced Soy Protein Green Composites	Ms. Rekha Rose Koshy	International Seminar on Recent Research and Developments in Material Science (RRDMS -2019) , All Saints College, Thiruvananthapuram on 15th November 2019. (She bagged the Best Paper presentation Award)
2	Natural Bond Orbital analysis on Bergapten	Ms. Bessy Mary Philip; Dr. D. Sajjan	International Seminar on Recent Research and Developments in Material Science (RRDMS -2019) , All Saints College, Thiruvananthapuram on 15th November 2019
3	A sensing Approach for the determination of TNT using L-methionine capped Manganese doped Zinc Sulfide Quantum dots	Dr. Abha K.	International Conference on photochemistry and Sustainable Energy (ICSG 2019), St. Michael's College, Cherthala on 16th-19th October 2019
4	Production of Furfural from Native Lignocellulosic Biomass	Dr. Tressia Alias Princy-Paulose	17th Prof. K. V. Thomas Endowment Seminar & Second International Symposium on New Trends in Applied Chemistry (NTAC 2019) organized by the Department of Chemistry, Sacred Heart College (Autonomous), Thevara, Kochi, on 14th – 15th January 2019
5	Synthesis, Characterization and in vitro evaluation of alginate-cellulose nanocrystals hybrid nanoparticles for the controlled oral drug delivery application	Dr. Deepa Thomas	17th Prof. K. V. Thomas Endowment Seminar & Second International Symposium on New Trends in Applied Chemistry (NTAC 2019) organized by the Department of Chemistry, Sacred Heart College (Autonomous), Thevara, Kochi, on 14th – 15th January 2019.



S. No.	Title of the Paper	Authors	Conference
6	Bovine Serum Albumin Functionalised Manganese Doped Zinc sulphide Based Fluorescent Nanosensor for Dopamine Sensing	Dr. Abha.K	International Conference on Nanoscience and Technology. (ICMST 2018). IIST, Thiruvananthapuram 101h-13th October 2018
7	A Sensing Approach for Dopamine Determination by Bovine Serum Albumin Functionalised Manganese Doped Zinc Sulphide Quantum Dots	Dr. Abha.K	International Conference on Sustainable and Green chemistry (ICSIG 2018). Maharajas College, Ernakulam 111h-12th December 2018
8	Theoretical and vibrational spectroscopic studies of Bergapten	Ms. Bessy Mary Philip, Dr. D. Sajjan	International Symposium on Advanced Functional materials organised by Pg and Research Department of chemistry, Mar Ivanios College, Thiruvananthapuram held on 12th October 2018



Ms. Abha.K



Ms. Deepa Thomas



Ms. Akhina

### Ph.D Awarded

- Ms. Abha.K was awarded the doctoral degree by the University of Kerala in 2018.
- Ms. Deepa Thomas was awarded the doctoral degree by the University of Kerala in 2020.
- Ms. Akhina (Guest Faculty) was awarded the doctoral degree by Mahatma Gandhi University in 2019.

### Trainings/Conferences/Workshops attended by the Faculty

- Ms. Abha.K and Ms.Linda E Jacob attended the Orientation Programme conducted by UGC-HRDC, University of Kerala,Thiruvananthapuram from 20-06-2018 to 17-07-2018
- Ms.Bessy Mary Philip attended Science Academies Refresher Course in Statistical Mechanics by Indian Academy of Science organised by Bishop Moore College from 02-05-2018 to 16-05-2018.
- Dr.Tressia Alias Princy Paulose participated in the Workshop conducted by the Academy of Chemistry Teachers, Kerala at University College, Thiruvananthapuram on 19<sup>th</sup> May 2018.
- Ms.Linda E Jacob participated in the seminar on "Smart Materials" organized by FathimaMatha National College,Kollam on 28<sup>th</sup> July 2018.
- Ms. Deepa Thomas attended Two days National Workshop on Computational Proteomic approaches in Drug discovery, Athmic Biotech Solutions Pvt. Ltd. Kalliyoor, Thiruvananthapuram on 26<sup>th</sup>Jan & 27<sup>th</sup> Jan, 2019.
- Ms. Deepa Thomas attended the Orientation Course for the Programme Officers of the National Service Scheme organised by Empanelled Training Institution for NSS,Rajagiri College of Social Sciences, Kalamassery from 8<sup>th</sup> to 14<sup>th</sup> January 2020
- Ms. Deepa Thomas participated in the National Service Scheme Programme Officers Meeting Organised by National Service Scheme,University of Kerala on 09<sup>th</sup> October 2019
- Ms.Siji K Mary, Ms. Deepa Thomas, Ms. Linda E Jacob, Dr. Tressia Alias Princy Paulose and Ms. Silpa Anu Mathew participated in the International Seminar on Recent Research and Developments in Materials Science(RRDMS 2019) organized by All Saints College,Thiruvananthapuram on 15<sup>th</sup> November 2019.
- Ms Siji K Mary, Ms Rekha Rose Koshy &Ms. Bessy Mary Philip participated in the workshop on M. Sc. Chemistry syllabus revision conducted on 29<sup>th</sup> June 2019 at S.N College, Kollam

### Student Projects sanctioned by KSCSTE

S. No.	Title of the Project	Principal Investigator	Student Investigator	Sanctioned Amount (Rs.)
1	Preparation and evaluation of Alginate/poly ethylene glycol/graphene oxide nano composite for detoxification of waste water	Dr. Deepa Thomas	Ms. FathimaNizar	10,000
2	Production of Furfural from Native Lignocellulosic Biomass	Dr. Tressia Alias PrincyPaulose	Mr. Arjun V. and Ms. Karishma Bose	10,000
3	Production of Levulinic Acid from Native Lignocellulosic Biomass	Dr. Tressia Alias PrincyPaulose	Ms. MidhunaUnni and Ms. KarishmaAbraham	10,000

### Student Projects under SPYTIS scheme

4	Synthesis of Bronsted Acidic Ionic Liquids (BAILs) for the production of furfural from rice husk	Dr. Tressia Alias PrincyPaulose	Ms. Arya G., Ms. Arya Rajesh, Ms.Cibiya Ann John, Ms.De-vika Rajan Pillai, and Ms. Parvathi G. Krishna	9,000
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### Student Achievements

- Merin K. Abraham, MSc (2017-19 Batch) secured 5<sup>th</sup> rank for MSc Analytical Chemistry in University of Kerala.
- Ms. Athira(2014-17 BSc Batch) and Ms. Sneha Sara (2013-16 BSc Batch) qualified UGC-CSIR NET Exams- 2019.

# POST GRADUATE DEPARTMENT OF ENGLISH

## English Association:

The activities of the English Association for 2018-19 were inaugurated by Mr. Vinu Abraham, the renowned short story writer, novelist, script writer and media person on 21<sup>st</sup> June 2018. Mr. Sonu D Daniel of II MA was selected as the English Association secretary.



Mr. Vinu Abraham

Association activities for 2019-20 were inaugurated by Dr. Teena Annah Thomas, Principal, BCM College, Kottayam on August 30<sup>th</sup>, 2019. Mr. Nikhil Santhosh and Ms. Ammju Krishna of II MA were selected as the English Association secretaries.



Dr. M Dasan with the Faculty

## Prof: P U Jacob Endowment Lecture

Prof. PU Jacob Endowment Lecture (2018-19) was delivered on 8 August 2018 by Dr. M. Dasan, Dean, Dept. of English and Comparative Literature, Kannur University, on "Dalit Literature: A Counter Cultural Discourse".

Prof. PU Jacob Endowment Lecture 2019-20 was given by Dr. Teena Annah Thomas on the topic "Multicultural Voices in Contemporary British Poetry" on 30 August 2019.

## International Conference

A three-day International Conference on Marxism was conducted from 7-9 January 2019, in collaboration with Sree Sankara University, Kalady, with the support of the Kerala State Higher Education Council and Litcritt. Prof Akeel Bilgrami, Sidney Morgenbesser Professor of Philosophy and Professor, Committee on Global Thought, University of Columbia inaugurated the conference and delivered the Erudite lecture on "Was Capitalism Ever Rational or Necessary?" Prof.(Rtd). Manas Ray, Professor, Cultural Studies,



Dr. Teena Annah Thomas

Centre for Studies in Social Sciences, Kolkata gave a talk on "Democracy Against Modernity: Thoughts on the Popular and the Political". Prof Vinay Lal, Professor, History and Asian American Studies, University of California, Los Angeles lectured on "Marx, Welfare, and the Right (not) to Work". The second Erudite lecture was delivered by Dr. Vijay Prashad, Executive Director, Tricontinental Institute for Social Research and Chief Editor, Left Word on "Marxism Outside Europe". Mr. Amith David and Mr. Premjith M R were the Conference Conveners.



Resource Persons of the International Conference

## Interdisciplinary Lecture Series



Dr. Jacob Chandy

To build awareness among students of the department on fields other than the chosen discipline, Inter disciplinary lecture series was launched, with the inaugural lecture by the Principal, Dr. Jacob Chandy, on the topic *Disobedient Cells* on 19<sup>th</sup> September 2018.

## Golden Jubilee Lecture Series Inauguration

The Department of English has initiated a Golden Jubilee Lecture Series to commemorate 50 years of its existence. KSHEC Erudite Scholar Prof. Simon During (Professorial Fellow, University of Melbourne) delivered the inaugural lecture on *Literary Academia 1968 to Today* on 20<sup>th</sup> September 2019. Mr. Amith David and Mr. Premjith M R were the conveners.



Prof. Simon During

## Poetry in Exile

Tenzin Tsundue, Tibetan poet and writer delivered a lecture on *Poetry in Exile* on November 1<sup>st</sup>, 2019. He shared his experiences and read poems from his book *Kora*. Dr. Nair Anup Chandrashekar was the convener.



Tenzin Tsundue with Team Bishop Moore

## Golden Jubilee Lecture Series

The second Golden Jubilee Lecture was delivered by Prof: Laura Mulvey, Senior Professor of Film Studies, University of London on February 12<sup>th</sup>, 2020. She talked on *Rereading 'Visual Pleasure and Narrative Cinema' through Vertigo (Alfred Hitchcock 1958)*. Mr. Amith David and Ms. Vidu Vijayan were the conveners.



Prof. Laura Mulvey with the Post Graduate Students of the Department

## Inter Department Football Quiz

During the season of Football World cup, Department of English conducted an inter-department football quiz on July 9<sup>th</sup>, 2018. Mrs. Julie Thomas, Asst: Professor, Department of English was the quiz master.



World Cup Football Quiz

## Orientation Classes

2018-19: BA English Sem 1 students were offered Orientation Classes by Dr. Anne Angeline Abraham (HoD), Mr. Amith David, Dr. Divya S and our alumnus Mr. Vinayak on 2, 3 August 2018.

## Biennale 2019

II MA English students visited Biennale 2019 at Kochi on 2nd February 2019.

## Laurel Literaria

2018-19: The annual Literary Fest of the Department, Laurel Literaria was conducted on 28th February and March 1, 2019. Fairy Tales was the topic of this year. The fest was inaugurated by Dr. Lal C.A, Associate Professor, School of Distance Education, and University of Kerala. Annual intercollegiate literary quiz was conducted and Dr. Lal C.A was the quiz master. Ms. Julie Thomas, Assistant Professor delivered a lecture on Fairy Tales. It was followed by a Musical Drama. Students performed a skit based on the fairy tale "Cinderella". There was also an exhibition based on Fa



The Teachers of the Department with Dr Lal CA

## Students' Tour

A five day tour was conducted for S6 BA English students from 21st to 25th March, 2019 to Bengaluru, Mysore, Coorg and Wayanad, under supervision of Mr. Premjith. M.R and Mrs. Anusha Das.

## ACHIEVEMENTS OF THE TEACHERS

### PhD Awarded

Ms. Suma Alexander, Assistant Professor in English was awarded her Ph.D from the University of Kerala for her research on "Narrativising History: Textual Continuum in the Writings of William Dalrymple.

### Session Chair/Paper Presentation in International Conferences

Dr Nair Anup Chandrasekharan chaired a session on 'Re/visioning Myth, Culture and Films' in an International Colloquium on Literature, Theory and History of Ideas organized by Department of English, MSM College, Kayankulam in collaboration with Centre for Culture Studies, University of Kerala and Littcrit supported by KSHEC from 3 to 5 October, 2019.

Dr. Nair Anup Chandrasekharan chaired a session and presented a paper titled 'Inevitability of Transdisciplinarity' at a National Sem-

inar organized by Dharmendrasinhji Government Arts College, Rajkot, Gujarat and Vedant Publications on 30<sup>th</sup> and 31<sup>st</sup> August, 2019. He was also a member of a panel discussion on the topic 'New Education Policy'.

Dr Nair Anup Chandrasekharan presented a paper titled 'Environmental Justice and Literature' at the International Conference on Ecology and Culture, jointly organized by the Department of English and FSLE-India from December 15 to 17, 2018 at Amrita Vishwa Vidyapeetham, Amritapuri, Kerala. He also Chaired a session in the Conference.

### Invited Talk

Dr Nair Anup Chandrasekharan offered a talk and conducted an interactive session on Soft Skills under the Walk With the Scholar scheme at SN College, Chempazhanthy, Thiruvananthapuram on 22/01/2020.

Dr Nair Anup Chandrasekharan offered a talk on 'How to Read a Text' under the Walk With the Scholar scheme at NSS College, Pandalam on 21/12/2019.

Dr Nair Anup Chandrasekharan offered an invited talk on the topic 'Deconstructing the Nuances of Verbal and Non Verbal Communication' to the students of Atmiya University, Rajkot, Gujarat on 01/09/2019.

Dr Nair Anup Chandrasekharan offered a talk to the students of Fatima Mata National College (Autonomous), Kollam, Kerala on 'Communication Skills' as a part of their add on course on 03/08/2019.

Dr. Divya S gave an invited talk on "Structure, Sign and Myth: A Rendezvous with Levi Strauss and Derrida", at the Seminar on "Theory: Paradigms and Interfaces", organized by the PG and Research Department of English, St. Thomas College, Kozhencherry (20 - 21 Jan 2020)

### Kerala Legislative Assembly- Language Expert

Dr Nair Anup Chandrasekharan served as a Language Expert for the National Legislators' Conference on 'The Challenges in the Empowerment of Scheduled Castes and Scheduled Tribes in Independent India' organised by the Kerala Legislative Assembly on 2<sup>nd</sup>, 3<sup>rd</sup>, 6<sup>th</sup> and 7<sup>th</sup> August, 2018 at the Legislature Complex, Thiruvananthapuram.



Kerala Legislative Assembly's 'Festival of Democracy'

Dr Nair Anup Chandrasekharan served as a Moderator and a Language Expert for the "Festival of Democracy" celebrations from 23<sup>rd</sup> to 25<sup>th</sup> February, 2019 at the Legislature Complex, Thiruvananthapuram.

## Resource Person at the Materials Production/Syllabus Revision Workshops

Dr Nair Anup Chandrasekharan was the Resource Person at the Three Day Workshop on Syllabus Revision for BA English and BA Communicative English organised by Board of Studies in English (Pass) University of Kerala, held at Institute of English, University of Kerala, Thiruvananthapuram on 25,26 and 27 September, 2019.

