

BISHOP MOORE COLLEGE

MAVELIKARA, KERALA, INDIA, 690110



Annual Academic and Administrative Report

2017-2018

Prepared by

INTERNAL QUALITY ASSURANCE CELL

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1. INTRODUCTORY DETAILS

(a) Name & address of the college	Bishop Moore College Mavelikara – 690 110 Ph.0479 2303260,2303230 Fax0479 2303230 E-mail bpmoorecollege@gmail.com Website: bishopmoorecollege.org
(b) NAAC Accreditation level	A Grade (CGPA 3.04) Placed in top 100 college category in NIRF 2018
(c) University to which affiliated	University of Kerala
(d) Name of Panchayat	Thazhakara
(e) Year of starting	1964
(f) Name of Courses offered	B A, B Sc, B Com (Under CBCSS) M A, M Sc (Under CSS) and PhD

2. PROGRAMMES OFFERED

(a) Name of Programmes offered	:
1.	BA English Language & Literature
2.	BA Malayalam Language & Literature
3.	BA Economics
4.	BSc Physics
5.	BSc Chemistry
6.	BSc Zoology
7.	BSc Mathematics
8.	BSc Botany & Biotechnology
9.	BSc Botany
10.	BCom
11.	MA English Language & Literature

12. MSc Physics
13. MSc Analytical Chemistry
14. MSc Botany
15. PhD in Physics
16. PhD in Chemistry

17.(b) Name of Certificate Courses Offered and students admitted

Sl No.	Name of Certificate Course	No. of students completed the course
1	Certificate Course on Apiculture Practices	34
2	Certificate Course in Manual Accounting	41
3	Certificate Course in Research Methodology & Academic Writing	76
4	Certificate Course in Lab Equipment Maintenance	17
5	Certificate Course in Wild Life Biology	82
6	Certificate Course in Fabric Painting	34
7	Certificate Course in Computerised Accounting	40
8	Certificate Course in Theatre Studies	32
9	Certificate Course in Horticulture	43
10	Certificate Course in Bank Project and Document Preparation	40
11	Certificate Course in Human Rights Awareness	22
12	Certificate Course in Communication Skills	33
13	Certificate Course in Communicative English	61

14	Certificate Course in Income Tax and GST	40
15	Certificate Course in Basics of Nutrition and Diet Therapy	71

3. HIGHLIGHTS OF THE ACADEMIC YEAR

The College was ranked **76** in Colleges Category in **National Institute Ranking Framework (NIRF) 2020** by the Ministry of Human Resources Development (Ministry of Education), Govt. of India

4. STUDENTS STRENGTH DURING 2017-18

	2017 Admission	2016 Admission	2015 Admission
English	47	43	51
Malayalam	47	38	43
Economics	49	48	38
BA TOTAL	143	129	132
Commerce	95	92	92
BCom TOTAL	95	92	92
Physics	31	30	35
Chemistry	34	33	26
Botany	35	32	35
Biotech	25	27	26

Zoology	31	34	32
Mathematics	40	42	34
BSc TOTAL	196	198	187
MA English	18	15	
MA Economics		-	
MA TOTAL	18	15	
MSc Physics	11	12	
MSc Chemistry	12	12	
MSc Botany	12	12	
MSc TOTAL	35	36	
TOTAL	487	470	412
GRAND TOTAL	1369		

(a) Number of Day scholars : **1264**

(b) Number of Boarders : **105**

5. STUDENTS ADMITTED DURING 2017-2018

Programme name	Programme Code	Number of seats sanctioned	Total Number of Students admitted	Students admitted from seats sanctioned over and above sanctioned (supernumerary)	Total number of students admitted from sanctioned posts excluding supernumerary seats
BA Economics	150	50	52	2	50
BA English	130	48	50	2	48
BA Malayalam	115	48	51	3	48

BSc Botany	245	38	37	0	37
BSc Botany and Biotechnology	247	29	27	0	27
Chemistry	235	35	35	0	35
BSc Mathematics	220	44	43	0	43
BSc Physics	230	38	37	0	37
BSc Zoology	250	38	38	0	38
Bcom	159	90	96	6	90
MSc Analytical Chemistry	635	12	12	0	12
MSc Botany	645	12	12	0	12
MSc Physics	630	13	12	0	12
MA English	530	18	18	0	18
TOTAL		513	520	13	507

6. DETAILS REGARDING SCHOLARSHIP

Sl. No.	Name of scholarship	Under Graduate		Post Graduate	
		No.	Amount	No.	Amount
1	2	3	4	5	6
1	Higher Education Scholarship	1	7500	2	1,20,000
2	University Merit Scholarship	Data not updated in University website			

1. Fee concession and stipend for the year 2015-16

(a) Number of students enjoying the concession

Sl. No.	Category	Under Graduate		Post Graduate	
		Boys	Girls	Boys	Girls
1	O B C Students	35	111	-	-
2	Forward Community (Students under KPCR)	108	288	2	21
3	Socially & Economically B C	-	-	3	17

(b) Students enjoying stipend from the Harijan Welfare Department

Graduation				Post Graduation			
Boys	Girls	Amount	Month up to which paid	Boys	Girls	Amount	Month up to which paid
1	2	3	4	5	6	7	8
89	171	17,34,000	May, 2017	1	13	84,000	May, 2017

7. UNIVERSITY EXAMINATION RESULTS 2017-18 AND

GRADUATION OUTCOMES

Name of Programme	No. of students appeared	No. of students passed
BA Malayalam Language, Culture & Literature	43	25
BA English Language and Literature	52	46
BA Economics	38	27
BCom	92	80
BSc Mathematics	34	29
Bsc Physics	35	30
BSc Chemistry	26	20
BSc Botany	35	29
BSc Botany & Biotechnology	26	19
BSc Zoology	32	28
MA English Language and Literature	15	14
MSc Physics	13	10
MSc Analytical Chemistry	12	7
MSc Botany	11	10
TOTAL	464	374

(b) Distinction, Rank in the University Exam 2017-18:

1. **SHRUTHY PRABHAKAR** : **Third Rank in MSc Physics**
2. **ASWINI MOHAN** : **Third Rank in MSc Analytical Chemistry**
3. **ANJALY MARIAM GEORGE** : **First Position for BCom**
4. **JISA ANN SABU** : **Third position for BSc Botany & Biotechnology**

(c) No. of research papers published : (*Detailed list given as Annexure I*)

International	: 19
National	: 04
Book chapters	: 02
(e) No. of PhD's produced	: 1

8. DETAILS REGARDING FULL-TIME TEACHING STAFF AS ON 01-11-2017

Sl.No	Subject	Sanctioned Strength	Total
1	English	12	11
2	Malayalam	5	2
3	Hindi	2	1
4	Sanskrit	1	1
5	Mathematics	3	1
6	Statistics	1	0
7	Physics	9	6
8	Chemistry	9	7
9	Zoology	4	3
10	Botany	8	4
11	Biotechnology	2	2
12	Biochemistry	1	1
13	Economics	2	2
14	History	1	1
15	Political Science	1	1
16	Commerce	7	3

17	Physical Education	2	2
TOTAL		70	48

9. COMMUNITY DEVELOPMENT ACTIVITIES; NEW CONTRIBUTIONS

IN TEACHING LEARNING PROCESS

1. National Seminars/Refresher Courses

- a) **Refresher Course on Experimental Physics** (jointly sponsored by the three Science Academies' of India) was conducted during 13-28 September 2017.
- b) **Refresher Course on Condensed Matter Physics** (jointly sponsored by the three Science Academies' of India) was conducted during 2-16 May 2018.

2. Workshops

- a) **Lecture Workshop on "Advances in High Energy Physics"** was conducted during 12-14 July 2017 (jointly sponsored by the three Science Academies' of India).
- b) **Science Academies' Lecture Workshop on Advances in Spectroscopic and Microscopic techniques**, was conducted during 15-17 November 2017
- c) **Science Academies' Lecture Workshop on Advances in Condensed Matter Physics**, was conducted during 7-9 March 2018
- d) **Two Day Workshop on Radiochemistry** jointly organized by Indian Association of Nuclear Chemists and Allied Scientists-Southern Regional Chapter (IANCAS-SRC) and Department of Chemistry was held on 2nd and 3rd January 2018. Hands-on training on radioactive techniques and poster presentation competitions were conducted.
- e) **A workshop on GST** was organized by **Department of Commerce** in October 2018. C.A Harikumar, President, Travancore Accounts Society was the Chief Guest and Speaker.
- f) **A workshop on GST** was organized jointly by the Department of Commerce and Economics in February 2018. Dr. Philip M P, Associate Professor and Head, Department of Economics, S B College, Changanacherry delivered the key-note.
- g) Hands on Training on "**Computer aided statistical techniques**" was organised as part of DBT STAR College Scheme on 19th March 2018 by Dr. N.K. Balasubrahmaniam.
- h) Hands on Training on "**Aquaponics**" was organised on 23rd March 2018, as part of DBT STAR College Scheme. Dr. S. Mithun, Assistant Professor, Dept. of Aquatic Biology and Fisheries, Kariavattom served as Resource person in this training.

- i) A workshop on ‘**Thesis Writing and Data Presentation**’ was conducted on 12.03.2018 for the VI semester B. Sc. Botany, VI Semester B.Sc. Botany and Biotechnology and I and III semester M.Sc. Botany students.
- j) A hands on training programme on “**Plant Identification and Scientific Illustration**’ was conducted on 24.03.2018 for the sixth semester B.Sc. Botany and B.Sc. Botany and Biotechnology students.
- k) One-day **Self-Defence Training** for 63 participants by police personnel of the women's wing of Kerala Police (Janamaithri Vanitha Police), led by senior civil police officer, Smt. Sulekha Prasad and her team.
- l) One day **Flower arrangement training programme** was organised by Women’s cell on February 23, 2018. Prof.Prabha Alice Varkey, an expert in the field, gave demonstration and hands on training to the students
- m) **Fabric painting and needle work training programme** was organised for 50 participants on 7th and 14th of March 2018 by Women’s cell. Smt.Geetha Williams was the resource person.
- n) **Two Days Workshop** on Aurdino Robotics for BSc Students, was led by Mr. Harish Kondur (Kristukula Mission School, Madhya Pradesh) on 12 and 13 June, 2017.

12. STUDENTS/FACULTY ACHIEVEMENTS

3. Teacher awards

1. Ms. Linda E. Jacob received the ‘**Best NSS Programme Officer**’ award
2. Dr. Asha Ramachandran received one month’s **FLAIR research fellowship** from Govt. of Kerala and it was availed at IIT Mumbai from 04.06.2017 to 03.07.2017.
3. Bishop Moore College received the ‘**Best NSS Unit**’ award in the University
4. College won **Bhoomithrasena Award** from Directorate of Environment and Climate change, Govt. of Kerala
5. Physics, Chemistry, Zoology and Botany Departments of the college were selected for strengthening of support for undergraduate education under the **DBT STAR COLLEGE Scheme** of Department of Biotechnology, Govt. of India

5. Student awards

- ❖ No. of students selected awarded summer research fellowship : **4**
 - a) **Megha Murali** (*MSc Physics*) with fellowship from JNCASR, Bangalore, completed project work at JNCASR, Bangalore, April-May 2017

- b) **Revathy Subbavally** (MSc Physics) with fellowship from JNCASR Bangalore, completed project work at JNCASR, Bangalore, April-May 2017
 - c) **Anusha Unni** (S6 Botany & Biotechnology) with fellowship from Indian Academy of Sciences, Bangalore completed project work at ICT Mumbai, April-May 2017
 - d) **Arunya Raj** (S4 Physics) with fellowship from Indian Academy of Sciences, Bangalore completed project work at IIT, Gandhinagar, April-May 2017
- ❖ No. of students who cleared NET/SET/UGC-CSIR during 2017 : **7**
- a) **Akhil Thomas Panicker** of BSc Physics (2013-16) batch cleared NET Physical Sciences 2017
 - b) **Nigina** of MSc Botany (2014-16) batch cleared MSc Botany (2014-16) CSIR JRF NET Life Sciences 2017
 - c) **Athira R K Nair** of MSc Botany (2014-16) CSIR JRF NET 2017
 - d) **Sneha Mohan** of BSc Zoology (2011-14) cleared CSIR JRF NET 2017
 - e) **Amrutha Mohan** former student of BA English cleared UGC JRF NET 2017
 - f) **Neena Thomas** former student of BA English cleared UGC JRF NET 2017
 - g) **Pavithra V. Prabhu** former student of BSc Chemistry(2012-15) cleared UGC NET 2017
- **Devika B. Kumar** of first year BSc. Physics got **Prathibha Scholarship (KSCSTE) 2017-18**
 - **Ms. Jyothi M** of 4th semester BA English won the third prize in Hindi Recitation at **University Youth Festival March 2018**
 - **Mr. Jesty James & Mr. Justin V. Saji** of S2 Mathematics won the 2nd prize in the **All Kerala Intercollegiate Mathematics Quiz Competition** conducted by Department of Mathematics, NSS College, Pandalam on 15th March, 2018
 - **Mr. Vipin Venugopal & Ms. Sreelekshmi** of S6 Mathematics won the 1st Prize in the **All Kerala Intercollegiate Mathematics Quiz Competition** conducted by Department of Mathematics, JBMCT, Kayamkulam on 27th March, 2018
 - **Mr. Rohit Paul Jose** – S3 Mathematics won the **Best Performer prize** at the Python Workshop conducted in MACFAST, Thiruvalla.
 - **Ms. Megha Mohan and Ms. Liya Merin Stanly** secured first prize in **intercollegiate slide show competition** conducted by the Dept. of Botany and Biotechnology, MSM College, Kayamkulam on 2-3, February 2018.
 - **Ms. Keerthy S.N. and Ms. Anusha Unni** secured first and second prize respectively in **paper presentations in a State Level Seminar** on ‘Lifestyle diseases in modern era: a major threat to Kerala population’ organized by the Dept. of Biochemistry, Sri Ayyappa College, Eramallikkara on 20.12.2017.
 - **Ms. Arathy S., Ms. Riya Mary Cherian and Ms. Jesly Elsa Thomas** secured second prize in **Quiz contest** on “Microbiome in palm health management” held at ICAR-CPCRI, Kayamkulam on February 15, 2018
 - **Ms. Riya Mary Cherian** secured second prize in **Elocution competition** on “Microbiome in Pal Health Management” held at ICAR-CPCRI, Kayamkulam on February 15,2018

● 14. DETAILS REGARDING STUDY TOUR 2017-18

Sl. No	Courses/subjects in which tour were arranged	No. of students participated	Total amount spent Rs
1	B Sc Mathematics	30	1,02,000/-
2	B Sc Physics	21	75,600/-
3	B Sc Chemistry	28	98,000/-
4	B Sc Botany	29	1,10,200/-
5	B Sc Botany & Biotechnology	20	76,000/-
6	B Sc Zoology	30	1,05,000/-
7	BA English	33	1,15,500/-
8	BA Malayalam	27	97,200/-
9	BA Economics	25	90,000/-
10	B Com Finanace	44	1,58,400

15. RESEARCH WORK

- a) No. of teachers deputed for FIP : **04**
b) No. of teachers got Ph D during the year : **01**

16. NON-TEACHING STAFF

Sl. No.	Name of Post	Sanctioned strength	Existing strength
1	Senior Superintendent	1	1
2	Head Accountant	1	1

3	Clerk	8	4
4	Typist	1	-
5	Librarian Grade I	1	1
6	Library Assistant (One Supernumerary)	3	3
7	Mechanic	1	1
8	Lab Assistant	12	10
9	Herbarium keeper	1	1
10	Gardener	1	-
11	Last Grade staff	6	1
TOTAL		36	23

17. STAFF ATTENDED FACULTY/PROFESSIONAL DEVELOPMENT PROGRAMMES

Name of the participant	Designation	Title of the FDP /MDP/ professional development / administrative training program	Dates (from-to) (DD-MM-YYYY)
Anjli Susan Ninan	Assistant Professor	Teachers Enrichment Workshop, National Centre for Mathematics	2-7 April 2018
Dr. Arun Aravind	Assistant Professor	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
Dr. Arun Aravind	Assistant Professor	Science Academies' Refresher Course in Experimental Physics	13-28 September 2017
Dr. Arun Aravind	Assistant Professor	UGC HRDC Orientation	07 Nov-05 Dec 2017