Dr Nair Anup Chandrasekharan was the Resource Person for the National Workshop on Materials Production on Communication Skills in English organised by the Institute of English, University of Kerala on 16-18 February, 2019.

## Resource Person at the SCERT Workshop

Dr Nair Anup Chandrasekharan was the Resource Person in the four-day course Designing and Module Development Workshop from 25/10/2018 to 28/10/2018 organised by the State Council of Educational Research and Training (SCERT).

## Higher Secondary School Teacher Transformation Programme (HSSTP)

Dr Nair Anup Chandrasekharan was the Resource Person on 11/10/2019 and 19/10/2019 at the HSSTP in English organised at Mar Ivanios College, Thiruvananthapuram from 11<sup>th</sup> October, 2019 to 20<sup>th</sup> October, 2019 by the Directorate of Higher Secondary Education in collaboration with the Directorate of Collegiate Education.

Dr Nair Anup Chandrasekharan was the Resource Person on 18/11/2018 at the HSSTP in English organised at the Institute of English, University of Kerala, Thiruvananthapuram from 16<sup>th</sup> November, 2018 to 25<sup>th</sup> November, 2018 by the Directorate of Higher Secondary Education in collaboration with the Directorate of Collegiate Education.

Dr Nair Anup Chandrasekharan was the Resource Person on 23/11/2018 at the HSSTP in English organised at Government College, Tripunithura, from 16<sup>th</sup> November, 2018 to 25<sup>th</sup> November, 2018 by the Directorate of Higher Secondary Education in collaboration with the Directorate of Collegiate Education.

## Workshops Attended

Dr. Anne Angeline Abraham: National Workshop on Developing Content for Online Course on Functional English: School of Distance Education, University of Kerala: 14 - 16 January 2019

Dr Nair Anup Chandrasekharan participated in the HSSTP Module Vetting and Planning workshop organised by SCERT Kerala, in collaboration with the Higher Secondary Education Wing of the Directorate of General Education on 03/10/19 and 04/10/19

**Dr. Divya S:** Workshop on Revised Syllabus (2019 admn.): BoS in English (Pass), University of Kerala and PG Department of English, St. Joseph's College for Women- 2 August 2019

**Ms. Anusha Das:** Workshop on Revised Syllabus (2019 admn.): BoS in English (Pass), University of Kerala and PG Department of English, St. Joseph's College for Women- 2 August 2019

### Paper Publication

**Vidu Vijayan** published a paper on "Transcending the 'Invisibility Syndrome': The Street as a Space for Self Expression in Anees Salim's *Vanity Bagh*", in *Littcrit*, ISSN 0970-8049, Issue 86, Vol. 44, No. 2 Dec. 2018

**Anusha Das** published a paper "An Early Start: Learning Vocabulary and Grammar by Young ESL Learners through Stories" in *IJELLH* ISSN 2321-7065, Vol. 7, Issue 6, June 2019

### Board of Studies

**Dr. Anne Angeline Abraham** serves as Member, Board of Studies - English and Communicative Studies, CMS Autonomous College, Kottayam.

### Refresher/Short Term Courses Attended

**Dr. Suma Alexander:** Short Term course on Women's Studies and Women Empowerment by HRDC, Kariavattom, Uty of Kerala (November 2019)

**Dr. Divya S:** Short Term course on Theory in Research Writing, organized by KSHEC at Thiruvananthapuram (Jan- Feb 2019)

**Vidu Vijayan:** Short Term course in Social Theory and Research in Humanities and Social Sciences organized by KSHEC, at Mahatma Gandhi University (September 2019)

**Anusha Das:** Short Term course in Social Theory and Research in Humanities and Social Sciences organized by KSHEC, at Mahatma Gandhi University (September 2019)

**Premjith M.R:** Refresher Course in English at Kumaun University, Nainital (Oct- Nov 2018); Short Term course on FDP in Humanities and Social Sciences (Cultural Studies) by KSHEC at Kannur University (7 to 11 May 2019); Short Term course - MHRD Workshop: Central University of Bathinda - on Curriculum Design and Development (July 2019)

### Festival of Ideas

**Dr. Nair Anup Chandrasekharan** served as the Judge in the inter collegiate paper presentation under the banner of Festival of Ideas, at Christian College, Chengannur on 05/11/2019 and on 'Cultural Creative: In Search of the Lost Chord' on 16/01/2019

### ACADEMIC AND CO-CURRICULAR ACTIVITIES OF THE STUDENTS 2018-19

#### University Level Competitions:

Aswati (1<sup>st</sup> year BA)- 1<sup>st</sup>: Hindi recitation;

Ankita.S.Nair: (1<sup>st</sup> BA)- 2<sup>nd</sup>: English Short story  
Akhil. D.Varghese (1<sup>st</sup> year BA): 3<sup>rd</sup>: English Debate

Alzamil Muhammed (3<sup>rd</sup> year BA)- 2<sup>nd</sup>: 77 Kg eight Category in the Kerala University Inter Collegiate (Inter Zone) Wrestling Men Championship, by the Department of Physical Education, University of Kerala

#### Other Competitions/ Achievements:

Archana.B (3<sup>rd</sup> year BA)- cleared the assessment for the role of Technical Support Executive-Non Voice conforming to National Skill Qualifications Framework Level-5.

Alzamil Muhammed (3<sup>rd</sup> year BA)- 2<sup>nd</sup>: Quiz Competition by State Bank of India in connection with Vigilance awareness week.

#### Achievements by Akhil. D.Varghese



Akhil. D.Varghese  
(1<sup>st</sup> year BA)

2<sup>nd</sup>: Debate Competition at St: Thomas College, Pala.

1<sup>st</sup>: Best Journalist Competition by Giridheepam Institute.

District Level Winner: Speak For India

1<sup>st</sup>: Elocution Competition by Baseliious College, Kottayam

3<sup>rd</sup>: All Kerala Elocution Competition by YMCA

1<sup>st</sup>: C.M Stephen Memorial Elocution Competition

1<sup>st</sup>: Best Journalist competition - Mar Baseliious College, Trivandrum

2<sup>nd</sup>: Debate: Mar Baseliious College, Trivandrum

2<sup>nd</sup>: Elocution - SB College

1<sup>st</sup>: All Kerala Elocution Competition- Mar Thoma College

1<sup>st</sup>: Best Manager Competition - St: Thomas College of Engineering.

2<sup>nd</sup>: Ad making competition - BCM College, Kottayam

1<sup>st</sup>: Rev. TV Thomas Memorial Elocution competition

1<sup>st</sup>: Essay Writing competition - State Bank of India.

#### 2019-20

##### University Level

Arun B: Gold Medal - University Judo Championship

Rohit: Gold medal- University Judo Championship

Noufal: Gold medal- University Judo Championship

Arun V: Third- University Judo Championship

##### Intercollegiate Level

Akhil D. Varghese- Finalist: Speak for India (Federal Bank)

Bharath- 1<sup>st</sup>: Pubg Tournament- Mar Ivanios

College, Mavelikara

Akhil D. Varghese- 1<sup>st</sup>: R J Hunt- St. Joseph's College of Communication, Changanassery (15<sup>th</sup> November, 2019)

Ammju Krishna.S, Ammu Ajayan and Mesy S. John- 1<sup>st</sup>: Act It Out- St.Thomas College, Ranni (29<sup>th</sup> November, 2019)

Akhil D. Varghese: 1<sup>st</sup>: Persona Competition- University Campus, Karyavattom (14<sup>th</sup> January, 2020)

Akhil D. Varghese- 1<sup>st</sup>: Debate competition- Christain College, Chengannur (24<sup>th</sup> January, 2020)

Akhil D. Varghese- 1<sup>st</sup>: R J Hunt- De Paul Institute of Science, Angamaly

Akhil D. Varghese- 2<sup>nd</sup>: C M Stephen Memorial Elocution- St. Joseph's College, Alappuzha

Neethu Ponnu Chandy- Participant: Workshop on Research in English Studies- Gandhi School of Humanities and Social Sciences (GITAM Uty, Hyderabad)- 20 to 24 January 2020

Akhil D. Varghese- - 1<sup>st</sup>: R J Hunt and Extempore English; Individual Champion- Expressionz 2020

Akhil D. Varghese- 1<sup>st</sup>: R J Hunt- Baseliious College, Kottayam

Akhil D. Varghese- Newman Youth Excellence Award- Newman College

Yahya Ibnu Siraj: 2<sup>nd</sup>: Quiz at Mar Ivanios College, Mavelikara

Mesy S.John, Ammu Krishna. S: 1<sup>st</sup>: Quiz- Mar Ivanios College, Mavelikara (19<sup>th</sup> February, 2020)

Neethu Ponnu Chandy: 1<sup>st</sup> - Spell Bee- Mar Ivanios College, Mavelikara (19<sup>th</sup> February, 2020)

Nikita Sreekumar, Yahya Ibnu Siraj- 1<sup>st</sup>: MBI-FL'20 Campus Literary Quiz (7<sup>th</sup> January, 2020)

Akhil D. Varghese- Best Manager award- Mar Ivanios College, Mavelikara

Nikita Sreekumar, Yahya Ibnu Siraj- 1<sup>st</sup>: Film Quiz- College Media Club

#### STARS OF MOORE (2019):



Jyothi M

Jyothi M (BA English) was judged as one of the three best outgoing students through a grueling selection process titled STARS OF MOORE. This selection process is spread across four rounds.

#### Arts Festival

Department of English shared the first prize with the Department of Botany and Biotechnology in the College Arts Festival.

#### Special Programme

A reunion of the BA English batch 1997- 2000 was arranged on 15 June 2018. Former teachers of the Department were special invitees.

# DEPARTMENT OF COMMERCE

## Inauguration of Commerce Association

Teacher Co-ordinator – Dr. Sajeeve V P, Head, Dept of Commerce, Co-ordinators Dr. Varghese AnieKurien, Dr. Ashish Varghese and Mr. Rahul J Kuruvilla, Student Co-ordinator- Mr. Rahul, Association Secretary. The highlight of the programme was the inaugural talk of Mr. Bijay Kumar, Senior Manager South Indian Bank, Mavelikara on 'Recent Trends in e-banking'. Nearly 300 students and staff participated in the programme. The freshers were introduced to the Bishop Moore Family. Dr. Ashish Varughese welcomed the gathering, HoD Dr. Sajeeve V P gave the presidential address, Principal Dr. Jacob Chandy and Vice- Principal Mrs. Anu Mathews offered felicitations. Dr. Varughese Annie Kurien offered the vote of thanks.



Memento handed over to Mr. Bijay, Manager South Indian Bank

## Financial Literacy Mission

It is a ten-year old venture of the department devoted to making public financially literate. As a part of its activities, initiatives were taken to form a finance club in the college concentrating financial education for the students exclusively. The convener of this mission is Dr. Sajeeve V P, who had been the certified financial trainer empanelled by the Institute of Corporate Affairs, set up to provide financial education under Investor Education and Protection Fund, under the Ministry of Finance, Govt. of India.

## Inauguration of the Finance Club

Teacher Co-ordinator: Dr. Ashish Varghese, Co-ordinators Dr. Sajeeve V P, Dr. Varghese Anie Kurien, and Mr. Rahul J Kuruvilla, Student Co-ordinator- Mr. Bitchu S (S5). Finance Club was initiated by the department. The main aim of this club is to update member-students on the changes in the working of financial markets, products and services.

**Membership-** Nearly 180 students across departments joined as members.

**Working** -Local experts from banking, insurance, mutual fund, share markets etc will train the members. The Club was inaugurated by the College Principal, Dr. Jacob Chandy.

## Seminar on SWAYAM

This Seminar was an initiative of the Department for the faculty members across India to learn how SYAYAM –the Indian MOOC functions. It was organized in association with Educational Multimedia Research Centre (EMMRC) Calicut. EMMRC Director Shri. D. Damodar Prasad and 4 experts from EMMRC gave talks about the various aspects of E-content development. 110 teachers from all over Kerala participated in the workshop. College Principal Dr. Jacob Chandy inaugurated the function on 29<sup>th</sup> February 2020.

The Department organized a talk on 17<sup>th</sup> October 2019 on "Security Issues in Digital Banking". This talk was sponsored by Federal Bank. Sri. Varghese A O, Dy. Vice President and Regional Head, Federal Bank, was the

chief guest and speaker. Dr. Sajeeve V P, HoD, Commerce welcomed the guests.

## Career Orientation

The orientation programme explored possibilities of CA, CMA (India and Outside), ACCA, MBA, MSW, MCom, courses in computer and entrepreneurship as possible career options. It also covers training on comprehensive development of the students for having a better career including personality development, communication and public speaking.

Dr. Brejith Lal N D presented a career orientation class for the students to make them aware of the importance of personality development and mental health to tap the possibilities that exist after completing their graduation.

## Invited Talks

1. Invited talk by Mr. Varughese Alexander, (MD, Finlord Investments, Mavelikara) on 30<sup>th</sup> July 2019 on the topic "How to invest in Share market".
2. C A Harikumar on 1. Security issues in online trading 2. "Chartered Accountancy – the best career Opportunity" on C A Day – July 1<sup>st</sup> 2019
3. Invited talk by Mr. Jerry Sebastian manager Union Bank of India Mavelikara. On "Security Issues in Online Banking" on inaugural day of Finance Club.
4. Invited talk by Mr. Abraham Thomas, Travancore Accounting Society, Changanoor, On "the Working of Demat Accounts" on C A day-1<sup>st</sup> July.

## Alumnus Visiting as Resource person

Two alumni of the department and now at high positions in MNCs and serving outside India visited department and spoke to students on personality development, career and social life.

## Add on Course

### Accounts Training Programme.

An Accounts Training Course - covering Tally, Manual Accounting, GST and Project Report Preparation is organised for the students. The classes are handled by C.A Harikumar (Chartered Accountant). 80 students are enrolled in it.

## Results

Ten students of the Department secured an 'A' grade in the 2019 University of Kerala exams.

## Competitive Events organized

**1. Best Manager Competition** - The Department organized a **Best Manager Intra-College Competition** to enhance the

Mr. Shijo K George, Landor, Singapore speaks on "How Campus Life decides Career"



Talk on Security Issues in Digital Banking- Welcome speech



Career Orientation Programme- Personality Development Class by Dr. Brejith Lal N D



Career orientation and Personality development training for Commerce students- "Ignited Mind" by Mr. Anto C Biju, GISAT



'Speech on Security issues in digital banking' by Mr. Jerry Sebastian



Principal inaugurates the Seminar on the 'Working of SWAYAM- the Indian MOOC'



EMMRC Director Mr. D Damodar Prasad addressing the audience Sponsored Programme by Federal bank



Mr. Vipin Thomas (CPA, Head of Audit, Baker Tilly, New Zealand) Speaking on "How to prepare for an International Career"



managerial abilities of students of the College.