		Programme Bangalore University	
Dr. D.Sajan	Associate Professor	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
Dr. Deepthi G. R.	Associate Professor	UGC Sponsored Special Summer School, UGC, HRDC, Thiruvananthapuram	22-31 July 2017
Dr. Dinesh Raj R	Assistant Professor	Refresher Course in Environmental Sciences (sponsored by UGC) at HRDC, University of Kerala, Kariavattom	09-29 Jan 2018
Dr. Jerin Susan John	Assistant Professor	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
Dr. Jerin Susan John	Assistant Professor	Science Academies' Refresher Course in Experimental Physics	13-28 September 2017
Dr. Lynnette Joseph	Assistant Professor	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
Dr. Lynnette Joseph	Assistant Professor	Science Academies' Refresher Course in Experimental Physics	13-28 September 2017
Dr. Nair Anup Chandrasekharan	Assistant Professor	UGC REFRESHER COURSE, HRDC, NORTH BENGAL UNIVERSITY	9-29 Jan 2018
Dr. Nair Anup Chandrasekharan	Assistant Professor	UGC SHORT TERM COURSE, HRDC, UNIVERSITY OF KERALA	05-12 March2018 to12/03/2018
Dr. Reeja Jose	Assistant Professor	Orientation Course on Environmental Sciences, UGC, HRDC, Thiruvananthapuram	22 Nov-19 Dec 2017
Dr. Shanthi W.S.	Assistant Professor	Refresher Course in life sciences (sponsored by RUSA) at UGC HRDC, University of Kerala, Kariavattom.	08-28 November 2017

Mr. Amith David	Assistant Professor	Refresher Course on Liberal Arts, UGC HRDC, JNU, Delhi	26 March 2018 to 20 May 2018
Mr. Javeesh Alex	Assistant Professor	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
Mr. Javeesh Alex	Assistant Professor	Science Academies' Refresher Course in Experimental Physics	13-28 September 2017
Mrs. Ann Mary Jose	Assistant Professor	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
Mrs. Ann Mary Jose	Assistant Professor	Science Academies' Refresher Course in Experimental Physics	13-28 September 2017
Mrs. Merin George	Assistant Professor	Science Academies' Refresher Course in Statistical Mechanics	02-16 May 2018
Mrs. Merin George	Assistant Professor	Science Academies' Refresher Course in Experimental Physics	13-28 September 2017
Ms Anusha DAs	Assistant Professor	UGC:Sponsored Orientation Programme conducted by the uGcHuman Resource Development Centre, University of Kerala, Kariavattom, Trvandum,	08 June-05 July 2017
Ms.Bessy Mary Philip	Assistant Professor	Science Academies Refresher Course in Statistical Mechanics by Indian Academy of Science organised by Bishop Moore College	02-16May2018.

18. SPORTS AND GAMES

1. Distinction in Inter-collegiate tournaments

- Winners in the Kerala University **Judo** (Men) intercollegiate championship 2017-18
- Runners in the Kerala University Intercollegiate **Volleyball** (Men) Championship 2017-18.
- Runners in the Kerala University North Zone intercollegiate **Volleyball** (Men) Championship 2017-18

- Winners in the Kerala University **Softball** Intercollegiate championship 2017-18.
- Third position in the Kerala University **Baseball** Intercollegiate championship 2017-18.

2. Distinction in Zonal level : **NIL**
 3. Distinction in Inter University Tournaments : **12 University players**
 4. Distinction in State Tournaments

- **Mr. Devanarayanan S.** of BSc Mathematics won 1st prize in Shot-put at the Kerala State Athletic Championship 2017

5. Other achievements if any in sports and games:

- 82 students (men & woman) of the College participated in different intercollegiate championships.
- Volleyball (M) participated in the games conducted by Kerala State Sports Council.

16. DETAILS OF NCC

The NCC units of Bishop Moore College have been doing excellent job since their establishment. On various occasions cadets have served the nation even when their lives were in danger. Its motto “UNITY AND DISCIPLINE” has always been symbolized by the cadets. The NCC unit of this college inculcates sense of spirit of discipline, affection to fellow beings and service to nation.

Our NCC SW cadets come under 3 Kerala Girls Battalion Kollam and SD cadets comes under 8 Kerala Battalion Mavelikara. The students were excited to be enrolled in the Army wing of NCC. The enrolment of cadets for this year began during the month of August 2017. The team of selectors headed by the Commanding Officer of 3 Kerala Girls Battalion NCC along with J.C.O’s and P.I staff were present for the formal induction ceremony. Our activities for the year started with Independence Day celebration. The NCC Directorate has well-made syllabus that comprises, Drill, Weapon training, Leadership, civil defence, First aid, Hygiene & Sanitation, Community development, Human right, Adventure activity Ecology/nature awareness, self- defense, Map reading (MP), Home nursing, Family welfare, General knowledge, Man management, Field craft and Battle craft (FC/BC), Social services activities (Blood donation, Anti dowry, Aids awareness, Area cleaning) etc. The 3 Kerala Girls Battalion Kollam & 8 Kerala Battalion Mavelikara provides PI. staff who are trained military personnels, to impart the training. The battalion provides the training equipments and other facilities. Capt. Cigi.P.George and Lt. Dr. Sajan.D are our Associate NCC Officers and it’s under their supervision and support all activities are carried out .In addition to,a special one day weapon training was carried out on February 2016 in the college.

Majority of our cadets participated in CATC and ATC during 2017-2018. Apart from academic excellence our troop proved its excellence in cultural competition, games, tent pitching etc bagging medals and trophies.

The NCC unit of our college has excelled in various activities:

- Participation in various NICs and SNICs
- Cancer Awareness Programme
- Organic Farming in college campus
- Planting of trees in college campus
- Swach Bharath Abhiyan at College Junction, Kallumala
- Visit to Jyothis, Kallumala
- Weapon training camps
- Blood donation awareness campaign at Kallumala market
- Hair Donation: Hair for hope
- **Miss. Megha Mohanan – S5 Mathematics** attended the **Para Basic Course Sep 2017 Camp** conducted by NCC held at PTS, Agra from 01 September to 22 September, 2017

17. DETAILS OF NSS.

The NSS units 41 A & B of Bishop Moore College continues to uphold its motto, “Not Me But You” through its various activities both inside and outside the College under the stewardship of the Programme Officers, Miss Linda Jacob, Mr. Jils Varghese and Mrs. Anjali Susan Ninan. Mr. Vaishak V and Ms. Shyma Rahim served as the Volunteer leaders and led the two units in the following activities:

3/6/2017 (ONE DAY CAMP AT A.R. SMARAKAM): A one day camp organized at the historical monument A.R. Smarakam, Mavelikara, was inaugurated by Prof. V.I. Johnson, former NSS PO and Retd. HOD of Malayalam Department of Bishop Moore College. Sri. Pramod, who is in charge of A.R. Smarakam gave a speech on the importance of A.R. Smarakam and also on the importance of protecting Mother Nature. Later all the volunteers actively participated in the cleaning programme as per the directions given by the Programme Officers.

5/6/2017 (WORLD ENVIRONMENT DAY CELEBRATION): The NSS Units of Bishop Moore College celebrated World Environment Day by setting up a beautiful garden at A.R.Smarakam, Mavelikara. The Municipal Chairperson of Mavelikara Smt. Leela Abhilash formally inaugurated the programme “THANAL NADAM” by planting a tree sapling. More than 100 tree saplings were planted at various parts of the A.R.Smarakam compound.

6/6/2017 (PHOTO EXHIBITION): As a part of World Environment Day celebrations, a photo exhibition of various bird species in Kerala was arranged in front of the College auditorium. The programme was inaugurated by College Principal Dr. Jacob Chandy. The photo exhibition was arranged with the help of Mr. Harikumar from Alappuzha Nature Society.

19/6/2017 (READING DAY CELEBRATION): World Reading Day was celebrated at Bishop Moore Vidyapeeth School, Mavelikara. A reading competition and quiz competition were conducted for the school students. Mrs. Alice John, Principal of Bishop Moore Vidyapeeth School inaugurated the function. The Keynote address was given by Prof. V.I. Johnson, Former NSS Programme Officer. Books by famous writers were given to the winners.

20/6/2017 (PUSTHAKAKUTTA):A new initiative taken by the NSS volunteers was the launching of “Pusthakakutta”. The main aim of the said project is to motivate the reading habit and thereby transfer knowledge to more number of people. A basket for filling books was set up in front of the College. The project was inaugurated by the College Principal, Dr. Jacob Chandy. Once the basket is filled with books, it would be donated to public libraries

21/6/2017 (INTERNATIONAL YOGA DAY CELEBRATION):The NSS Units together with NCC Cadets of Bishop Moore College celebrated International Yoga day on 21st June 2017 in the College auditorium at 10.30 am. The programme was inaugurated by the College Principal, Dr. Jacob Chandy. Prof. Anu Mathews, College Vice Principal and Capt. Cigi. P. George offered felicitations for the event. NSS volunteers practiced various yoga postures according to the instructions given by the Yoga Instructor Ms. Greeshma.

15/8/2017(INDEPENDENCE DAY CELEBRATION):National flag was hoisted by the College Principal Dr. Jacob Chandy. This year’s organic farming was inaugurated by planting vegetable seeds. An awareness class on ‘Importance on National Unity’ was led by Prof. Jils Varghese

18/8/2017(HANDWRITTEN MAGAZINE COMPETITION AT EXCISE DEPARTMENT, ALAPPUZHA):A manuscript ‘VIMOCHANA’ was prepared by the NSS volunteers and submitted to the Excise Department, Alappuzha. This competition was a part of the VIMUKTHI mission –an initiative by the Govt. of Kerala. The College won the third prize in the competition.

19/9/2017(GENERAL MEETING & ONE DAY CAMP AT SDV CENTENARY HALL, ALAPPUZHA):Prof. Jils Varghese took a class on ‘Group Dynamics’ for first year and second year volunteers at the College. Mr. Nidhin and Mr. Akshay participated in the one day camp for antidrug campaigning conducted at SDV centenary hall, Alapuzha.

23/9/2017(NSS DAY CELEBRATION):NSS flag was hoisted by the College Principal Dr. Jacob Chandy. The message was given by Dr. Sabu George, Former Principal and former NSS PO of Bishop Moore College. Dr. Sabu George also released the proclamation chart of the upcoming project named “Vimochana”-a street play which was meant for antidrug campaigning. A video presentation of the various activities done in the previous years by NSS volunteers was shown for the first year volunteers. Prof. Jils Varghese took a session on ‘Team Building’. Volunteers presented various cultural programmes also.

17/10/2017(FOOD DAY CELEBRATION):As a part of food day celebration NSS volunteers collected about 1000 food packets from the students of Bishop Moore College. The food packets were distributed to poor and needy people residing near the Ochira temple.

06/10/2017(GANDHI JAYANTHI CELEBRATION):An essay writing competition was conducted on the topic “Relevance of Gandhian thoughts in present era”

26/10/2017(BLOOD DONATION CAMP):A blood donation camp was organized in association with HDFC.

18/11/2017(GENE POOL CONSERVATION): Along with Nature Club and Environment Club of the college, the NSS unit took part in the gene pool conservation of a rare species of rice “Rakthashaali” by sowing the rice. The programme was named “Kathirmani”.

27/11/2017(CANCER AWARENESS PROGRAMME): As part of “CAP(Cancer Awareness Programme) at Campus” a class was taken by Divisional Deputy Excise commissioner Suresh Richard in association with Sargakshetra. Female NSS Volunteers donated their hair towards this cause.

05/12/2017 FREE EYE CHECK-UP MEDICAL CAMP: In association with the Amaravathi Eye Care Hospital, Mavelikara, a free eye check-up was organized for all the students and staff in the college. Dr. Prince, Ophthalmologist took a class on Eye care and prevention from eye diseases.

22/12/2017 to 28/12/2017 SPECIAL ANNUAL CAMP: NSS special camp was held at Govt. JB School, Venmoney. Mr. Jebin Varghese, the Alappuzha District Panchayath Member inaugurated the camp. About 105 volunteers attended the camp.

26/01/2018 REPUBLIC DAY: National flag was hoisted by the College Principal Dr. Jacob Chandy. An awareness class on ‘Importance on National Unity’ was led by Prof. Anjali Susan Ninan

02/02/2018 NATIONAL INTEGRITY DAY: All the NSS volunteers of the college took an ‘Oath of Solidarity’ to keep up with the Integrity of the Nation.

15/02/2018 SPORTS DAY FOOD STALL: A food stall was set up by the NSS volunteers at the Sports Ground on Annual Sports Meet. The stall was a great success providing various drinks and snacks to the students and staff.

23/02/2018 KAS ORIENTATION CLASS: In association with Sargakshetra, The NSS first year volunteers organized an orientation class on Kerala Administrative Services to the final year students of the college. The class was taken by Dr. Sam John and team.

19. NATIONAL INTEGRATION ACTIVITIES

The activities of the various extension activities of the college prepare the students for National integration in a direct and an indirect way. Following are some of the activities that were organized during the academic year 2015-16 towards National Integration :-

1. Independence Day, Gandhi Jayanthi, Rashtriya Ekta Divas, etc.celebrated by NSS volunteers
2. Blood donation camp organized by NSS volunteers
3. Onam, Christmas and Keralappiravi celebrated by college staff and students.
4. Three National Conferences and various workshops organized by various Departments.

5. Celebration of National Science Day and National Space Week by Science Club.
6. NIC is an important camp held to inculcate integration among the states of India. Our cadets represented our states in various NIC and SNIC's :
1. Leadership Camps are conducted on All India basis.

20. COLLEGE PLANNING FORUM AND ITS ACTIVITIES

The Governing Council, IQAC, Planning Board, Staff Council and Departmental Staff meeting put forward necessary proposals for infrastructure development, upgradation of teaching learning activities, etc. The Principal convenes the College Level Monitoring Committee (CLMC), comprising the Heads of all departments and the elected members of the Council. The Committee discusses the ways and means to effectively implement the Curriculum, keeping in mind the exam schedule, the schedule for co-curricular activities, and in accordance with the rules and regulations stipulated by the University.

The next step is where the Heads of the various departments meet with the faculty of their respective departments in Department Level Monitoring Committee (DLMC) meetings and the action plan for the semester is charted out. Course coordinators are selected and entrusted with the task of overseeing the proper implementation of the curriculum by setting a monthly plan, wherein the syllabus is distributed evenly within a semester. The college supplements the curriculum by conducting seminars, workshops, exhibitions, quiz programmes and innovative teaching methods.

22. COLLEGE UNION AND ITS ACTIVITIES

The College Union Elections which was scheduled to be conducted on 28 September 2018 had to be suspended in accordance with the letter issued by the Circle Inspector of Police, taking strong note of the violence among political parties in the locality of the college. Even in the absence of college Union, the teachers and students could well organize the Arts festival and Sports meet of the college.

51st Annual Sports Meet

The Physical Education Department oversaw the smooth and successful conduct of the Annual Sports Meet during 14 & 15 February 2018. The Chief Guest of the day was Jincy Johnson (International Volleyball player) . Inter department March past competition, games and events were held.

Arts Festival 2018

Arts Festival, Kalasarith 2018: Arts festival was conducted during 19-20 February 2018. House-wise literary and arts competition was held.

21. TRAINING GIVEN TO OFFICIALS

The college regularly organizes seminars, conferences, talks and lectures to empower the teachers and students in teaching-learning. Following are the programmes organized for staff during the academic year 2016-17.

- a) **Refresher Course on Experimental Physics** (jointly sponsored by the three Science Academies' of India) was conducted during 13-28 September 2017.
- b) **Refresher Course on Condensed Matter Physics** (jointly sponsored by the three Science Academies' of India) was conducted during 2-16 May 2018.
- c) **Lecture Workshop on "Advances in High Energy Physics"** was conducted during 12-14 July 2017 (jointly sponsored by the three Science Academies' of India).
- d) **Science Academies' Lecture Workshop on Advances in Spectroscopic and Microscopic techniques**, was conducted during 15-17 November 2017
- e) **Science Academies' Lecture Workshop on Advances in Condensed Matter Physics**, was conducted during 7-9 March 2018
- f) **Profession Development session** for teaching staff was led by Dr. Valsan Thampu, Former Principal St. Stephen's College, Delhi, was held on 05 June 2017
- g) **Lab Training** for Staff & Students of Chemistry Department, by Dr. G. Ajayakumar, under DBT STAR College Scheme on 23 March 2018
- h) **Herbarium Keepers Training** organized by Department of Botany under DBT STAR College Scheme on 26 March 2018
- i) **Training Workshop on Aquaponics** by Department of Zoology under DBT STAR College Scheme on 23 March 2018

23. COMPUTER LAB

The College has three separate centres enabling computer and internet access for students and staff.