**1. Interschool Business Quiz** An Interschool Business Quiz was organized to familiarize the school students with the emerging areas of business and commerce. Students from 18 schools across Kerala participated in the Quiz. The best three schools were given prizes totaling Rs. 15000/-

### Other Activities

- i. Parents Meeting and Parents Orientation Programme was held for parents of all the students at all the semester of the Department.
- ii. Final Year students were taken on a study tour to give them a first-hand exposure to industrial and business activities.
- iii. Mock Viva was conducted online to help students perform well in their project viva.
- iv. As part of financial literacy initiative, a major survey on financial literacy was organised among 40 different social groups

v. Contributions of the teachers of the Department

- i. Dr Sajeev V P was the Chairman of S1, S3 and S5 Pass Board.
- ii. Dr. Varughese AnieKurien became a member of Board of Studies.
- iii. Dr. Ashish Varughese got the Best Paper award from Alagappa University.
- iv. Mr. Rahul J Kuruvilla joined Indian Accounting Association.

## DEPARTMENT OF MATHEMATICS

### ASSOCIATION ACTIVITIES 2018-'19



*πthagΟρειη\$ '18*

over the meeting. Mrs. Anu Mathews, Vice Principal offered felicitations. A seminar on was also conducted along with this event.

### Mathematics Association Inauguration

The Association Inauguration of the Department of Mathematics “*πthagΟρειη\$ '18*” was on 14<sup>th</sup> August, 2018 at 1:30 a.m. in the College Seminar Hall. **Dr. Bastian K.S.**, Former HOD and Associate Professor of Mathematics, K.E. College Mannanam inaugurated the activities of the association. Principal, Dr. Jacob Chandy, presided



*Inter Departmental Teaching Competition*

### Drona 2018

To commemorate Teacher’s Day, an Inter Departmental Teaching Competition was conducted on 05/09/2018. Dr. Saji Samuel & Dr. Praveen served as judges. More than 50 students from various departments participated in this programme.



*JAM Coaching Class*

### JAM 2019 Coaching Class

Coaching classes, spanning over a period of 100 hours, for **IIT-JAM** entrance for Mathematics was inaugurated on 2<sup>nd</sup> October 2018 by the College Principal, Dr. Jacob Chandy. More than 30 Students from various Colleges attended the classes. The resource persons were eminent college teachers from across the state. As a result, more than ten students qualified the exam.

### Agni 2018

The Department of Mathematics and The Department of Physics came together to celebrate the 87<sup>th</sup> birthday of the Missle Man of India, Dr. A. P. J. Abdul Kalam by hosting an event ‘Agni 2018’. An exhibition was displayed as a part of the event. It provided information about the life of Kalam and about ISRO, which made the students realize the true importance of the day. An Inter-Departmental presentation competition ‘Dream 2020’ was also conducted as a part of this event.

### Yuktibhāṣā

An enrichment talk, ‘Yuktibhāṣā’, on “What is Calculus?” by Dr. E Krishnan, Former HOD of Mathematics, University College, Thiruvananthapuram was conducted on 26<sup>th</sup> November 2018. Students and teachers from different schools and colleges participated in this event.



*Dr. E Krishnan addressing the audience*



*Winning Team with Faculty*

### Intercollegiate Mathematics Quiz Competition

Prof. K J Johnson memorial 13<sup>th</sup> All Kerala Intercollegiate Mathematics Quiz Competition was held at the College on 26<sup>th</sup> November 2018. **Miss. Linnet Roslin Antony**, Assistant Professor, S.H. College Chalakudy, was the quiz master. Students from various Colleges participated in this competition. Team from Devagiri College, Calicut secured the Prof. K J Johnson Memorial ever rolling trophy and cash prize for the first prize winners. Assumption College, Changanacherry and Bishop Moore College, Mavelikara won second and third prizes respectively.



*Dr. A Vijaykumar Addressing the Audience*

### Invited Talk

A talk on “Excitements in Mathematics” was delivered by **Dr. A.Vijayakumar**, Emeritus Professor and former HOD of Mathematics, CUSAT, on 26/02/2019. Students and teachers from different Colleges participated in this event.

### Career Orientation Programme

A one day career orientation programme was conducted for final semester B.Sc.Mathematics students on 19<sup>th</sup> March 2019.



*Career Orientation Programme*

### WORKSHOP

Three-day workshop on Foundations of Mathematics for B.Sc. second and final year students was organized from 27 to 29 May 2019. The workshop was handled by eminent college teachers in Kerala, and covered topics on fundamentals of higher Mathematics. The programme also created a



*The Workshop Team*

platform for students to understand objective type mathematical problems in competitive exams and helped them increase their problem-solving skills.



### New Appointments

**Mr. Emil Ninan Abraham** joined the Department as an Assistant Professor on June 1<sup>st</sup>, 2018. He completed his B.Sc. Mathematics from St. Berchmann's College, Changanassery and M.Sc. Statistics from Cochin University of Science and Technology. He previously worked as Guest Faculty in Department of Statistics, Marthoma College, Thiruvalla and Department of Mathematics, BAM College, Thuruthicad.

### Students' Achievements

1. Gayathri R Pai

- BSc. Mathematics University 4th rank.
- CUSAT MSc. Statistics Entrance 1st rank.

2. Vani Sasi and Iona Ann Sebastian

- 2<sup>nd</sup> prize for Inter-collegiate Stat Quiz conducted at Kerala University Trivandrum.



3. Rohit Paul Jose

- Campus Placement at WIPRO.

4. Devanarayanan S

- Gold Medalist –Shot Put at the Kerala State Senior Athletic Championship 2019.
- Silver at the Kerala University Weight lifting Championship 2019.
- Silver at the Kerala University Rowing Championship 2019

5. Justin V Saji

- 2<sup>nd</sup> prize for Inter-collegiate Maths Quiz at NSS College, Pandalam
- 3<sup>rd</sup> Prize for Inter-collegiate Maths Quiz at St Joseph College, Anchal
- 3<sup>rd</sup> prize for Human Calculator at SH College, Thevara

6. Jesty James

- 2<sup>nd</sup> prize for Inter-collegiate Maths Quiz at NSS College, Pandalam
- 3<sup>rd</sup> Prize for Inter-collegiate Maths Quiz at St Joseph College, Anchal
- Kerala University Team Chess 4<sup>th</sup> Position

7. Avinash Ashok

- Represented Kerala at the National Youth Parliament 2019
- Delegate at the 3<sup>rd</sup> International Youth Forum on SDG's, Peace and Social Justice
- One of the top 300 delegates for Young Leader's Summit at IIM-Bangalore.
- Anchor at the International Film Festival of Kerala.

- 3<sup>rd</sup> Prize for Debate (Eng) at the Kerala University Youth Festival.

8. Anantha Krishnan

- Bronze Medalist at the All Kerala U-23 Wrestling Championship.
- Bronze at the Kerala University Wrestling Championship.

9. Manikantan S

- Silver Medalist, Kerala University Wrestling Championship.

10. Ashi Nair

- Bronze Medalist, Kerala University Judo Championship

11. Meenu A.M

- Silver Medalist, Hammer Throw at the Kerala University Athletic Meet.

#### ► Kerala University Team Chess Competition- Runners Up:

- Iona Ann Sebastian
- Meenu A.M
- Asna Nizar
- Harsha Prabhu U

#### ► Christmas Celebration Champions.

- First prize - Christmas Tree Decoration.
- First prize - Christmas Song Competition

#### ► Annual Arts Celebration Champions.

#### ► Annual Athletic Meet Champions.



### Faculty Achievements

#### Seminars/Talks/Workshops

1. Simili Abraham,

- Participated in a three day "National Seminar on Algebra and Graph Theory" conducted by St. Berchmann's College Changanacherry on 17<sup>th</sup>-19<sup>th</sup> January 2019.

2. Yogesh Prasad

- Participated in Talk "Topology and its Applications" conducted by RSET, Cochin on 10th January, 2019
- Attended a Seminar on "Heritage on Indian Mathematics" organized by St. Berchmann's College Changanacherry on 7th and 8th February, 2019.
- Attended an International Conference on Science and Technology at K.E. College Mannanam on 11th and 12th March, 2019.
- Delivered a talk at NSS College Pandalam on the topic "A Friendly introduction to Number Theory" on 27th July, 2018.
- Resource Person for UGC CSIR classes, Al-Ameen College, Edathala on 2nd October, 2018
- Resource Person for JAM classes 2018, Bishop Moore College, Mavelikara
- Attended an International Conference on "Topology and its Applications" at RSET Cochin, from December 5 to 11, 2018.

- Resource Person for JAM classes 2018, at St. Joseph's College, Iranjalakuda.

3. Emil Ninan Abraham

- Participated in 4th International Conference on Statistics for 21st Century, Department of Statistics, University of Kerala on Dec 13-15th 2018.
- Resource Person for JAM classes 2018 Bishop Moore College, Mavelikara.
- Resource Person for Summer training programme in mathematics @ S.B College Chenganacherry 18 May 2019.
- Quiz Master National level quiz competition on 28th June 2019 organized by Dept. Of Statistics University of Kerala.

### Papers Presented

1. Yogesh Prasad –"Some problems on reversible L-Frames International Conference on "Topology and its Applications" at RSET Cochin, from December 5 to 11, 2018.

2. Yogesh Prasad – "Some applications of reversible F- Posets" International Conference on Science and Technology at K.E. College Mannanam on 11<sup>th</sup> and 12<sup>th</sup> March, 2019.

3. Emil Ninan Abraham –"An intervened version of Alternative Hyper Poison Distribution and its properties" at 4<sup>th</sup> International Conference on Statistics for 21<sup>st</sup> Century, Department of Statistics, University of Kerala on Dec 13-15<sup>th</sup> 2018.

### Awards

1. Yogesh Prasad secured the best paper presentation award in International Conference on Science and Technology at K.E. College Mannanam on 11<sup>th</sup> and 12<sup>th</sup> March, 2019.

### National Service Scheme

- Anjali Susan Ninan served as the Programme Officer, National Service Scheme

## ASSOCIATION ACTIVITIES 2019-'20

### Mathematics Association Inauguration

The Association Inauguration of the Department of Mathematics "πθαυθσιανη\$ 19" took place on 27<sup>th</sup> August 2019 at 9:30 a.m. in the College Seminar Hall. **Dr. Sebastian George.**, Associate Professor of Statistics, St. Thomas



πθαυθσιανη\$ 19

College Pala inaugurated the activities of the association. Dr. Jacob Chandy, the Principal of the College presided over the meeting. Mrs. Anu Mathews offered felicitations. A Seminar

on "Statistical science for scientific research" was also conducted along with this event.



Dr. Sebastian George addressing the audience

**JAM 2020 Coaching Class**

Coaching classes for IIT-JAM/ P.G Entrance for Mathematics were continued during the academic year 2019-2020 too. A total of 100 hours were engaged covering the complete syllabus of IIT-JAM Mathematics Entrance.



JAM 2020

**Career Orientation Programme**

A one day career orientation programme was conducted for final semester B.Sc.Mathematics students.

**Faculty Achievements**

**Participation in Seminars/ Workshops/Talks**

1. Simili Abraham
  - Participated in Two-day National Seminar on 'Scientific solutions for sustainable rebuilding of Kerala in the post flood scenario' 9-10 Jan 2020 organized by Bishop Moore College, Mavalikara.
  - Participated and presented a paper in 4<sup>th</sup>International Conference on Science, Engineering, Technology and Social Sciences organized by K.E.College, Mannanam on 1-2 February 2020
2. Anjali Susan Ninan
  - Participated in the two-day national seminar on 'Scientific solutions for sustainable rebuilding of Kerala in the post flood scenario' 9-10 Jan 2020 organized by Bishop Moore college Mavalikara.
  - Participated and presented a paper in 4<sup>th</sup>International conference on Science, Engineering, Technology and Social Sciences organized by K.E.College, Mannanam on 1-2 February 2020.
3. Yogesh Prasad
  - Participated in the Degree College Teachers Training Programme in Mathematics (Refresher Course) from November 20 - December 12, 2019 at Talent Development Centre. IISc. Challakare. Karnataka.

- Participated in the two day national seminar on 'Scientific solutions for sustainable rebuilding of Kerala in the post flood scenario' 9-10 Jan 2020 organized by Bishop Moore College, Mavalikara.
- Participated and presented a paper in 4<sup>th</sup>International conference on Science,engineering,Technology and Social Sciences organized by K.E.College, Mannanam on 1-2 February 2020
- Resource person for Berchmans' enrichment programme in Mathematics held at S.B College Chenganachery on 15-2-2020.
- Resource person for JAM/PG entrance coaching classes St. Josephs College, Irijalakuda.
- 4. Emil Ninan Abraham
  - Participated in 4<sup>th</sup>International conference on Science, Engineering, Technology and Social Sciences organized by K.E.College, Mannanam on 1-2 February 2020

## OBITUARY



**Jesty James (20)**  
B.Sc. Mathematics (2017-2020)

**Awards**

1. Anjali Susan Ninan secured the best paper presentation award in International Conference on Science and Technology at K.E. College Mannanam on 1st and 2<sup>nd</sup> February, 2020.

## മലയാളവിഭാഗം പ്രവർത്തനരേഖ

ഭാഷാസാഹിത്യ ഭൂമികയുടെ മഹത്വത്തോട് നീതി പുലർത്തുകയെന്ന ഉത്തരവാദിത്തം ഏറ്റെടുത്തുകൊണ്ട് ബിഷപ്പ് മുർ കോളജിലെ മലയാള വിഭാഗം പ്രവർത്തിച്ചുവരുന്നു. 2018 19 അധ്യയനവർഷത്തെ പ്രവർത്തനങ്ങളും ഈ പാരമ്പര്യത്തെ നില നിർത്തിക്കൊണ്ടുള്ളതാണ്. കോളജിന്റെ പൊതുവായ പ്രവർത്തനങ്ങളിൽ സജീവ പങ്കാളിത്തം വഹിച്ചതോടൊപ്പം മലയാളവിഭാഗം സ്വന്തമായ പ്രവർത്തനങ്ങളും സംഘടിപ്പിച്ചു. റവ.ജോർജ്ജ് മാത്തൻ സ്മാരകപ്രഭാഷണം, പ്രസാധക സമിതി,പുസ്തക പ്രകാശനം എന്നിവയായിരുന്നു അവയിൽ പ്രധാനം.

റവ.ജോർജ്ജ് മാത്തൻ അക്കാദമിയുടെ ആഭിമുഖ്യത്തിൽ പുസ്തക പ്രസാധക സമിതിയുടെ ഉദ്ഘാടനം ജൂൺ 18ന് ഡോ. ധർമ്മരാജ് അടാട്ട് നിർവ്വഹിച്ചു. ശ്രീ.ജോൺസൺ ചെമ്മനത്തിന്റെ 'സാഹിത്യ വിചിന്തനങ്ങൾ' എന്ന പുസ്തകം അന്നേ ദിവസം പ്രകാശനം ചെയ്യുകയും ചെയ്തു.

മലയാളവിഭാഗം മുൻ മേധാവി ശ്രീ.ജോൺസൺ ചെമ്മനം മലയാള സമാജം പ്രവർത്തനങ്ങളുടെ ഉദ്ഘാടനം 2018 നവംബർ 18 ന് നിർവ്വഹിച്ചു.