1. Common Computer Centre

Computer centre has 25 computers with internet connectivity, LAN, Printing and Scanning facility and is accessible to students and staff during working hours. The Centre is open during lunch break and Saturdays also. Supporting staff available during work hours to assist students and faculty

2. Physics Computer & Networking Centre

An Air conditioned computer centre with 25 Desktop Computers, LAN, Internet facility, , is available for Add on Course (Web Designing & Office Automation) students. Two units of 5 KVA battery is installed to ensure steady power supply.

3. Commerce Computer Lab

The Commerce Computer lab is equipped with 16 Desktop Computers, LAN, 5 KVA Battery and Ceiling Mount LCD projector. The Lab is accessible to the B. Com (Computer Applications) students.

24. COLLEGE AUDITORIUM

The college auditorium has a seating capacity of 1000 along with balcony seating. The acoustics is properly maintained and the stage is equipped with proper light and sound arrangements

26. DETAILS REGARDING THE COLLEGE WORKING DAYS

- a) Number of working days during 2017-18 : 185
- b) Number of working days lost due to students' unrest, teachers' strike and other reasons:NII

18. Any other achievements or information to be included in the Annual Administration Report 2017-18 : ANNEXURE III

The Ministry of Science and Technology and Department of Biotechnology had selected Bishop Moore College under the **DBT Star College Scheme**, thus providing financial support for three years, for strengthening Science education and training at undergraduate level. The activities under this program was formally inaugurated on 26th February 2018 by Prof. Oommen V. Oommen, Former Chairman of the Kerala State Biodiversity Board.

- 21 Feb 2018 : Field Visit VSSC, Thiruvananthapuram
- 07 Mar 2018 : Interaction session, Dr. Rajeev Joshi, Central University, Karnataka
- 08 Mar 2018 : Interaction session, Dr. Rajeev Joshi, Central University, Karnataka
- 12 Mar 2018 : Invited Lecture, Dr. Senoy Thomas, CUSAT, Kochi
- 14 Mar 2018 : Invited Lecture, Dr. Anil Shaji, IISER, Thiruvananthapuram
- 16 March 2018 : Training program for students CUSAT, Kochi
- 16 Mar 2018 : Invited Lecture Prof. Santhosh P.N, IIT, Madras
- 20 Mar 2018 : Invited Lecture Prof.C. Vijayan , IIT Madras on the topic, The Joy of Physics, and Adventures of Thinking.
- 20-23 March 2018 : Training Program for students at CUSAT
- 26 March 2018: Training for Herbarium Keepers
- 19 March 2018 :Talk By Dr. Ani V. Das
- 12 March 2018: Workshop On Thesis Writing And Presentation,
- 27 March 2018:Milma Dairy visit by students
- 24 March 2018:Hands on training for teachers at CEPCI
- 23 March 2018:Training for lab staff by Dr. Ajayakumar G
- 23 March 2018:Lab skill development training for students by Dr. Ajayakumar
- 22 March 2018 :Talk by Dr. Kuruvilla Joseph, IIST, Thiruvananthapuram

- 20 March 2018 :Talk by Dr.Reji Varghese, IISER
- 17 March 2018:Hands On Training for students at CEPCI, Kollam
- 16 March 2018 :Talk on “Drug Developments through centuries” by Dr. Mangalam. S. Nair, NIIST, Tvpm
- 14 March 2018:Students Visit to IIST Tvpm
- Talk on “Synthetic Chemistry- History Significance and prospectus” by Dr. S. Anas, School of Chemical Science, MG University, Kottayam
- 26 March 2018 Awareness Programme at CMS LP School, Kallumala
- 23 March 2018 Training Workshop on Aquaponics by Dr. S. Midhun
- 21 March 2018 Talk By Dr. Kurien Mathew Abraham
- 19 March 2018: Hands on training on computer aided statistical analysis by Dr. N.K. Balasubramanium:
- 17 March 2018 Talk By Dr. A. Bijukumar, University of Kerala
- 15 March 2018:Students visit Mudumalai Tiger Reserve
- 14-15 March 2018: Training At Kerala Unvty Campus
- 14-15 March 2018:Training At CPCRI: Advances in Pest Management & harnessing Scientific Temperament
- 13March 2018:Students Visit CMFRI
- 26 Feb 2018: Talk by Prof. Oommen V. Oommen, Former Chairman of Kerala State Biodiversity Board

Name
Designation and
Signature of the Head of the Institution

ANNEXURE-I

LIST OF PUBLICATIONS

International publications:

1. 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, Optics & Laser Technology, Volume 105, September 2018, Pages 207-220 (Impact factor: 2.17)
2. 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, K. K. Maurya and **D. Sajan**, New J. Chem., Volume 42, 02 Feb 2018, September 2018, Pages 4261-4277 (Impact factor: 3.269)
3. 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 1156,733-744(2018) (Impact factor: 1.753)
4. Quantitative structure and activity relationship on the biological, nonlinear and the spectroscopic properties of the Schiff base material: 4-chloro-4' bromobenzylidene aniline, Nimmy L John, **Lija K Joy**, M Saravana Kumar, SS Shaiju, A Subashini, **D Sajan**, Molecular Simulation, 43, 1-15 (2017).(Impact factor: 1.53)
5. Physico-chemical studies of the experimental and theoretical properties of organic nonlinear optical material 4-chloro-4'methoxy benzylideneaniline, **Merin George**, Nimmy L. John, M. Saravana Kumar, A. Subashini, **D. Sajan**, Journal of Molecular Structure, Volume 1128, 15 January 2017, Pages 754-768 (Impact factor: 1.753)
6. Qualitative and quantitative approach towards the molecular understanding of structural, vibrational and optical features of urea ninhydrin monohydrate, V. Sasikala, **D. Sajan**, K. Chaitanya, Tom Sundius, T. Uma Devi, Materials Chemistry and Physics, Volume 191, 15 April 2017, Pages 20-34(Impact factor: 2.283)
7. Spectroscopic and DFT-based computational studies on the molecular electronic structural characteristics and the third-order nonlinear property of an organic NLO crystal: (E)-N'-(4-

- chlorobenzylidene)-4-methylbenzenesulfonohydrazide, V.Sasikala, **D.Sajan, Lynnette Joseph**, J.Balaji, S.Prabu, P.Srinivasan, Chemical Physics Letters, Volume 674, 16 April 2017, Pages 11-27, (Impact factor: 1.815)
8. Investigations on spectroscopic, dielectric and optical studies in 3-hydroxypyridinium 4-nitrobenzoate crystals, J.Balaji, S.Prabu, **D.Sajan**, P.Srinivasan, Journal of Molecular Structure, Volume 1137, 5 June 2017, Pages 142-149, (Impact factor: 1.753)
 9. Spectroscopic and non-linear optical studies of two novel optical limiters from dichloroaniline family crystals: 3,4-Dichloroaniline and 3,5-dichloroaniline, V. Sasikala, **D. Sajan, Lynnette Joseph**, Badiadka Narayana, Balladka K. Sarojini, Optics & Laser Technology, Volume 96, 1 November 2017, Pages 23-42(Impact factor:2.17)
 10. **Deepa Thomas**, M.S. Latha, and K. Kurien Thomas. *Alginate/Chitosan Nanoparticles for Improved Oral Delivery of Rifampicin: Optimization, Characterization and in vitro Evaluation. Asian J. Chem. 2018; 30(4); 736-740.*
 11. **Thomas D**, Latha MS, Thomas K K. Synthesis and In Vitro Evaluation of Iron Cross Linked Alginate Nano Particle for Controlled Drug Release. Lung Pulm Respir Res J. 2017; 1(1):111.
 12. Dr. Sajeev V.P, “*Sway on FDI in India- some rudimentary corroborations*”, International Journal of Commerce, Economics and Management, Volume 7, Issue No 10, October 2017, p45-51
 13. **Dr. Sherly Annie Paul** published a paper entitled “Extraction of nanocellulose from coconut fibre and its applications towards the thermal stability of proteolytic enzyme” in the proceedings of Coir Kerala 2017 from 5-9 October 2017.
 14. Arsha, K., Sivaprasad, A., Asha Ramachandran, Dinesh Raj R. (2017) Phytochemical analysis of in vitro generated callus and leaves of Emilia sonchifolia (L.) DC, International Journal of Current Trends in Science and Technology 7(10): 20377-20382
 15. Soumya, S.R., Asha Ramachandran, Dinesh Raj R, Sivaprasad A. (2017) Mosquito larvicidal and Cytotoxic studies on Annona reticulata L. International Journal of Advanced Research (IJAR) 5(10): 414-419
 16. Lekshmi, S., Dinesh Raj R., Asha Ramachandran, Sivaprasad A. (2017) Anatomical and molecular characterization of selected species of Euphorbia L (Euphorbiaceae) from Kerala, India. International Journal of Advanced Research (IJAR) 5(10): 332-341
 17. Sojan Jose, Suresh V., Hareesh VS, Robi AJ, Resmy PS, Dinesh Raj R, Asha VV, Prakash kumar R., Madhusoodannan PV (2017). Pilea victoricae (Urticaceae), a new striking species from the mural flora of Western Ghats, India. International Journal of Advanced Research (IJAR) 5(8): 1636-1641