മലയാളവിഭാഗത്തിന്റെ ആഭിമുഖ്യത്തിൽ നടത്തിവരുന്ന റവ.ജോർജ്ജ് മാത്തൻ സ്മാരക പ്രഭാഷണ പരമ്പര ഈവർഷവും സെപ്റ്റംബർ 25 ന് ഭംഗിയായി സംഘടിപ്പിക്കപ്പെട്ടു. പ്രസിദ്ധ വാഗ്മിയും നിരൂപകനുമായ ഡോ.എം.എൻ.കാരശ്ശേരി 'ഇന്നത്തെ മലയാളം' എന്ന വിഷയത്തിൽ പ്രഭാഷണം നടത്തി.

കേരള സംസ്കാര പഠനത്തിന്റെ ഭാഗമായി മലബാർ മേഖലയിലേക്ക് 2019 മാർച്ച് 58

തീയതികളിൽ കുട്ടികളുടെ പഠനയാത്ര സംഘടിപ്പിച്ചു. ക്ലാസ് തല അധ്യാപകരക്ഷാകർത്തൃയോഗങ്ങൾ വിളിച്ച് വിദ്യാർത്ഥികളുടെ പഠനനിലവാരം വിലയിരുത്തുന്നതിൽ പ്രത്യേക ശ്രദ്ധ പുലർത്തുന്നു.

2019-'20 അധ്യയനവർഷത്തിലെ മലയാളസമാജം പ്രവർത്തനങ്ങളുടെ ഉദ്ഘാടനം 2019 ഒക്ടോബർ മൂന്നാം തീയതി ശ്രീമതി ഡി. ബിന്ദു (അസി.പ്രൊഫസർ, മലയാള വിഭാഗം, ഗവ.കോളജ് , അമ്പലപ്പുഴ) നിർവ്വഹിച്ചു. ഇതോടനുബന്ധിച്ച് മരുതോർവട്ടം കണ്ണന്റെ നേതൃത്വത്തിൽ രൂക്മിണീസ്വയംവരം ഓട്ടൻതുളളൽ രംഗാവതരണവും വിദ്യാർത്ഥികളുടെ കലാവതരണവും നടത്തപ്പെട്ടു.

കേരള ഭാഷാ ഇൻസ്റ്റിറ്റ്യൂട്ടും മലയാളവിഭാഗവും ലിറ്റററി ക്ലബ്ബും സംയുക്തമായി രൂപംകൊടുത്ത വായനക്കൂട്ടം ഒക്ടോബർ 11ന് കോളജ് പ്രിൻസിപ്പാൾ ഡോ.ജേക്കബ് ചാണ്ടി ഉദ്ഘാടനം ചെയ്തു.

റവ.ജോർജ്ജ് മാത്തൻ സ്മാരകപ്രഭാഷണം ഇക്കൊല്ലം (11.11.2019) നിർവ്വഹിച്ചത് വിശ്വപ്രസിദ്ധചലച്ചിത്രകാരൻ പത്മശ്രീ അട്ടൂർ ഗോപാലകൃഷ്ണനാണ്. റവ. ജോർജ്ജ് മാത്തൻ അനുസ്മരണ സമ്മേളനം (30.11.2019) ബഹു. ഉന്നതവിദ്യാഭ്യാസവകുപ്പുമന്ത്രി ഡോ.കെ.ടി.ജലീൽ ഉദ്ഘാടനം ചെയ്യുകയും കിടങ്ങനൂർ കിഴക്കേത്തലയ്ക്ക്





ക്കൽ മാത്തൻ തരകൻ കുടുംബാംഗമായ ശ്രീ.സി. ജോൺ മാത്യുസ് അനുസ്മരണ പ്രഭാഷണം നടത്തുകയും ചെയ്തു.

സമസ്ത കേരള സാഹിത്യ പരിഷത്തിന്റെ ആഭിമുഖ്യത്തിൽ ഏ. ആർ. രാജരാജവർമ്മ സ്മൃതി (12.2.2020) പ്രശസ്തസാഹിത്യകാരൻ സി. രാധാകൃഷ്ണൻ ഉദ്ഘാടനം ചെയ്തു.

പ്രസിദ്ധ നിരൂപകൻ പ്രൊഫ. എം. തോമസ് മാത്യു 28.2.2020 വെള്ളിയാഴ്ച കോളജ് സന്ദർശിക്കുകയും വിദ്യാർത്ഥികളുമായി സംവദിക്കുകയും ചെയ്തു.

ഡോ. സുധാ മേരി തോമസ് എഡിറ്റ് ചെയ്ത റവ.ജോർജ്ജ് മാത്തനും മലയാള വ്യാകരണവും

എന്ന കൃതിയുടെ പ്രകാശനം റവ.ജോർജ്ജ് മാത്തൻ ജന്മദിശതാബ്ദിദിനമായ 2019

സെപ്റ്റംബർ 25ന് ബഹു.കേരള മുഖ്യമന്ത്രി ശ്രീ. പിണറായി വിജയൻ നിർവ്വഹിച്ചു. സജിനി ഡീനാ മാത്യുവിന്റെ ആദ്യ കഥാസമാഹാരമായ 'ഏണിയും പാവും' 2019 ഡിസംബർ 15ന് ബിഷപ്പ് മുൻ കോളജ് മുൻ പ്രിൻസിപ്പാൾ ഡോ.മാത്യു കോശി പ്രകാശനം ചെയ്തു.

2019ലെ ചെറുകഥയ്ക്കുള്ള കേരള സാഹിത്യ അക്കാദമി അവാർഡ് കെ. രേഖയുടെ 'മാനാഞ്ചിറ' എന്ന കഥാസമാഹാരത്തിനു ലഭിച്ചു.

വിവിധ സർവ്വകലാശാലകളിലും കലാലയങ്ങളിലും നടത്തപ്പെട്ട ദേശീയ, അന്തർദേശീയ സെമിനാറുകളിൽ ഈ കോളജിലെ മലയാളം അധ്യാപകർ ഇരുപതു പ്രബന്ധങ്ങൾ അവതരിപ്പിക്കുകയും പ്രസിദ്ധീകരിക്കുകയും ചെയ്തു.

1. ആലപ്പുഴ ലീഗൽ സർവീസ് സൊസൈറ്റിയുടെ ആഭിമുഖ്യത്തിൽ നടന്ന ഉപന്യാസ മത്സരത്തിൽ നീരജ വി.എം.ഒന്നാം സമ്മാനം കരസ്ഥമാക്കി. എറണാകുളത്ത് വച്ച് നടന്ന സി.ജെ. സ്മാരക പ്രസംഗ മത്സരത്തിന് ശിവദത്ത് എം.കെ.രണ്ടാം സമ്മാനം കരസ്ഥമാക്കി.നീരജ വി., എം.കെ. ശിവദത്ത്, അഖില അനിരുദ്ധൻ, ഹരിത എസ്. എന്നിവർ കേരളത്തിലെ വിവിധ സർവ്വകലാശാലകൾ നടത്തിയ പി.ജി. പ്രവേശനപ്പരീക്ഷയിൽ ആദ്യറാങ്കുകൾ കരസ്ഥമാക്കി. ഹരിത എസ്. യു.ജി.സി. നെറ്റ് പാസായി. വിവിധ കോളജുകളിലും സാംസ്കാരികസ്ഥാപനങ്ങളിലും നടത്തിയ സാഹിത്യ സാംസ്കാരിക പരിപാടികളിൽ മലയാളവിഭാഗത്തിലെ കുട്ടികൾ സജീവമായി പങ്കെടുത്തു.

## DEPARTMENT OF ECONOMICS

### Economics Association Inauguration

The inauguration of the activities of the Economics Association was held on 5<sup>th</sup> November 2018. The Head of the Department of Economics, Mar Ivanious College, Mavelikara, Dr. P. K. Varghese, inaugurated the activities by lighting the lamp. He delivered a talk on "Character - A Key Investment to Success". The students were oriented on the requisites for becoming successful in their career along with the joy of experiencing the fullness of life.



Mr Jayakrishnan conducting the Quiz Competition

### Quiz Competition

To commemorate the birthday of the former President of India Dr. Abdul Kalam an Inter-Departmental Quiz Competition was organized on 15<sup>th</sup> October 2018. Mr. Jayakrishnan, guest faculty, was the Quiz Master. Fifth Semester English, First Semester English and First Semester BCom students secured the first, second and third places respectively. Cash prizes were distributed to the winners.

### Bishop M.M John Memorial Lecture-2018

The prestigious Bishop M. M. John Memorial Lecture was organized on 22<sup>nd</sup> March 2019. The Head of the Department Dr. Ranjith Mathew Abraham welcomed the guests and also paid tributes to the great soul who worked tirelessly for the upliftment of the dalits and the down-trodden in the church and the society. The meeting was presided over by Principal Dr. Jacob Chandy. The Kerala State Planning Board Member and noted Neurosurgeon Dr. B. Ekbal delivered the lecture on the topic "Recent Trends in Higher Education". In his talk he elaborated on the recent developments in the education sector. He stressed on role of technology and the importance of staying updated on the recent innovations happening in the educational field. He also pointed out the challenges faced by the higher education sector due to the implementation of the Choice based Credit and Semester System. He also interacted with the students. Vice Principal Mrs. Anu Mathews proposed the vote of thanks. The Elizabeth Mathew Memorial Cash Award was awarded to Tanuja T.K for securing the highest marks in BA Economics Examination 2018 at the College level. Santhikrishna and Nadukuttan were presented merit awards for their achievements in the semester examinations.



M. M. John Memorial Lecture by Dr. B. Ekbal



### Golden Jubilee Souvenir

The Golden Jubilee Souvenir of the Department "Vidhyadhanam" was released by Dr. B. Ekbal on 22<sup>nd</sup> March 2019. The Department of Economics which celebrated its Golden Jubilee in 2018 embarked on a challenging and thrilling journey of publishing a souvenir incorporating the essence of the 50 memorable and golden years of the department. The Souvenir contains articles and photos of former teachers, former students, current students and memories of all well-wishers of the department. Dr. P. K. Varghese and Mr. Thomas Zachariah who served as chief editors of the souvenir were present on the occasion.



Dr. B Ekbal releasing the Golden Jubilee Souvenir Vidhyadhanam

### Invited Talk

A talk was organized on the topic 'Digital Banking' on 27<sup>th</sup> September 2018 in association with SBI Mavelikara. Resource Persons Mr. Binoy, Mr. Biju and Mr. Aravind handled the sessions. Students were appraised of all the recent developments in the banking sector. Software applications like YONO, SBI Card, Anywhere Banking etc were introduced to the students. How to start a bank account without going to the bank was also discussed. Students were briefed about the major developments in the banking sector.



Talk on Digital Banking

## Study Tour

A tour programme was organized for the final year students to Wayanad, Coorg, Uduppi during 5<sup>th</sup> to 9<sup>th</sup> March 2019. 37 students participated in the tour programme. Faculty members Dr. Ranjith Mathew Abraham, Dr. Reji G D and Mr. Jaykrishnan accompanied the students.



*Prof. Sajin Philip inaugurating the Economics Association*

welcomed the participants and the Principal Dr. Jacob Chandy presided over the meeting. Association secretary Sneha R proposed the vote of thanks.

## Economics Association Inauguration

The activities of the Economics Association for the academic year 2019-20 was inaugurated by Prof. Sajin Philip, Head of the Department of Economics of St. Cyrils College Adoor on 14<sup>th</sup> October 2019. On the occasion a talk was delivered by Prof. Sajin on the topic "Growth Trajectory in the Kerala Economy since 2010". The Head of the Department Dr. Ranjith Mathew Abraham



*Dr. G Gopakumar delivering Bishop MM John Lecture*

welcomed the guests and Mr. Dipu Joseph proposed the vote of thanks.

## Bishop MM John Lecture-2019

The Bishop MM John Lecture was organized on 26<sup>th</sup> February 2020 in the College Seminar Hall. Dr. G. Gopakumar the Vice Chancellor of the Central University of Kerala, Kasargod delivered the lecture on the topic "New Education Policy and the Educational Landscape of India". In his deliberations he dealt in detail on the aims of the policy to universalize pre-primary education by 2025 and to achieve 100

percent GER by 2030. He also touched upon the new pedagogical structure of education with 5+3+3+4 design covering the children in the age group 3-18 years. The talk was followed by an interactive session with questions coming from the floor. Principal Dr. Jacob Chandy presided, and Vice principal Prof. Anu Mathews reminisced the life and works of the saintly Bishop. The Head of the Department Dr. Ranjith Mathew Abraham welcomed the guests and Mr. Dipu Joseph proposed the vote of thanks.

## Ignited Minds=The Quiz Competition

An inter-departmental quiz competition titled 'Ignited Minds' was organized on 15<sup>th</sup> October 2019 to commemorate the birthday of former president Dr. A P J Abdul Kalam. After a preliminary round five teams

were selected for the final round. Ms. Ashlin K Jayan, final year student served as the quiz master. The Department of English secured the first position, Department of Mathematics the second position and another team from English Dept. secured the third position. Trophies were awarded to the winners.

## Presentations/ Talks/ Seminars

- Dr. Ranjith Mathew Abraham delivered a talk on 'Economic Reforms in the Indian Economy: An Appraisal' on 12th November 2019 at Mar Ivanios College of Arts and Science, Mavelikara.
- Dr. Ranjith Mathew Abraham chaired a session in the International Conference on Marxism organized by the Department of English, Bishop Moore College, Mavelikara from 7-9th January 2019.
- Dr. Ranjith Mathew Abraham presented a paper entitled 'FDI and Macroeconomic Variables Indian Evidence' in the International Conference on 'FDI and Make in India- Synergists of Transforming Indian Economy' held on 30 & 31st of August 2019 at Alagappa University, Karaikudi.
- Mr. Dipu Joseph presented a paper in National Seminar entitled "Interrogating

Kerala Development Model through the Prism of Sustainability" at BJM Government College, Chavara on 3rd and 4th December 2018.

- Mr. Dipu Joseph participated in the Colloquium on Higher Education conducted by the Kerala Higher Education Commission on 6th January 2019.
- Mr. Dipu Joseph participated in the UGC sponsored National Seminar organized by PG Department of Political Science St. Marys College, Sulthan Betherly on 24, 25 and 26 February 2019.

## Best Paper Award / Achievements

- Dr. Ranjith Mathew Abraham received the Best Paper Award for the paper entitled FDI and Macroeconomic variables Indian Evidence in the International Conference held on 30th & 31st of August 2019 at Alagappa University, Karaikudi.
- Dr. Ranjith Mathew Abraham was appointed as Chairman of Board of Examiners of
- Second Semester CBCS B.A. Degree Examinations, 2019, University of Kerala.
- Dr. Ranjith Mathew Abraham was appointed as Chairman of Board of Examiners of Fourth Semester CBCS B.A. Degree Examinations, 2019, University of Kerala.
- Mr. Dipu Joseph served as the member of Malpractice Prevention Squad in Alappuzha and Pattanamthitta districts for the University of Kerala examinations in 2018 - 2019.

## Faculty Development Programme

- Mr. Dipu Joseph, Assistant Professor in Political Science attended the 165th Orientation Programme conducted by UGC HRDC, Kariavattom Campus, University of Kerala from January 3rd to January 23rd, 2020.

## Student Achievements

- **Shahana Fathima** secured the 9<sup>th</sup> position in the Kerala University BA Economics Degree Examinations 2019.



*Shahana Fathima*



*Akshay A*

- **Akshay A** student of the V Semester BA Economics class elected to the Kerala University Senate 2019-'20

- Two students (Arya B Suresh and Ashlin K.J) participated in the Power point presentation competition on the topic "Floods and Models for Reconstruction" organized by the Christian College, Chengannur.

- The Department of Economics secured the overall 2nd position in the Annual Athletic Meet of the College organized on 7th and 8th March 2019 and repeated the feat in the Meet organized on 6th March 2020.

## POST GRADUATE DEPARTMENT OF BOTANY AND BIOTECHNOLOGY

### ACTIVITIES OF THE DEPARTMENT

**Botany-Biotechnology Association (2018-19)** was inaugurated by Dr. Stephen Sequeira, Asst. Professor of Botany, Maharaja's College, Ernakulam on 25.01.2019. As part of the programme, Dr. Stephen Sequeira delivered a lecture on 'Distribution and Diversity of Lichens with Special Reference to Kerala'. On this occasion, University of Kerala rank holders Jisa Ann Sabu, Ms. Riya Mary Cherian, Ms. Liya Merin Stanley and UGC JRF winners Ms. Athira R.K. Nair and Ms. Arsha P were honored.



*Dr. Stephan Sequeira inaugurating Botany Biotechnology Association 2018-19*

### World Wetland Day Celebrations - 2019

Science Club of the College, Dept. of Zoology and Dept of Botany & Biotechnology jointly organized the World Wet Land Day celebrations - 2019 in the College on 05.02.2019. Dr. Jithesh Krishnan, Asst. Prof.



Dr. Jithesh Krishnan interacting with the students

in Botany, NSS College, Pandalam delivered a lecture on "Wetlands: Wastelands? Lifeline of future Earth"

On this occasion, Dept. of Botany and Biotechnology conducted an Intercollegiate Quiz Completion entitled "Nymphaea" on the theme: Wetlands and Climate Change. Mr. Robert Raju was the quiz master. 16 teams from various colleges participated. Students from VTM NSS College, Dhanuvachapuram, St. Stephen's College, Pathanapuram and Christian College, Chengannur bagged first, second and third prizes respectively.

Botany-Biotechnology Association (2019-20) was inaugurated by Dr. B. Santhosh, Principal Scientist (Mariculture), ICAR-Central Marine Fisheries Research Institute, Vizhinjam on 19.09.2019. He delivered a lecture on "Marine diversity and its application in life sciences".



Dr. B. Santhosh inaugurating Botany Biotechnology Association 2019-20.

In the meeting, the toppers of the 2018-2019, Mr. Harshid P. (M.Sc. Botany), Ms. Aswini G. Nair, Ms. Gayathri S., Sreelekshmi P., Ms. Athira Sudevan (B.Sc. Botany); Ms. Girija Hima Surendran, Ms. Athira Anil, Ms. Parvathy Rajan, Ms. Sneha Shaji, Ms. Jesly Elsa Thomas, Ms. Lakshmi Krishnan, Ms. Riya Elizabeth Saji, Ms. Merin Raichal Saji (B.Sc. Botany and Biotechnology) were honoured.

### ASPIC Club Formation

Antibiotic Stewardship and Prevention of Infection in Communities (ASPIC) Club of Bishop Moore College, a joint venture of Department of Botany & Biotechnology and Zoology, was inaugurated on 24<sup>th</sup> October, 2019 by Principal, Dr. Jacob Chandy. The Club was formed under the patronage of ReActAsia Pacific, an international agency working against antimicrobial resistance (AMR). Dr. Prakash G. Williams was nominated as the Faculty Nodal Officer of the Club. Prof. Alexander K Samuel, Syndicate Member, CUSAT; Dr Philip Mathew, Public Health Consultant, ReAct Asia Pacific, Mr. Vishal Philip Sam, Consultant, ReAct Asia Pacific addressed the gathering and educated the members about the consequences of AMR and the role that the club can play in creating public awareness.



ASPIC Club Members with Representatives From ReAct Asia Pacific

### Training on Mushroom Cultivation and Marketing

A training on Mushroom cultivation and marketing was conducted in the College auditorium on 24<sup>th</sup> January, 2020 in association with the Department of Zoology. The programme aimed to attract



Participants getting hands-on training in Mushroom cultivation.

student entrepreneurs into mushroom farming. About 100 students, teachers and parents participated in the training. Smt. Leenarani, a Karshakasree awardee and one of the master trainers from the Krishi Vigyan Kendra, Alapuzha lead the training programme. The faculty, staff and students had a hands-on training session during the programme.

### ACHIEVEMENTS OF TEACHERS

1. Dr. Sivaprasad A. was nominated to the Board of studies in Biotechnology (Pass), University of Kerala.
2. Dr. Brijithlal N.D, Dr. Sivaprasad A. and Dr. Dinesh Raj R. were recognized as research guides in Botany by the University of Kerala.
3. Dr. Brijithlal ND and Dr. Sivaprasad served as Convenors of the mal-practice prevention squad, University of Kerala from March to June 2019 and Mr. Robert Raju served as its Member from January 2020 to March 2020.
4. Dr. Dinesh Raj R. has been nominated to the Board of Studies in Botany of Assumption College, Changanassery (Autonomous).

### FDP Programmes:

Sl. No.	Faculty	Course	ASC	Duration
1.	Dr. Prakash G. Williams	Summer School	UGC-HRDC, University of Kerala. Trivandrum	23.07.2018 to 13.08.2018
		Short term course	UGC-HRDC, University of Kerala. Trivandrum	04.07.2019 to 10.07.2019
		Short term course	UGC-HRDC, University of Kerala. Trivandrum	23.07.2019 to 29.07.2019
2.	Mr. Robert Raju	Orientation programme	UGC-HRDC, University of Kannur	11.07.2018 to 07.08.2018
		Refresher course in Botany	UGC HRDC, Bharathiar University	12.09.2019 to 25.09.2019
3.	Dr. Sivaprasad A.	Refresher course in Botany	UGC HRDC, Bharathiar University	12.09.2019 to 25.09.2019
		Short term course	UGC-HRDC, University of Kerala. Trivandrum	04.07.2019 to 10.07.2019
		Short term course	UGC HRDC, Patiala	20.08.2019 to 27.08.2019
4.	Dr. Santhi W.S.	FDP	FDP in Philosophy of Science by KSHEC	29.08.2019 to 02.09.2019
		Short term course	UGC-HRDC, University of Kerala. Trivandrum	04.07.2019 to 10.07.2019
5.	Dr. Jisha S.	FDP	FDP in Philosophy of Science by KSHEC	29.08.2019 to 02.09.2019
		Refresher Course in Life Sciences	UGC-HRDC, University of Kerala. Trivandrum	11.07.2019 to 24.07.2019
6.	Dr. Regy Johnson	Five day FDP programe- Bio-informatics for basic research and teaching	MG University	28.11.2019 to 03.12.2019

## Seminars/Workshops :

**Mr. Robert Raju** participated in the International Symposium on Converging Technologies for Human Welfare: Biotechnology, Nanotechnology and Information Technology concept to common life, organized by the Dept. of Biotechnology, Mar Ivanios College, Thiruvananthapuram on 02.07.2019

**Mr. Robert Raju** participated in the National Seminar on 'Conservation of wetland Ecosystems for Long Term Ecological Security' organized by the Dept. of Botany, Sree Narayana College for Women Kollam, from 18- 20, January 2018

**Dr. Prakash G. Williams** participated in the *World Environmental Day Celebration 2018*, on 5<sup>th</sup> June 2018, organized by the Directorate of Environment and Climate Change, Thiruvananthapuram.

**Dr. Prakash G. Williams** participated in the National Seminar on the Environmental Status of Estuarine and Coastal Ecosystems in India (ECEI-2019), on 16<sup>th</sup> March 2019 organized by the Department of Environmental Sciences, University of Kerala, Kariavattom, Thiruvananthapuram.

**Dr. Prakash G. Williams** participated in the National Seminar on *Viral genomics- its implications in viral diagnostics and Disease control* conducted by the Interuniversity centre for Genomics and Gene Technology, University of Kerala, Kariavattom Thiruvananthapuram on March 14, 2019

**Dr. Prakash G. Williams** participated in the *International Virology Discussion Meet 2019* organized by the KSCSTE on February 9<sup>th</sup> 2019 at Institute of Advanced Virology, Thonakkal, Thiruvananthapuram.

**Dr. Prakash G. Williams** participated and chaired a session in the three day National seminar on *Omics Approaches in Biotechnology* organized by the Department of Biotechnology, Government College, Kariavattom, Thiruvananthapuram on February 13, 2019

**Dr. Prakash G. Williams** participated in the *National Seminar on Ecology and Conservation* on 15<sup>th</sup> January organized by the Department of Zoology, University of Kerala, Thiruvananthapuram

**Dr. Dinesh Raj, Dr. Prakash G. Williams and Dr. Regy Johnson** participated in the national seminar on Nanoscience and Nanotechnology 'nano 2019' organized by the Dept. of Chemistry, Bishop Moore College, Mavelikara with the support of DST-SERB from 12 to 14 February 2019

**Mr. Prathap C.Y.** attended a training programme in basic molecular biology from 29<sup>th</sup> October to 7<sup>th</sup> November 2018 in CEPC Laboratory, Kollam

**Dr. Santhi W.S.** participated in the National Workshop on "Environmental waste and energy auditing" held at the Department of Environmental Sciences, University of Kerala from 21 to 23, February 2018.

**Santhi W. S.** participated in the seminar on 'Environmental degradation consequent to Kerala floods 2018 and remediation' organized at University College on 02.03.2019

**Dr. Jisha S.** participated in the three day national seminar on Biomedical research: Changing paradigms across time organized by the Dept of Biochemistry, Govt. College, Kariavattom from 30.01.2019 to 01.02.2019

**Prakash G. Williams** served as a resource person for the National Seminar on Scientific solutions for sustainable rebuilding of Kerala in the Post flood scenario, organized by Bishop Moore College Mavelikkara in association with Directorate of Environment and Climate change (DoECC), Govt. of Kerala during January 9-10, 2020

## Curriculum Revision Workshops

**Dr. Regy Johnson** participated in syllabus revision workshop conducted by Board of Studies in Botany (Pass), University of Kerala at University College, Thiruvananthapuram from 25.07.2018 to 27.07.2018

**Dr. Dinesh Raj R. and Dr. Santhi W.S.** participated in syllabus revision workshop for B.Sc. Biotechnology courses conducted by the Board of Studies in Biotechnology (Pass), University of Kerala at Dept. of Botany, Kariavattom campus, Thiruvananthapuram from 27 to 28, September 2018.

**Dr. Jisha S.** participated in curriculum revision workshop on outcome based syllabus revision of UG courses in Biochemistry organized by University of Kerala from 27.06.2019 to 03.07.2019

## Conferences/Seminars

**1. Dr. Prakash G. Williams** presented a paper entitled 'Growth enhancement of pea plant (*Pisum sativum*) using seaweed extract an organic fertilizer' in a National Seminar on recent trends in biomedical science and informatics (INFOFEST- 2018) organized by Sree Ayyappa College, Eramallikara on April 27 and 28, 2018

**2. Dr. Prakash G. Williams** presented a paper entitled 'Isolation and Characterization of heavy metal resistant fungi' from the Industrial sites of Chavara, Kollam' in a National Seminar on the environmental status of estuarine and coastal ecosystems in India (ECEI-2019), at the Department of Environmental Sciences, University of Kerala, Kariavattom on 16<sup>th</sup> March 2019.

**3. Dr. Prakash G. Williams** presented a paper entitled 'Macrobenthic diversity- a tool for biomonitoring in selected reaches of Sasthamkotta Lake. A hot spot area' in a National Seminar on Emerging Challenges in Biodiversity Conservation with special reference to recent trends in ecotoxicology (ECBCRTET-2018) organized by MSM College, Kayamkulam, Kerala on 26 and 27 April, 2018

**4. Dr. Prakash G. Williams** presented a paper entitled 'Isolation and characterization of Uropathogens from hospital environments and their control using medicinal plants' in an International Conference on Advanced Innovation in Science Engineering and Technology (ICAASET-2019) organized by Sree Ayyappa College and Techowan, Eramallikara.

**5. Jisha S, Reshma R, Santhi W S.** presented a paper titled 'Synthesis and analysis of copper nanoparticles from coconut shell' at the International Conference on Nanomedicine (ICON), MKU, Madurai, Tamil Nadu in February, 2019.

**6. Santhi W S, Nigina, Jisha S.** presented a paper titled 'Anti-bacterial and seed germination properties of biogenic copper nanoparticles' at the International Conference on Nanomedicine (ICON) at MKU, Madurai, Tamil Nadu in February, 2019.

**7. Jisha S, Athira R K Nair, Resha R, Santhi WS** presented a paper entitled "Biosynthesis and study of copper nano particles from Coco peat" in the National Seminar on Nanoscience and Nanotechnology 'nano 2019' organized by the Dept. of Chemistry, Bishop Moore College, Mavelikara with the support of DST-SERB from 12 to 14 February 2019

**8. Jisha S, Saranya G, Santhi W S.** presented a paper titled 'Synthesis of plant mediated copper nanoparticles from leaf extracts of two Nyctaginaceae family members' in an International conference on "Recent Innovations in Biosustainability and Environmental Research-2019" (RIBER-2019) at Annamalai University, Annamalaiagar, Tamil Nadu, in February, 2019

**9. Santhi W S, Ardra G, Jisha S.** presented a paper titled 'Antimicrobial activity and enzyme inhibitory

potential of crude cystatins from selected medicinal plants' in an International Conference on "Recent Innovations in Bio sustainability and Environmental Research-2019" (RIBER-2019) at Annamalai University, Annamalaiagar, Tamil Nadu in February, 2019

**10. Anusha Unni and Regy Johnson** presented a paper titled 'Evaluation of the value added properties of mango (*Mangifera indica* L.) seed kernel' in a National Seminar on "Current Trends and Advances in Biological Sciences" organized by Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikkara in association with CSIR, Govt. of India from February 5 to 7, 2020.

**11. Athira R. K. Nair & Brijithlal N. D.** presented a paper titled 'Antimicrobial activity of *Semibarbula orientalis* (F.Weber) Wijk & Margad. in various solvents by agar well diffusion method' in a National Seminar on "Current Trends and Advances in Biological Sciences" organized by Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikkara in association with CSIR, Govt. of India from February 5 to 7, 2020.

**12. Chythra Chandran, Amrutha Krishnan K and Jisha S.** presented a paper titled 'Physicochemical and functional characteristics of rice (*Oryza sativa* L.) varieties' in the National Seminar on "Current Trends and Advances in Biological Sciences" organized by Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikkara in association with CSIR, Govt. of India from February 5 to 7, 2020.

**13. Harshid P, Athira M., & Robert Raju** presented a paper titled 'Comparative anatomical studies of selected species of Menispermaceae of Kerala in a National Seminar on "Current Trends and Advances in Biological Sciences" organized by the Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikkara in association with CSIR, Govt. of India from February 5 to 7, 2020.