18. Athira R.K. Nair, Brijithlal N.D., Prakash G. Williams and Lubaina A.S. (2018) In vitro anti-cancerous effect of the *Taxithelium nepalense* (Schwäger) Broth. studied by MTT assay. *World Journal of Pharmaceutical Research*, 7 (2), 1049-1060.
19. Athira R.K. Nair, Brijithlal N.D., Prakash G. Williams and Lubaina A.S. (2018) Anti-cancerous effect of the acetone extract of *Semibarbula orientalis* (F.Weber) Wijk & Margad. *World Journal of Pharmaceutical Research*, 7 (3), 790-800.

National Publications

1. Ashish Varughese, *“Dynamic Relationship between Foreign Institutional Investment and Movements in Indian Stock Market – An Empirical Study”* *Finance India*, Vol XXXI, Issue2, June 2017: p457 - 474.
2. Ashish Varughese, *“Asymmetric Volatility of Indian Stock Market and Foreign Institutional Investment: An Empirical Study”* *Indian Journal of Finance*, Vol 11, Issue 6, June 2017: p36 - 49.
3. **Dr. Nair Anup Chandrasekharan** published *‘Eco-consciousness’ in the Poetry of the Early Indian English Poets* in the ‘Indian Journal of Postcolonial Literatures’, Newman College, Thodupuzha, December 2017.
4. **Dr. Nair Anup Chandrasekharan** published *‘Knowledge’ as an Imperialistic Tool: A Survey* in ‘English Activities Update’, Centre for Faculty Resource Development in English, Thiruvananthapuram, June/December 2017

Book Chapters

1. **Rekha Rose Koshy, Siji K Mary** – “Rheological properties of nanocomposites based on cellulose nanofibrils and cellulose nanocrystals” in handbook of nanocellulose and cellulose nanocomposites pp-481-527, Wiley Publications.
2. **Dr.D.Sajan**, *Green Synthesis and Characterization of Silver Nanoparticles , Methodologies and Applications for Analytical and Physical Chemistry*, Apple Academic Press, Inc.9 Spinnaker Way, Waretown, New Jersey 08758 USA, Hard ISBN: 9781771886215, E-Book ISBN: 9781315159539

Books Published

- **Mr. Shahin Mohammed**, Semester Two student of the Department, published a novel titled ‘Hridayangalkappuram’ . Publishers Green Books published it in 2017.

ANNEXURE II

CONFERENCE PUBLICATIONS

1. **Dr. Asha Ramachandran** presented a paper entitled “A comparative analysis of larvicidal and cytotoxic effects on *Lantana camara* L. and *Gliricidia maculata* H.K & B.” in national seminar on conservation of Wetland ecosystems for long term ecological security” organized by SN College for women, Kollam from 18th to 20th January 2018.
2. **Mrs Siji K Mary** presented a paper on Preparation and Characterization of Starch/TiO₂ Nanocomposite films at the International Conference on Advances in Polymer Science and Technology held in New Delhi from 23rd to 25th Nov 2017.
3. **Mrs Rekha Rose Koshy** presented a paper on Environmental friendly green composites based on soy protein isolate and Nano TiO₂ in the International Conference on Advances in Polymer Science and Technology held in New Delhi from 23rd to 25th Nov 2017
4. **Mrs. Deepa Thomas** presented a paper in the National Seminar on ‘Reaching the Unreached through Science and Technology’ (RURST-2018) held on 12th-14th February 2018 at Sree Narayana College, Kollam
5. **Mrs. Deepa Thomas** presented a paper in National Seminar on Advanced Materials (NSAM-2017) held on 4th October, 2017 organized by the Department of Chemistry and the School of Physical and Mathematical Sciences, University of Kerala.
6. **Mrs. Deepa Thomas** presented a poster in the National Seminar on ‘Recent Trends in Advanced Chemistry Research (RTACR-2017) organized by the Department of Chemistry, Sree Narayana College, Kollam held on 25th and 26th May 2017
7. **Dr. Deepthi G. R.** presented a paper in National Seminar on "Recent Innovations and Current Trends in Biological Sciences" organized by Post Graduate Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikara from February 8-10, 2017.
8. **Dr. Reeja Jose** Participated and presented a paper in National Seminar on "Recent Innovations and Current Trends in Biological Sciences" organized by Post Graduate Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikara from February 8-10, 2017.
9. **Dr. Reeja Jose** presented a paper in National Seminar on "Problems and Prospects of Wetland Conservation with Special Reference to Wetlands of Kerala" organized by Post Graduate and Research Dept. of Zoology, N. S. S. College, Pandalam from February 6-8, 2018.
10. **Dr. Nair Anup Chandrasekharan** presented a paper titled ‘Eco-consciousness’ in the Poetry of the Early Indian English Poets at the International Conference on ‘Why Ecocriticism’ jointly organized by FSLE-India and Sikkim Government College, Tadong on 22nd and 23rd November, 2017.

Dr. Nair Anup Chandrasekharan presented a paper title “Identifying handicaps and surviving: Firdus Kangra's *Trying to Grow* as a Tale of an Individual and Community” in a National Seminar organised by

the Department of Collegiate Education, Government First Grade College, Koratagere, Tumkur District, Karnataka on 16th February, 2018.

- Dr. Nair Anup Chandrasekharan** presented a paper titled 'Knowledge' as an Imperialistic Tool: A survey' in the UGC Sponsored National Seminar on *Sustaining Indian Knowledge Systems: Academic Representations Through English Studies* on 05 & 06 December 2017, Organized by PG Department of English NSS College, Pandalam.
13. **Dr. Lija K. Joy** Colossal Thermoelectric Power in Charge Ordered Lanthanum Calcium Manganites in National Seminar on Recent Trends in Biomaterials BIOMEET 2017 February 15-17 2017
 14. **Dr.D.Sajan** Growth and Physicochemical Properties of Semi-organic NLO crystal Picolinium Tartrate Monohydrate in Annual Meeting of the German Crystallographic Society (DGK) 5 - 8 March 2018, Essen, Germany
 15. **Dr.D.Sajan** presented a paper titled Z-Scan Study of Organic Material :2 Picolinic Perchloric Acid Crystalin 26th DAE BRNS National Laser Symposium From 20th to 23rd December, 2017
 16. **Jerin Susan John** presented a paper titled Experimental and Theoretical Investigation of Nonlinear Optical Organic Crystal in 9th International Conference on Materials for Advanced Technologies (ICMAT 2017) held from 18 to 23 June 2017
 17. **Jerin Susan John** presented a paper titled A Comparative Study of SERS Spectra of R6G Using Silver and Gold Nanocolloids in National Photonics Symposium (NPS)-2018
 18. **Lynnette Joseph** presented a paper titled in "Synthesis, Structural, Vibrational Spectral, Nonlinear Optical, Electron Transfer Studies of Aniline Derivatives for Optical Limiting Applications" International Conference on Materials for Advanced Technologies ICMAT-2017, Suntec City, Singapore during 18-23 June, (2017)
 19. **Dr. Arun Aravind** presented a paper titled Optical Studies of Hydrothermally grown ZnO Nanostructures, in International Conference on Materials for Advanced Technologies ICMAT-2017, Suntec City, Singapore during 18-23 June, (2017)
 20. **Dr. D. Sajan** presented a paper titled Green Synthesis and Characterisation of ZnO Nanoparticles using Aloe Vera Extract in International Conference on Materials for Advanced Technologies ICMAT-2017, Suntec City, Singapore during 18-23 June, (2017)