**14. Krishnakumar and G. Prakash Williams** presented a paper titled 'Novel biomaterials for bone regeneration' in a National Seminar on "Current Trends and Advances in Biological Sciences" organized by Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikkara in association with CSIR, Govt. of India from February 5 to 7, 2020.

**15. Rejo Kurien, Ajmi Nizar and Jisha S.** presented a paper titled 'Effect of different pretreatment methods on the production of bioethanol from saw dust' in a National Seminar on "Current Trends and Advances in Biological Sciences" organized by the Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikkara in association with CSIR, Govt. of India from February 5 to 7, 2020.

**16. Rinu V., Rari Vijayan, and Dinesh Raj R.** presented a paper titled 'In vitro antibacterial, phytochemical and molecular characterization of *Moringa oleifera* Lam'. In a National Seminar on "Current Trends and Advances in Biological Sciences" organized by Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikkara in association with CSIR, Govt. of India from February 5 to 7, 2020.

**17. Riya Mary Cherian, Sharee Krishna, Prakash G Williams, Jisha S. and Santhi W S.** presented a paper titled 'Isolation, characterization and screening of antibiotic producing microorganisms from soil' in a National Seminar on "Current Trends and Advances in Biological Sciences" organized by Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikkara in association with CSIR, Govt. of India from February 5 to 7, 2020.

**18. Shilpa Anna Jose and A. Sivaprasad** presented a paper titled 'In vitro propagation and comparative phytochemical analysis of wild and micropropagated plants of *Bacopa monnieri* (L.) Pennell'. In a National Seminar on "Current Trends and Advances in Biological Sciences" organized by Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikkara in

association with CSIR, Govt. of India from February 5 to 7, 2020.

## Paper Publications

1. Athira R. K. Nair, Brijithlal N. D., Prakash G. Williams and Lubaina A. S. *In Vitro* Anticancerous effect of the *Taxithelium nepalense* (Schwagr) Borth. Studied by MTT assay. *World Journal of Pharmaceutical Research* Vol 7, Issue 2, 2018. P. XXX-XXX.

2. Latha C. and G. Prakash Williams (2018) Growth enhancement of pea plant (*Pisum sativum*) using seaweed extract an organic fertilizer. Chapter in the Book edited by Anilkumar et al. & Published by IDEs and Sree Ayyappa College. Eramallikara

3. Athira R.K. Nair, Jisha S., Sukanya J.J., and Santhi W. S. (2019) Generation and Evaluation of Copper nano Particles from Selected Species of Annonaceae. *International Journal of Life Sciences research*, Vol 7, Issue 2, PP 202-212

4. Athira R.K. Nair and Brijithlal ND (2019) Antimicrobial activity of *Taxithelium nepalense* Schwagr broth in various solvents by agar well diffusion method. *International Journal of Life Sciences research*, Vol 7, Issue 2, PP 272-278

5. Sneha Liya John, Prakash G. Williams, Brijithlal N.D., Namitha L. H., and Kirshnakumar S. (2019) Effect of UV- $\gamma$  radiation on the growth, Pigment production and macromolecular contents in marine microalgae. *Research. J. Pharm. and Tech.* 12 (12)

6. Prakash G. Williams, Anandhu D., Kiran Abraham Jacob, Akshaay B., and Prathap C.Y. "Post Flood Survey and Physico chemical analysis of drinking water quality in Mannar panchayat of Chengannur". Published in the Proceedings of National seminar on Scientific solutions for sustainable rebuilding of Kerala in the Post flood scenario. Organised by Bishop Moore College Mavelikkara in association with Directorate of Environment and Climate change (DoECC), Govt. of Kerala during January 9-10, 2020

7. Prakash G. Williams, Bhagyalekshmi J., Nandu Satheshan, and Prathap C.Y. "Assessment of microbiological standards in drinking water in flood affected Mannar panjayath". Published in the Proceedings of National seminar on 'Scientific solutions for sustainable rebuilding of Kerala in the Post flood scenario'. Organised by Bishop Moore College Mavelikkara in association with Directorate of Environment and Climate change (DoECC), Govt. of Kerala during January 9-10, 2020

8. Reeya Jose and Robert Raju "Ground water quality assessment in selected wards of Thekkekkara Panchayath of Kerala". Published in the Proceedings of National seminar on 'Scientific solutions for sustainable rebuilding of Kerala in the Post flood scenario'. Organised by Bishop Moore College Mavelikkara in association with Directorate of Environment and Climate change (DoECC), Govt. of Kerala during January 9-10, 2020

## GenBank submissions

Prakash G. Williams, Kavya K.S., Austin P., Arjun J.K. Partial sequences of 16s rRNA from bacterial isolates. (MN566042-MN566049) submitted on 16.10.2019

## Books published

Proceedings of the National Seminar "Recent innovations and current trends in biological sciences (RICTBS 2017)" published by Bishop Moore College, Mavelikkara ISBN: 978-81-938524-7-7

## ACHIEVEMENTS OF STUDENTS

1. Ms. Riya Mary Cherian, Ms. Liya Merin Stanly and Ms. Aswathy Babu secured first, third and fifth position respectively for B.Sc. Botany and Biotechnology examinations (University of Kerala) in June 2018.



Ms. Riya Mary Cherian



Ms. Liya Merin Stanly



Ms. Jisa Ann Sabu



Ms. Anush Unni

CSIR JRF (NET) awardees: Ms. Arsha K. (CSIR-JRF in June 2018), Mr. Harshid P. (UGC NET in December 2018), Ms. Sandra Jose and Mr. Sreejesh K. H. (UGC NET in June 2019).



Ms. Arsha K.



Mr. Harshid P.



Ms. Sandra Jose



Mr. Sreejesh K. H.



Bishop Moore College Team with the organizers of International Eco-conference.

2. Mr. Harshid secured fourth rank in M. Sc. Botany examinations held in December 2018.

3. Ms. Arsha K. cleared CSIR (JRF) with 104 rank, in June 2018, Mr. Harshid cleared UGC NET in December 2018 and Ms. Sandra Jose cleared UGC NET in June 2019. Mr. Sreejesh KH (2014-17, B.Sc. Botany and Biotechnology) qualified NET in June 2019.

4. Ms. Girija Hima Surendran, Ms. Athira Anil, Ms. Paravathy Rajan, Ms. Sneha Shaji secured 4<sup>th</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 10<sup>th</sup> rank respectively in B.Sc. Botany and Biotechnology examinations held in May 2019.

5. Ms. Jisa Ann Sabu, Ms. Anusha Unni and Ms. Chandana S. secured First, Second and Seventh rank respectively in M.Sc. Botany examinations held in October 2019.

6. Ms. Sneha Shaji won Third place in essay writing in English in the Kerala University Youth Festival held at Kariavattom campus, University of Kerala from 26<sup>th</sup> to 30<sup>th</sup> March 2019

7. Ms. Sruti Malavika, Ms. Akshaya Krishnan, Ms. Anitha M Koshy and Ms. Varsha Joseph have participated in the state level biodiversity awareness seminar cum exhibition on 04.02.2019 organised by MCFST, Thiruvalla

8. Sreelekshmi S, Sruthy Jose, Rakhi R, Riya Mary Cherian and Sneha Thomas have participated in the conference entitled "Bioradiance 2019 - Toxicity: Current Perspectives" organized by Pushapagiri Research Centre, Thiruvalla and Bishop Moore College Mavelikkara at Pushapagiri Medical College campus on 06.07.2019.

9. Sreelekshmi S, Aswathy S, Sruthy Jose, Riya Mary Cherian, Sneha Thomas, Athulya Rajan and Rakhi R. have participated in the one day thematic seminar on Organic connection with coconut fostering ecological sustainability and air purification held at ICAR-CPCRI, Regional Station, Kayamakulam on 14.06.2019.

10. Riya Mary Cherian has participated in the II National Workshop on Algal Taxonomy and Culturing organized by the Dept. of Botany, Catholicate College, Pathanamthitta on 27.09.2019 and 28.09.2019

11. Riya Mary Cherian won the first prize in the Encon Club Essay Competition conducted by BPCL Kochi Refinery in connection with Saksham Oil and gas Conservation Mass Awareness Campaign.

12. Riya Mary Cherian won the first prize in Essay Writing Competition held in connection with World environment Day Celebration-2019 conducted by Dept of Chemistry in Association with KSCSTE on 25<sup>th</sup> June 2019

13. Riya Mary Cherian has participated in the two days Algal Workshop on Diversity, Taxonomy and Applications organized by the Dept. of Botany, Christ College, Irnjalakkuda from 14.02.2020 and 15.02.2020

14. Jisa Ann Sabu, Anusha Unni, S.Salma, Kavya VS, S. Aneeta, Arya Sudheesh, Kavya KS, SN Keerthy, participated in the international Eco-conference organized by the Consortium of Higher Educational Institutions under the leadership of CSI Synod held at CSI Synod Centre, Chennai from 1<sup>st</sup> to 4<sup>th</sup> August, 2019

15. Adithya Mohan participated in the All Kerala Intercollegiate power point presentation Competition held at Assumption College, Changanassery on 30.01.2019

## National Seminar on Current Trends and Advances in Biological Sciences, (CTAB - 2020)

The three day National Seminar 'Current Trends and Advances in Biological Sciences (CTAB - 2020)' was held at the Convention Centre, Bishop Moore College, Mavelikkara from 5<sup>th</sup> to 7<sup>th</sup> February, 2020. Dr. TV. Ramachandra, Scientist, Centre for Ecological Sciences, Indian Institute of Science, Bangalore, inaugurated the National Seminar and delivered a key note address on 'Sustainable Management of Ecology and Environment in Western Ghats: Strategies and Challenges'. Altogether 7 keynote lectures and more than 70 delegate presentations were there. The Valedictory session was presided over by Principal, Dr. Jacob Chandy and Valedictory address was made by Dr. Suresh P. S., Chief Guest. Best paper presentation awards were distributed to winners by Dr. Jacob Chandy and Dr. Suresh P. S. Mr. S. Aneesh, Cell and Molecular Biology Division, Department of Botany, University of Calicut and Ms. Soumya Raj, Department of



Prof. T.V. Ramachandra, IISC Bengaluru inaugurating the CTAB 2020

Botany, University College, Thiruvananthapuram bagged the best paper presentation award in the researchers and student category respectively. Ms. Pinkie Cherian, Department of Botany, St. Teresa's College, Ernakulam, Kerala bagged the best poster presentation award.

## Talent Hunt- SASTHRAJALAKAM

Sathrajalakam, was a three day residential programme for selected students from various Govt/ Aided Schools of Alapuzha district organized by the Dept. Chemistry, in association with State Institute of Educational Technology (SIET). During this programme, Dr. Sivaprasad A. delivered a lecture on "Plant biotechnology". Besides the lecture, the Department made demonstrations of plant tissue culture, column and paper chromatographic separation of plant photosynthetic pigments, Spectrophotometry, pH measurement of solutions etc

## Extension Activity

In association with other science departments, Dept of Botany and Biotechnology organized a Programme for the Promotion of Excellence among Gifted Children of Mavelikara Educational District on February 15, 2020. Around 60 gifted students visited the Botany and Biotechnology laboratory. Dr. Regy Johnson and Mr. Prathap C.Y. coordinated the activities at the department.

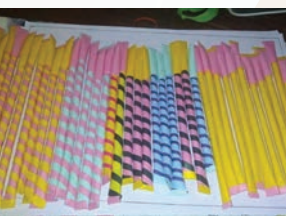


## NEW APPOINTMENTS

Dr. Regy Johnson (Asst. Prof. in Botany)  
(Date of Joining: 07.06.2018)

## National Service Scheme

The NSS units of 41 A & B of Bishop Moore College continues to uphold its motto, "Not Me But You" through its various activities within the campus and in the community under the leadership of the Programme Officers, Mrs. Deepa Thomas and Dr. Saji Samuel. Mr.Vimal O. and Ms. Gifty Annamma Saji served as the volunteer secretaries.



Paper Pens

### 01-07-2019 (General Meeting)

Dr. Saji Samuel and Mrs. Deepa Thomas were appointed as Programme Officers. Action plan for the upcoming year was outlined in the meeting.

### 11-07-2019 (Paper Bag making)

NSS volunteers visited GGHS, Mavelikara and Bishop Hodges Higher Secondary School, Mavelikara and gave training for making paper bags. Awareness class on the topic "Eco friendly Paper Bag for Clean Environment" was taken by Programme Officer Deepa Thomas.

### 26-07-2019 (Paper pen Release and Nature Conservation Day Celebration)

As the part of Nature conservation day celebrations NSS volunteers made paper pens and the Principal of the College, Dr Jacob Chandy, released the pen. NSS volunteers made 1000

paper pens for distributing it among the students of the College.

### 01-08-2019 Swatchhta Pakhwada Programme

Dr. Varghese Ani Kurian (Associate Professor of Commerce, Staff Secretary and former N.S.S. P.O) inaugurated the Swatchhta Pakhwada Programme.

### 03-08-2019 Hepatitis Awareness Programme

Hepatitis Awareness programme was conducted and Smt. Jaya N., Junior Health Inspector, PHC, Iravankara led the class.

### 06-08-2019 Hiroshima day Observance



A skit based on the Second World War was performed at the College campus. A samadhana sandesha rally was taken out from the College campus to Buddha Junction, Mavelikara.



### 12-08-2019 Flood Relief activities

NSS volunteers collected dress, food and sanitary items and gave it to Wayanad Collectorate.

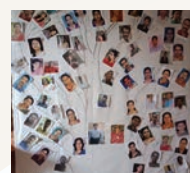


### 15-08-2019 Independence Day celebration

Together with NCC girls unit of Bishop MOORE College, the NSS volunteers celebrated the 73<sup>rd</sup> independence day. College Principal Dr.Jacob Chandy hoisted the National flag.

### 21-08-2019 & 29-08-2019 Anti drug awareness class

An anti-drug awareness class was organized for the degree students. Mr.P.Saji Kumar, Excise Preventive Officer, led the class.



### 05-09-2019 Guru Vandanam

In connection with Teachers' Day celebration, a collage with the picture of teachers was prepared and exhibited in the College campus.

### 16-09-2019 Poshan Abhiyaan- Nutritional awareness programme

NSS volunteers organized a nutritional awareness campaign in connection with Poshan Abhiyaan among the students of the campus. The important topics covered were the issues



of eating disorders, malnutrition, impact of fast food etc. They also pointed out the importance of breakfast and balanced diet for the healthy life style.

### 11-10-2019 Varayarangu-2019

A drawing exhibition was organized. The pictures drawn by our students were exhibited. Krishna Janardhanan former Associate Professor, College of Architecture, Kollanthuru, inaugurated the exhibition. After the inaugural function, a workshop was conducted and Prof. Krishna Janardhanan interacted with the students who had interest in drawing and he introduced various techniques of drawing. Mr. Ajay Arjun, S1 B.Sc. Chemistry, Mr. Ghana Shyam, S3 B.Sc Biotechnology and Mr. Bharath Bose S1 B.A English won the prizes for various events.