ANNEXURE III: OTHER STUDENT ENRICHMENT PROGRAMMES

CAREER GUIDANCE AND PLACEMENT CELL

- **Bank and Competitive Exam Training:** The Career Guidance and Placement Cell conducted training programme for the students to successfully crack competitive exams, especially the bank exams. The 70 hour programme was held on most Saturdays. The training programme covered important areas in Maths, General English and Quantitative aptitude.
- **MICSA - Civil Service Forum:** Another initiative by Career Guidance and Placement Cell was to help the students aim for the Civil Services. The forum consisted of 31 Civil Service aspirants. The group members met after the regular classes to discuss current affairs. A group of teachers from different Departments voluntarily took classes for the group in their area of specialization. The formal inauguration of MICSA was done by Sri. Manjulekshmi I.A.S, Honorable Sub-Collector, Nasik, Maharashtra.
- **Speak for India Inter Collegiate Debate Competition:** Speak for India Inter Collegiate Debate Competition, Mavelikara Block level competition was held at the College auditorium in October 2017. 87 Students from different Colleges participated.
- **One day Training Programme on Mindful Life Management:** The One Day Training Programme on 'Mindful Life Management' was organised on 7th March 2017. The programme was organised in association with a Counseling Wing of the Psychiatry Department of Thiruvananthapuram Medical College. 45 Students from different departments participated in the programme. The programme was organised to help the students in the areas of stress management and mind control.
- **Orientation Programmes:** Few Orientation Programmes too were organized by the Cell like an Orientation programme for professional courses, Orientation programme for competitive exams, Orientation programme in English for competitive exams and Orientation programme for quantitative aptitude tests.
- **Campus Placement:** Federal Bank, a leading bank recruited two students of the Department over two consecutive years. Anjali Mariam George in 2017 and Greeshma S in 2018 were selected by Federal Bank.

WOMEN'S CELL & WOMEN'S STUDY UNIT

The Women's Cell of the college organised several programmes for the holistic development of the young women of the College. The programmes were sponsored by the Kerala State Women's Development Corporation and Ms. Suma Alexander serves as its co-ordinator. Apart from this Women's Study Unit is functioning in the college with Thirty one undergraduate students and Ms. Bhagyalakshmi Mohan as the co-ordinator. The unit dedicate one hour every Wednesday for discussion and planning of programmes.

- **Self Defence Training:** A one-day Self-Defence Training for 63 participants by police personnel of the women's wing of Kerala Police (Janamaithri Vanitha Police), was led by senior civil police officer, Smt. Sulekha Prasad and her team. The programme was coordinated by Ms. Suma Alexander. The training was greatly beneficial to the girl students in the present context of increasing discrimination and atrocities against women in our society.

- **Floral Arrangement Training:** To cater to the varied interests of the students, a flower arrangement training programme was organised on February 23, 2018. Prof. Prabha Alice Varkey, an expert in the field, gave demonstration and hands on training to the students. More than 50 students participated in the programme. Ms Suma Alexander was the programme coordinator. Mass flower arrangement, minimal arrangement, vertical and horizontal arrangements, and Ikebana, using shells, stones and twigs besides flowers, leaves and stem cuttings, were demonstrated.
- **Fabric Painting and Needle Work:** Fabric painting and needle work sessions were organised for 50 participants on 7th and 14th of March 2018. Smt. Geetha Williams was the resource person. Ms Rekha Rose Koshy was the programme coordinator. The beautiful paintings of the students provided a visual treat.
- **Talk on Health and Nutrition:** A talk on Health and Nutrition for Young Women was organised on March 1, 2018, as a community outreach programme. Dr Rekha Rachel Philip from the Department of Community Medicine, T.D Medical College, Alappuzha was the resource person. Sixty six students participated and benefitted from the talk. There were participants from the vicinity and Peet Memorial Training College. In the interactive session that followed, students got the opportunity to clear their doubts on issues regarding health and hygiene. The programme was coordinated by Dr Shanthi W. S.
- **Women's Day Celebrations of Women's Cell:** Women's Day that falls on March 8th was celebrated on a grand scale. The theme of Women's Day 2018, "SadhairyamMunnottu" was conveyed through the programmes conducted. The Women's Cell and Women's Study Unit of the College jointly organised a talk on Gender Awareness by the renowned writer and faculty of the College Smt. Rekha K. The programme was coordinated by Ms Bhagyalakshmi Mohan. A street play competition on the theme was conducted in the College Hostel courtyard. The students participated with great enthusiasm and the winners were given cash prizes. The programme was coordinated by Ms Sajini Deena Mathew. Gender discrimination and women's issues were highlighted. The need to survive with fortitude and courage against all odds was the underlying message of the show.
- **Women's Day Celebrations of Women's Study Unit:** Women's Day Celebration of the College was organized by the women study unit in collaboration with Women's Cell (sponsored by KSWDC) on 8.03.18 in the college auditorium. The students were given an opportunity to open food stalls.
- **Social Outreach:** Students also need to be groomed as responsible citizens, ready to lend a helping hand to the less privileged. Dr Jisha, the Programme Coordinator and a group of student and staff members of the Women's Cell visited Balabhavan, Kurathiyad on March 21. They interacted with the children and as a token of love and fellowship, provided for their requirements in kind.
- **Project on 'The Problems of Women in Rural Areas':** The students of Women's Study Unit were given a project to identify the problems of women belonging to the rural background. They identified the need for women to be economically independent and pointed out the need for a stable income and a job. The unit unanimously decided to complete the PSC registration process of all its members at the earliest. In order to assist the students to crack the PSC exam, the unit decided to discuss 25 model PSC questions every week. The projects also identified that there is an urgent need to enhance the English communications skills of the women candidates. It was decided that all the unit members should try to communicate in English.
- **Tailoring Classes:** As a part of the vocational training to empower women, Miss. Jisha CB (B.Com CA) and Veena S Nair (BA Economics), who are the unit members, gave tailoring classes to all the other unit members. The members were allowed to use the women cell tailoring unit during their free hours.

- **Quiz Competition on ‘Great women’:** A quiz competition on Great Women was organized in the College as a part of Women’s day celebrations on March 7, 2018. Greeshma B. Philip and Cibiya Ann John of S4 Chemistry conducted it. Saritha S of II MA English and Kavya Jayan of S6 English got the first prize. The winners were given mementos by Mrs. Suma Alexander, Convenor, Women Empowerment Cell of the College.

ADDITIONAL SKILL ACQUISITION PROGRAMME

- The Department of English coordinated the fifth edition of the Additional Skill Acquisition Programme (ASAP), in form of three batches from May to July 2018, with resounding success. Over the period of three months, 90 trainees from across the length and the breadth of the State successfully participated in the residential training programme, hosted by the College and organized by the Department of Higher Education, Government of Kerala. The College has been awarded the status of a five star training institute by the Government of Kerala. Dr. Nair Anup Chandrasekharan was the Course Director. The Master Trainers included Dr. Anne Angeline Abraham, Ms. Anusha Das, Ms. Leena Susan Koshy, Dr. Anej Somraj among others.

AWARD DAY 2017

- Award Day 2017 was held on 6 November 2017. The function felicitated the meritorious achievements of students in the University of Kerala Examinations, University of Kerala Youth Festival, and other co-curricular activities. Shri Muraleedharan Thazhakkara, Programme Executive, All India Radio, Thiruvananthapuram, who was the Chief Guest of the programme, facilitated the students. Scholarships for top scorers of the various Departments were also distributed.

PADHEYAM-2018

- A programme to bid farewell to the outgoing students of the academic year and distribution of prizes for best outgoing students was held on 27 March 2018. The renowned script writer and poet, Shri. Vayalar Sharath Chandra Varma was the chief guest of the programme and delivered the key note speech, as a *Padheyam* (which means packet food given in hand for a person going for a long journey) for the outgoing students.

BEST OUTGOING STUDENT CONTEST -STARS OF MOORE

- The grand finale of the STARS OF MOORE, an initiative designed to comprehensively test the outgoing UG and PG students of the College and select the best three, was conducted on 26 March, 2018. The best outgoing students of 2017-‘18 were **Sarita (MA English), Harita (BA English) and Sherin Mariam Philip (BCom Finance)**. The STARS were honored with certificates and cash prizes.

ENDOWEMENT LECTURES AND PROGRAMMES

- **Prof. P.U. Jacob Memorial Endowment Lecture** of 2017 in honor of Prof. P.U. Jacob, former Head of the Department of English, Bishop Moore College was delivered on October 10, 2017 by Dr. Siby James, Associate Professor, Dept. of English, St. Thomas College, Pala. The title of his talk was “Citing Theories Siting Ecoc(s)ides”. This talk on Theory has the audience in thrall. On this

day, Ms.Ammju Krishna S (S3 BA English) and Ms. Saritha S (S2 MA English) were awarded the Endowment prize for consistent academic performance.