### 24-09-2019 NSS day celebration

NSS volunteers collected around 200 lunch packets and distributed them in district government hospital, Mavelikara in connection with NSS Day celebrations.

### 02-10-2019 Railway Station Sramadhan



In connection with Gandhi Jayanthi, NSS volunteers cleaned the premises of Mavelikara railway station. Mr. Easwaran Namboothiri, Station Master, Mavelikara inaugurated the function. Mr. George Varghese, Station in Charge addressed the volunteers.

### 05-10-2019 One Day State Leadership Camp at BJM Govt. College, Chavara

Anoop J. Prakash, S3 B.Sc Mathematics par-

ticipated in the one day state leadership camp held at BJM Govt. College, Chavara.

### 10-10-2019 & 11-10-2019 Two Day Residential training Programme on Palliative Care

Mufeeda Majeed, second year volunteer participated in the Two Day Residential training Programme on Palliative Care held at Senate chamber, University of Kerala, Thiruvananthapuram.

### 31-10-2019 Observance of Unity Day & Orientation for first year NSS volunteers



Mavelikara took the orientation class

NSS volunteers took pledge of unity on the Unity Day. Dr. Harichandran, former NSS P.O, Bishop Moore College, Mave-

### 14-11-2019 Children's Day celebration

Three groups of volunteers went to C.M.S.L.P School, Kallumala, Government U.P School, Arunoottimangalam and Jyothis (special school for children suffering from down syndrome) and conducted cultural activities, storytelling and painting activities among the students.



### 14-11-2019 to 16-11-19 Volunteer Leadership Camp

Vimal O. and Gifty Annamma Saji, NSS volunteer secretaries attended the three days leadership Programme held at Students Center, Thiruvananthapuram.

### 19-11-2019 Ekata Din Pledge

In connection with Ekata Din observance, all the volunteers took pledge.

### 28-11-2019 Debate on Religion and Human beings

Debate was organized on the topic Religion and Human beings at the College auditorium. Dipu Joseph, Assistant Professor in Politics was the moderator.



### 7-12-2019 One Day Workshop

NSS units 41 A & B and Primary health center Iravankara organized a one day workshop on Life style diseases. Sheeba Madhu, Health standing committee Chairperson, inaugurated the workshop. Meera, Project Manager District Mental Health Programme, Saji Kumar Excise Preventive Officer, took classes on various topics.



### 11-12-2019 Observance of Human right day

A flash mob of NSS volunteers spread awareness on the need to stop violence against women at the private bus stand, Mavelikara.



### 12-12-2019 ( Palliative care unit and anti-drug club inauguration & Awareness class on drug abuse)

Prof Anu Mathews, Vice Principal, Bishop Moore College inaugurated the palliative care unit. Mr. Saji Kumar, Excise Preventive Officer inaugurated the antidrug unit. After the inauguration, Sajikumar delivered an awareness talk on the topic of drug abuse.



### 22-12-2019 to 28-12-2019 (Special Annual Camp)

The seven-day NSS Special Annual Camp was held at C.M.S. School, Kattanam. Prof. V. Vasudevan, Grama Panchayat President inaugurated the camp by planting a tree sampling near the school office. 100 volunteers participated in the camp.



### 01-01-2020 ( Karuthal)

As the part of new year celebration, grocery kits were distributed to two poor families.





### 03-01-2020 Poster competition on drug abuse

A poster competition on drug abuse was conducted. Around 60 students participated in the competition.



### 10-01-2020 Nadan Kalotsavam at CMS College, Kottayam

Volunteers participated in the Nadan Kalotsavam organized by Malayalam department, CMS College, Kottayam secured the first prize.



### 17-1-2020 to 20-01-2010 Nature Camp

A Nature Camp was organized for the second year NSS volunteers. The destination was Vallakkadavu, Periyar Reserve forest Idukki. Volunteers actively participated in trekking, bird watching and in seminars.



### 22-01-2020 Crutches handed over to physically challenged

Crutches were handed over to second semester B.A English student of Bishop Moore College who is physically challenged.



### 26-01-2020 Republic Day Celebration

National flag was hoisted by the College Principal Dr. Jacob Chandy. After the flag hoisting, volunteers visited the Smrthi mandapam of Lansnaik Sam Abraham who lost his life in Kashmir. They then

visited his house and handed over a sketch of his to his parents.



### 30-01-2020 Gandhi Smrithi

Prof. Dipu Joseph, Assistant Professor in Politics, Bishop Moore College took an orientation on Gandhi Smrithi.

### 01-02-2020 Palliative Care Unit Alappuzha district meeting



A meeting of the Students Initiative in Palliative Care, Alappuzha District, was held at Bishop Moore College. Principal, Dr. Jacob Chandy inaugurated the meeting. Dr. Letha, Associate Professor, T.B. Medical College, Alappuzha gave training to the student volunteers for the palliative care programme. About 100 volunteers from various colleges in Alappuzha District participated in the training session.



### 21-02-2020 to 27-02-2020 National Integration camp

Vimal O., Volunteer Secretary, participated in the National Integration Camp conducted at Kuttikkanam from 21-02-2020 to 27-02-2020.

## SPORTS REPORTS 2018-19

### University Positions

Runners in the Kerala University Judo (Men) intercollegiate championship 2018-19.

Runners in the Kerala University Basketball (Women) intercollegiate championship 2018-19

Third position in the Kerala University North Zone intercollegiate Volleyball (Men) Championship 2018-19.

Winners in the Alapuzha District Junior Volleyball (Men) championship 2018-19.

Runners in the Alapuzha District Basketball (Women) championship 2018-19

Third position in the Kerala University Netball (Women) Intercollegiate championship 2018-19

Third position in the Kerala University Chess (Women) Intercollegiate championship 2018-19.

### University players

Jalak Sharma (S6 B.Com)

Akhila (S4Eco)

Parsoon (S4 Eng)

Sidharth (S6B.Com)

Vipin V (S4Mala)

Varsha (S4 Maths)

Anu Babu (S4B.Com)

Jiji Kunjumon (S5 Eco)

Simi Mathew (S5 Bot)

Abhijith Chandran (S2 B.Com)

Softball & Baseball

Judo

Judo

Judo

Volleyball

Chess

Basketball

Basketball & Netball

Basketball & Netball

Rowing

### Other Events..

Inter Department game Conducted: Badminton, Throw ball, Volleyball, Football, Cricket

### Intercollegiate Participation

Volleyball

Judo (men & women)

Wrestling (men & women)

Softball (men)

Netball

Baseball

Basketball

Athletics



Bishop Moore College Athletic team participated in the march past ceremony of the University of Kerala, Annual Athletic meet 2018-2019



College Football team participated in the Kerala University intercollegiate championship held at TKMCE Kollam and Reliance Youth Football Championships at Kollam.



# SPORTS REPORTS 2019-20



Runners in the Kerala University Basketball (Women) intercollegiate championship 2018-19 Organized by Mar Ivanious College Trivandrum.



Winners in the Alapuzha District Junior Volleyball (Men) championship held at Cherthala.



Interdepartmental Football Championship



Winners in the All Kerala Intercollegiate Volleyball championship organized by TKM College of Engg. Kollam.



College Basketball team with C V Sunny (International Basketball Player and Indian coach)



Winners in the All Kerala Intercollegiate Basketball (Women) championship organized by Mar Gregorius College Punnapra, Alapuzha.



Runners in the Kerala University Judo (Men) intercollegiate championship held at central stadium 2018-2019.



College wrestling team in action. Kerala University intercollegiate wrestling championship organized by university college Trivandrum.



College softball team participated in the Kerala University intercollegiate championship held at university stadium.



Third position in the Kerala University Chess (Women) Intercollegiate championship.

## University Positions

Winners in the Kerala University Judo (Men) intercollegiate championship 2019-20.

Winners in the Kerala University Baseball (Men) intercollegiate championship 2019-20.

Second position in the Kerala University Chess (Women) Intercollegiate championship 2019-20.

Runners in the Kerala University Wrestling (Men) intercollegiate championship 2019-20.

Third Position in the Kerala University Judo (Women) intercollegiate championship 2019-20

Third position in the Kerala University North Zone intercollegiate Volleyball (Men) Championship 2019-20.

Runners up in the Alapuzha District Basketball (Women) championship 2019-20

## University players

Sumesh (S6 Chem)	Baseball
Abhiram (S4 Zoo)	Baseball
Vysak B (S6 Bcom)	Baseball
Manikanttan (S4 Eng)	Wrestling
Govind (S4 Eco)	Wrestling
Abex (S2 B.com)	Wrestling
Nowfal (S2 Eng)	Judo
Rohit (S2 Eng)	Judo
Varsha (S6 Maths)	Chess
Ionna Sebastain (S6 Maths)	Chess
Jiji Kunjumon (S5 Eco)	Basketball
Abhijith Chandran (S6 B.Com)	Rowing

## Other Events..

Conducted Annual Athletic Meet in the College Ground.

Inter Departmental games conducted : Badminton, Throw ball, Volleyball, Football, Cricket

## Intercollegiate Participation

Volleyball, Judo (men & women), Baseball, Wrestling (men & women), Basketball, Softball (men), Athletics, Chess (M&W), Power lifting, Best Physique,



College Football team participated in the Kerala University intercollegiate championship held at TKMCE Kollam and St Aloysius College Edathuva.



Winners in the Kerala University Judo (Men) intercollegiate championship held at Govt. Agricultural College, Vellayani 2019-2020. College wrestling team in action. Kerala University intercollegiate wrestling championship organized by University College, Thiruvananthapuram



Winners in the Kerala University Baseball (Men) intercollegiate championship organized by Govt College, Attingal.



Second position in the Kerala University Chess (Women) Intercollegiate championship



Third Position in the Kerala University Judo (Women) intercollegiate championship held at Govt. Agricultural College, Vellayani 2019-2020.



Bishop Moore College Organized the Kerala University Intercollegiate Chess (M&W) Championship at College Auditorium.



Bishop Moore College Kabadi (M) Team in action. Intercollegiate tournament organized by S N College Cherthala



Bishop Moore college softball team participated in the Kerala university intercollegiate softball championship held at NSS College, Nilamel.



Runners in the Alapuzha District Basketball (Women) championship.

## Career Guidance and Placement Cell

### Career Orientation Programme

An orientation programme was organized for final year science students on Monday 20<sup>th</sup> January 2020. The programme was organised in association with National Employment Service (Kerala), University Employment Information and Guidance Bureau of the University of Kerala. Sri. Ratheesh Kumar, a specialist in career related matters briefed the students about the myriad opportunities available.



### Career Orientation Program for Competitive Exams

The programme was organised on Wednesday 30<sup>th</sup> October 2019. Sri. Jithin John briefed the students about the career related matters.



### Civil Service Orientation Programme

An orientation programme was organized for the civil service aspirants. The program was organized on Monday 24<sup>th</sup> February 2020 in association with Amrutha Civil Service Academy.

### Skills Development Courses

The College signed an MoU with Keltron to start Skill Development Courses of the National Skills Development Corporation

(NSDC). The courses would start during the academic year 2020-21. As per the agreement inked, the College can also develop its own courses that would develop the skills of the students



### Orientation Programme for GD and Interview

The programme was organised on 22<sup>nd</sup> January 2020. Classes were handled by Sri. Alex Johnson and Jaidev P.



### Orientation Programme for Bank Exams

Orientation Programme for Bank and Competitive exams was organised on 2<sup>nd</sup> August 2019.

## WOMEN'S CELL AND WOMEN'S STUDY UNIT

The activities of the Women's Cell and Women's Study Unit for the academic year 2018-19 started off with a formal inauguration of the Extension clubs by the Principal Dr Jacob Chandy and a briefing of the various proposed activities by the College level Extension Club Coordinator Dr Prakash Williams.



Motivational talk by Prof Susy Abraham

The Women Empowerment Cell based its activities on the slogan 'To Equip and to Ennoble'. On January 30<sup>th</sup>, 2019 a motivational talk was delivered by Prof. Susy Abraham on the topic 'Young Women and Their Challenges'. The speaker who was well informed could convey the idea successfully that equipping ourselves in the present scenario is possible only by getting to know what happens in the world around and forming our own opinions and stand

points. She stressed the need for holistic development and a sound attitude. The talk was followed by an interactive session in which the students freely expressed their views and got expert opinion on the various issues they faced. The programme was coordinated by Prof. Sajini Deena Mathew who welcomed the resource person. The meeting was presided over by the IQAC Coordinator Dr Renjith Mathew Abraham. The meeting began with a prayer song and ended with a Vote of Thanks by the students.

As an extension of Womens' Day programmes a Poster Workshop and Poster Competition was held in the College under the aegis of the Alapuzha District wing of Women and Child Development Cell on Feb 7<sup>th</sup>, 2019. The programme was coordinated at the College level by Prof. Suma Alexander, Convenor, Womens Cell. The Award Ceremony was inaugurated by the Principal Dr Jacob Chandy. The awards were given away by the Principal, Women and Child Development Project Officer Smt. Rachel David and the resource persons of the programme Prof. Renjith and Prof. Benoy from Fine Arts College, Mavelikara. Susan Mary Eapen of S6 BCom bagged the first prize and Varsha Mohan of S6 English won the second prize. The winners and participants were given certificates and mementos.

### Poster competition

Flower making sessions using paper and fabric were conducted by our alumni Akhila Krishnan. The programme was coordinated by Prof Sajini Deena Mathew.



The Women's Cell organized a talk and interactive session on the topic "Young Women and Mental Health" on 23-01-2020. It was indeed a privilege to have Dr Manju Peethambaran, an alumnus of the College, at present the Nodal Officer, Alapuzha District Mental Health Programme to engage the session.



Dr Manju Peethambaran on "Young Women and Mental Health"

Besides providing an awareness of the common mental health issues among young women, she also gave effective tips to cope up with stressful situations. The Vice Principal of the College, Prof Anu Mathews offered felicitations. Prof Suma Alexander, the programme coordinator welcomed the gathering and Ms Shanti Krishna of S4 Economics proposed the vote of thanks.

In connection with the International Women's Day, the Junior Chamber International (JCI) Mavelikara in association with the Women's Cell of the College conducted a Self Defence training session for 50 students on 04-03-2020. The trainer, Vineetha T (Karate Black Belt) and her associate provided training to the students on the different practical self defence techniques. The Women's Cell Coordinator Prof Suma Alexander welcomed the Junior Chamber members and the participants. Vice Principal Prof Anu Mathews, Prof Jills Varghese and Adv Preetha of JCI offered felicitations. Ms Neethu Ponnu Chandy, S2 MA English proposed the vote of thanks.



Self-Defence Training

Women's Day was celebrated on 09-03-2020. As per the direction of Kerala Govt, in view of the outbreak of Covid 19, the gathering was limited to 75 students. Kerala Sahitya Academy Award winner for Short Story 2018, K Rekha (Asst Prof, Dept of Malayalam), the pride of Women's fraternity of our College was felicitated by the Women's Cell. The Programme Coordinator, Prof Suma Alexander welcomed the gathering. The Principal, Dr Jacob Chandy presided over the meeting. Prof Anu Mathews, the Vice Principal offered felicitation on Women's day and Dr Anne Angeline Abraham, HOD, English, felicitated the award winner. The Women's Day message was delivered by Prof K Rekha (Writer) on the topic *Sthree: Sangalpavum Anumanavum*. This was followed by Bottle Painting tips by Shanti Krishna of S4 BA Economics. Amju Krishnan of S4 MA English proposed the vote of thanks.

### Women's Day Celebrations

The Women Study Unit coordinator Prof K Rekha organized the activities of the College unit for the academic year 2018-19. The girl students were actively involved in discussions and debates conducted on a weekly basis. They were also engaged in arts and crafts.



### Art and Craft Session

- Prof Somy Cherian conducted sessions on flower making and colourful bangle making using colourful threads and discarded bangles.
- The student leader Aiswarya of S3 English gave leadership and training in paper crafts.
- A Whatsapp group for 2018-19 batch of Women Study Unit was formed that became a platform for active discussion on Women's issues on a daily basis.
- Various issues that Women face were discussed and heated debates took place.



Pre-Marital Counselling and Seminar by Kerala State Vanitha Commission.

A one day seminar and pre-marital counseling under the aegis of the State Vanitha Commission was hosted by the Women's Study Unit led by Prof K Rekha and Prof Somy Cherian on Aug 2<sup>nd</sup> 2019. Adv M S Thara (Member, Vanitha Commission) led the session on legal issues related to Women. Dr Anoob Thomas took a session on physical and mental health for young women. Kerala Police Cyber Cell Officer Sri Jayakumar led

the session on Cybercrimes. The seminar was highly beneficial to the student community. The Principal of the College, Dr Jacob Chandy presided over the inaugural meeting. He delivered the Presidential address after a formal welcome by Prof Suma Alexander (Women Cell Coordinator).

## NATIONAL CADET CORPS

NCC (SW Army) Unit in the College consists of 160 cadets under 3 K Girls Bn, Kollam. The main intention of NCC is to provide military training to the cadets inculcating in their minds the twin idea of unity and discipline. The enrolment of the cadets was done by a team headed by the Commanding Officer Col. Bhagwat along with ANO Capt Cigi P George, PI Staff and GCIs. After the enrolment, sessions commenced in which cadets were imparted knowledge and training in various military activities like drill, map reading, weapon training, field craft and battle craft, etc.

### 2018-2019

Following cadets participated NIC at Alappuzha. • Cdt Athira • Sgt Maya A • Sgt Jenika Krishnan • Cdt Aparna

SUO Akhila S Pillai participated in • Special NIC Ladak. • Rock climbing training camp Gwalior. • PreRD-3 at Calicut.

Sgt Keerthi Krishna participated in EBSB at Aurangabad and also in the Pre-RD.

Cadets were engaged in several other activities as indicated below:

- Cadets celebrated World Environmental Day on 5th June by planting saplings the programme was inaugurated by Principal of the College, Dr. Jacob Chandy in the presence of Vice Principal, Professor Anu Mathews, Capt. Cigi.P.George, other teaching staff and all the cadets. • A seminar was held on the Surgical Strike Day and the talk was delivered by Col. Dr.G.G.Mathews. • The International Yoga Day was celebrated on 21st June under the leadership of the cadets • Celebration of Re-

public Day was held on January 26 and Independence Day was celebrated on August 15.

### 2019-2020

- Yoga day - celebrated on 21<sup>st</sup> June 2019
- Anti-drug awareness programme - On 26<sup>th</sup> June 2019: Anti-drug rally and a street play were conducted at Kallumala Junction.
- Independence Day: Flag hoisted by Principal Dr. Jacob Chandy on 15<sup>th</sup> August 2019. Flood relief materials were collected and distributed to the needy on the same day.
- Swachh Bharat Abhiyan: On 2<sup>nd</sup> & 3<sup>rd</sup> October 2019 cadets cleaned the College Campus, Kallumala Junction and Railway Station and conducted a street play to inculcate awareness among people.
- NCC Day: Last Sunday of November: Cadets along with ANO spent their time with mentally challenged children at 'Jyothis'. To make that day a memorable one they staged cultural programmes and had lunch together.
- Plogging: Cadets took part in plogging on 7<sup>th</sup> Dember2019.
- Republic Day: On 26<sup>th</sup> January 2020 Vice Principal Prof. Anu Mathews hoisted the national flag and addressed the audience.
- Essay, Poster Making, Quiz and Elocution competitions were conducted on parade days for cadets to sharpen their skills.
- B & C certificate exams - 50 cadets appeared for B certificate and 55 cadets appeared for C certificate examinations and passed the same with high grades.

### ACHIEVEMENTS

- JUO Asna Nizar represented Kerala Directorate and participated in the Mavlinkar shooting competition held at Gujarat and was also awarded with the Chief Minister's best cadet award of 2019-2020. She attended Army Attachment Camp at Bangalore.
- Sgt. Ashi Nair represented Kerala & Lakshadweep Directorate and participated in the Thal Saianik Camp at Delhi.
- SUO Maya A attended the rock-climbing training camp at Gwalior and TSC IGC at Calicut.
- Cdt Jestina Kunjumon attended the Mount Everest Expedition Screening Camp at Bangalore.
- JUO Nayna Vittal Das attended the Pre-RD 2 and EBSB at Thrissur.
- Sgt Nandana represented Kerala and Lakshadweep and participated in the EBSB camp held at Delhi and in the Pre-RD -2.
- Sgt. Amrutha M attended EBSB held at Thrissur and Pre RD -1
- Sgt. Athira Abraham attended Pre-TSC and EBSB held at Udaipur.
- Cpl. Keerthi Krishna S attended EBSB held at Bharathpur.
- Cpl. Niya Nazeer attended EBSB held at Leh.
- Cpl. Vrinda B attended EBSB held at Udaipur.
- Cpl. Aryamol K S, Ankitha R Nair and Aparna A S attended EBSB held at Kasaragod.



## SCIENCE CLUB

The Science Club commenced its activities for the academic year 2019-20 on 22/09/2019 with Dr. Arun Aravind (Asst. Professor, Dept. Of Physics) as Coordinator. Aiswarya Unnikrishnan of Sem 3 Physics was selected as the Secretary. Every Thursday the Club Members brainstormed on scientific issues and chalked out the future plans and discussed their implementation from 3:30 pm onwards. Several programmes for the students from within and outside the College were planned and executed successfully this year.

### 1. Inauguration of Science Club Activities

The inauguration of Science Club Activities for the academic year 2019-2020 was held on 26<sup>th</sup> September 2019 from 1.30 to 3.30 pm in the E-learning room, Dept of Physics. Inauguration of Science Club activities for the current academic year was done by Dr. Prakash Williams, Convenor Extension Activities, Bishop Moore College.

**2. National Seminar on Scientific Solutions for Sustainable Rebuilding of Kerala in the Post Flood Scenario** was organized jointly by the Department of Physics, IQAC, DBT STAR College Scheme and Science Club in association with Directorate of Environment & Climate Change (DoECC), Govt. of Kerala, on **09-10 Jan 2020**. Famous activist Smt. Medha Patkar (Indian Social Activist, Founder member of Narmada Bachao Andolan) and Dr.M.C.Dathan (Scientific Advisor to the Chief Minister of Kerala) delivered the keynote talks.

### 3. Sci-Rostrum '2020 - Inauguration

The National Science day Celebrations of the College spanned a period of three days from 26, 27 & 28 February 2020.

The Highlights of the programme were

- Intercollegiate PowerPoint presentation competition
- Science lecture by Dr. R. B. Rakhi, UGC Assistant Professor, Department of Physics, Karyavattom
- Science lecture by Unnikrishnan Potty Research Scholar, Astronomical Observatory of the Jagiellonian University, Krakow, Poland
- Slideshows and Video presentations

An Intercollegiate power point presentation competition on the topic **"Women in Science"** was conducted on 26<sup>th</sup> February 2020. Five groups from different Colleges participated in the competition. Pranav Pradeep and Aiswarya Unnikrishnan of B.Sc Physics, Bishop Moore College, Mavelikara secured the first prize, M. Shivani and Gokul R S of B.A English, Bishop Moore College, Mavelikara secured the second prize. The winners were presented with a cash award and certificate of merit.

A Lecture class was arranged for the students on 27<sup>th</sup> February, 2020. This lecture was delivered by Dr. R. B. Rakhi, Assistant Professor, Department of Physics, Karyavattom and she inaugurated the National Science Day Celebrations. The Inaugural meeting was presided over by Dr. Jacob Chandy, Principal of Bishop Moore College. Dr D Sajan, Head of the Department of Physics welcomed the gathering and Dr. Lija K Joy proposed the vote of thanks.

On 28 February 2020, a slide show was conducted by Mr. Arun Raj R S, Research Scholar, Bishop Moore College, Mavelikara on the topic "Major Discoveries by Women in Science". A science lecture was conducted by Mr. Unnikrishnan Potty Research Scholar, Astronomical Observatory of the Jagiellonian University, Krakow, Poland on the different jobs available in research areas.

## BHOOMITRASENA SCHEME

(BMC-089/ALP/08/10)

'Campus- A Venue for Environmental Enrichment' is the guiding sentiment that drives Bishop Moore College in its march towards excellence. The Bhoomitrasena Scheme of the College mirrors the same sentiment through its activities. This unit has been functioning since 2010, with the financial support of Directorate of Environmental and Climatic Change, Government of Kerala.

### BHOOMITRASENA CLUB INAUGURATION (2019-2020)

Dr. Prakash Williams, on 27-09-2019, initiated the activities of Bhoomitrasena (2019-2020) with a motivational talk detailing the scope and the importance of the Club and elaborating the rationale behind the Club. This talk laid out the blueprint for the functioning of the Club, inspiring the students to commit themselves to work for the cause of environmental protection. Principal, Dr. Jacob Chandy inaugurated the activities for the academic year. More than 55 Under Graduate students are the active members of this scheme.

Regular meetings / classes on the activities are held during all Wednesdays or Thursdays. Identity cards were issued for all the members. The Bhoomitrasena team is given below:

FIC : Dr. PRAKASH G WILLIAMS  
Secretary : Ms. Jesna Jose (B.Sc. Chemistry)  
Joint Secretary : Ms. Dhanalekshmi G. (BSc. Zoology)

### WWF PROMOTIONAL TALK:

WWF (World Wildlife Fund) India is a National Volunteering platform for College students. WWF promotional talk was held on 11-10-2019 at the Prof. Elizabeth Mathew Hall. Sri A. K Sivakumar, Senior Education Officer, WWF, delivered the talk. Dr. Jacob Chandy, Principal, Bishop Moore College inaugurated the programme. Dr Prakash Williams, Coordinator, gave the welcome speech and the Vote of Thanks was delivered by Ms. Jesna Jose.

### SAVE ELECTRICITY:

A project on 'Energy Conservation' was planned among the students as. Almost everyone in the Club actively participated in it. Through this programme, the members learned to reduce the use of electricity in everyday life.

### WORKSHOP @ SN COLLEGE, KOLLAM:

Under the Volunteer Engagement Program, WWF launched ECHO (Building Environment Conservation Heroes), an action-packed model for the young volunteers, to connect to the environment, innovate solutions and take action towards a sustainable future. A Workshop was held on 29-10-2019 at SN College, Kollam from 9.am to 4pm. Three club members of Bhoomithrasena scheme Jesna Jose, Aiswarya R, Maanas Baby and Akshaya N. C. participated in the same.

### PAPER BAGS MAKING:

With the motto 'Go Green, Go Clean' a workshop was conducted on 8-11-2019 on 'how to make paper bags' at the Botany Lab by Dr. Prakash Williams. The volunteers made around 300 paper bags. All the bags were distributed to the shops in the vicinity of the College.



**WORKSHOP FOR KUDUMBHASREE MEMBERS:**

On 9-01-2020 a workshop was conducted for 'Kudumbhasree members' as a part of 'National Seminar on Scientific solutions for sustainable Rebuilding of Kerala' in the post flood scenario. This Workshop was organised by the Club, IQAC & Dept. of Physics, Bishop Moore College, Mavelikara in association with Directorate of Environment and Climate Change, Government of Kerala. In this workshop, the kudumbasree members were trained successfully.



**ZERO PLASTIC CAMPUS:**



For doing away with the use of plastic cups and plates, the Club purchased 100 steel glass and 100 steel plates with funding by the Directorate

of Environment and Climate Change, Government of Kerala. It was dedicated for the College use by Dr. Jacob Chandy, the Principal, Bishop Moore College.

**BEAUTIFICATION USING PLASTIC BOTTLE GARDENING:**

On 14-02-2020, with the twin purpose of putting waste plastic bottles to good use and to beautify the campus, the members of the Club filled empty plastic bottles with soil and created hanging and vertical gardens. This proved to be an inspiration for many to replicate the idea.



**SPORTS DAY:**

Bhoomithrasena scheme volunteers distributed boiled drinking water on the sports day of Bishop Moore College (06-03-2020) Water was distributed using steel glass. This programme was aimed to reduce the use of coloured carbonated drinks which are harmful to human health.



**COMPETITIONS:**

**a. Essay competition**

An 'Environmental Essay Competition' was held on 24<sup>th</sup> February, 2019 at the Botany Laboratory, Department of Botany and Biotechnology, Bishop Moore College, Mavelikara. About 30 participants participated in the competition. The cash awards were funded by BPCL.

**b. Paining competition**

A painting competition on Environment was held on 27<sup>th</sup> February, 2019 at the Botany Laboratory, Department of Botany and Biotechnology. About 35 participants were there for the competition. The cash awards were funded by BPCL.



**c. Quiz competition**

An inter-departmental Environmental Quiz competition was held on 28<sup>th</sup> February, 2019 at the Seminar Hall, Bishop Moore College, Mavelikara jointly with BPCL. About fifty-four participants were there for the competition. The cash awards were funded by BPCL, Kochi.

**ONLINE PHOTOGRAPHY COMPETITION:**

Bhoomithrasena organized an 'online photography competition' for the members on theme: 'Lockdown with Nature'. The programme was conducted by abiding with the Covid 19 protocol on June, 5<sup>th</sup>, 2020 in association with 'Environmental Day' celebration. Many participants were there for the competition. Ms. Anjali S. Nair (S3 English) bagged the first prize. Ms. Jahana Fathi (S3 Botany) bagged the second. Ms. Jesna Jose of S3 Chemistry bagged the third position.



**SENSITIZATION ON 'CORONA'**

On 10-03-2020, Corona awareness classes were arranged by the volunteer leaders- Ms. Dhanalekshmi and Ms. Jesna Jose. Also, posters were exhibited in the campus for the prevention of the spread against "CORONA VIRUS".



# STARS OF MOORE

STARS OF MOORE, as the title suggests, is a four phased selection process designed to comprehensively test the outgoing UG and PG students of the college and select the best three. Starting with a general aptitude test, the selection process progresses to a certificate verification round followed by a personal interview round with the grand stage performance round capping it all.

## STARS OF MOORE 2019



Jyothi M  
BA English



Mahadeva A.V.  
BSc Physics.



Keerthi S.N  
MSc Botany

## STARS OF MOORE 2020



Ammju Krishna S.  
MA English



Anju V Mathew  
BSc Physics.



Anju Venugopal  
BSc Mathematics