- **Bishop MM John Memorial Lecture** was organized on 01 March 2018. Prof. Rajan Gurukkal, delivered lecture.
- **Prof. K. J. Johnson Memorial Intercollegiate Mathematics Quiz Competition:** Prof. K J Johnson Memorial 12th All Kerala Intercollegiate Mathematics Quiz Competition was held at the College on March 13, 2017. Mr.Vaisakh Venu , Assistant Professor, Christ College of Engineering, Irinjalakkuda, was the Quiz master. Students from various colleges participated in this competition. Team of Vipin Venugopal and Sreelekshmi V of Bishop Moore College won the Prof. K J Johnson Memorial ever-rolling trophy and cash prizes. M.S.M College Kayamkulam won the Bishop Moore ever-rolling trophy and cash prizes for II prize winners. Christian College Chengannur won the third prize.

CELEBRATIONS AND OBSERVATIONS

- **National Science Day Celebrations:** *Sci Rostrum 2018:*The National Science Day(NSD) Celebrations, 2018 of the College, was inaugurated by Dr.B.Premlet (TKM College of Engineering, Kollam) on 28 February 2017.It was organized by the Science Club of the College, conducted with the financial support from the Kerala State Science Technology and Environment (KSCSTE) Thiruvananthapuram. Power Point Presentation on the topic, Science and Technology for Sustainable Development of the future and Quiz Competition were held in association with NSD Celebrations.
- **World Wetland Day Celebrations 2018: WWD-18:** Science Club of Bishop Moore College, Mavelikara celebrated Wet Land Day – 2017: “WWD 18” in association with Department of Botany and Biotechnology with the sponsorship from Kerala State Council for Science and Technology, Thiruvananthapuram. One day lecture, video presentations, Quiz competition on the “Importance of Wetlands” and an intercollegiate presentation competition on the topic “Wetlands” were held in connection to WWD18. These programs are designed to enlighten the young minds about the importance of wetlands and motivate them to preach and practice the message of World Wetland Day. Dr. Abhilash R, Associate Professor, Christian College, College inaugurated WWD-18 and delivered the key note “Wetlands for Urban development” on 02/02/2018.
- **Other Celebrations:** The college celebrated the festivals, Onam and Christmas with various programmes and Inter Department Competitions. The Independence Day Republic Day was celebrated under the joint leadership of NCC and NSS volunteers. Fresher’s Day Celebrations were conducted to welcome the students who joined the college during the academic year.

INVITED TALKS / ACTIVITIES BY DEPARTMENT ASSOCIATIONS

- 1st November 2017: **Prof. Thomas V. Pulickal**, Associate professor in Political Science, Govt. College, Ambalapuzha delivered a lecture on “ *60 years of Development, Environment and Women Empowerment in Kerala*”.
- 07November, 2017 : **Dr. Sabu George**, Former Principal and Associate Professor in Statistics inaugurated the activities of Mathematics Department and shared with the students his expertise in the subject. The Session was followed by a Puzzle Solving Competition and a PowerPoint Presentation Competition at the interdepartmental level.

- 25 October 2017: **Dr. C. S. Praveen**, delivered a lecture on the topic “*From Quantum mechanics to Cosmology: A Layman Approach*”. A manuscript ‘Curiosity’, prepared by the BSc. Physics students, was released on the occasion.
- 24 October 2017: **Dr. P. Ananthapadmanabhan**, Associate Professor, Department of Chemistry, Maharajas College delivered lecture on “*Basic Concepts in Chemistry*”. Chemistry Association logo was unveiled on 24-10-2017 by Dr. Jacob Chandy, Principal of the College. Periodic table framed by B.Sc and M.Sc students showcasing the applications of 118 elements in different fields was exhibited during inaugural function
- One Day Seminar on “**Group Theory and Computational Chemistry**”, sponsored by KSCSTE was conducted on 12-12-2017. Dr. Koshy John, Associate Professor, Department of Chemistry, Marthoma College, Thiruvalla talked on “Group Theory” and Dr. Vipin Ipe Thomas, Assistant Professor, Department of Chemistry, CMS College discussed “Computational Chemistry”. Post Graduate students from neighboring colleges participated in the seminar.
- **Commerce Association 2017-18** was inaugurated by CA SALMAN, General Manager, Securities and Exchange Board of India (SEBI), Kochi.
- ‘*Communication and Personality Development*’ class by **John Kuruvila**, an Alumnus of the department, who is at present a successful businessman, gave great insights to students in the beginning of the academic year itself.
- Department of Commerce organized a ‘*Life Skills Development*’ Programme. Lecture was delivered by **Mr. Sajin Sreekumar**, an Alumnus of the Department of Economics.
- **Seminar on Intellectual Property Rights (IPR)** : For the sake of providing an idea about Intellectual Property Rights to the Students of this Department, the Department organized a “Seminar on IPR” by Sri. Jaydas, a faculty member of the department.
- **Yuva-Drona** : Yuva-Drona is an innovative programme offered by the Department of Commerce Here youngsters in groups present a current topic of importance. The audience could be a small group within the class, the whole class, other B.Com Classes, whole department, classes outside the department and even the whole college or groups outside the campus. It is also a medium of social extension. Yuva-Drona offers an E-skill Development programme too on how to use E-Payments and E-Wallets and is aimed at equipping students and staff for enhancing their skill in online payments. This is a very relevant topic in the context of demonitisation.
- **Commerce Week**: As a part of the Commerce week celebrations, several Cultural Programmes, Exhibition, Inter-Departmental Competitions like Business Quiz, Best Manager, Stock Games, Advertisement Making etc. were successfully conducted.
- **VIDYUTRA – All Kerala Commerce Fest (2017-18)**: The second edition of Vidyutra was organized in November 2017. 150 students from different Colleges across Kerala participated in 7 different events.
- The Department of Zoology Association activities were inaugurated by Dr. G. Nagendra Prabhu, Associate Professor, S.D. College, Alappuzha on 3rd November 2017. The inaugural session was followed by two technical sessions; one by Dr. G. Nagendra Prabhu on the topic “**Trash to Cash - A Case Study on Aquatic Weeds**” and the other by the fifth semester students on “**Cancer**” in connection with Cancer Awareness day celebrations.
- The Department organized an invited talk on “**Biodiversity**” by Dr. Oommen V. Oommen, Emeritus Professor, Department of Computational Biology, Kariavattom, as part of DBT STAR College Scheme on 26th February 2018.

- The Department organized an invited talk on "**How to study Biology**" by Dr. A. Bijukumar, Professor and Head, Department of Aquatic Biology and Fisheries, Kariavattom, as part of DBT STAR College Scheme on 17th March 2018.
- Dr. Kurian Mathew Abraham, Assistant Professor, Dept. of Aquatic Biology and Fisheries, Kariavattom delivered an invited talk on the topic "**Research Methodology**" on 21st March 2018, as part of DBT STAR College Scheme.
- **Mr.Ethiran Kathiravan**, from the University of Chicago, delivered a talk on the topic – “Love, Brain and Culture”, on 9th January 2018. His practical inputs and wisdom proved to be of immense help to the students.
- Mr. Rajesh Mohan, Overseas Academy, Angamaly, took sessions on Communication Skills for the Under Graduate students.
- **Laurel Literaria** :The annual Literary Fest of the Department, Laurel Literaria - 2018, was conducted on 27th and 28th February, 2018. The introductory speech was given by Dr. Sajeew Samuel Rose (Rtd. Principal Govt. Arts College Trivandrum) on the topic – “Feminism in Perspective”. This was followed by various inter collegiate competitions including the Literary Quiz competition, with quiz master Dr. Nair Anup Chandrasekharan, at the helm of affairs. The competition was won by St. Thomas College, Pala. Debate, recitation, short story writing & drawing competitions too were held and the winners were suitably felicitated.
- **Micro RNAs and its Significance**: An invited lecture was conducted as part of DBT STAR College Scheme on 19.03.2018 on ‘microRNAs and its significance’ for the students of the Department. The lecture was delivered by Dr. Ani V. Das, Programme Scientist at Cancer Biology Division of Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapuram.
- **Biotechnology in Forest Tree Improvement**: Dr. EM Muralidharan, Principal Scientist and Programme Coordinator, Forest Genetics and Biotechnology Division, Kerala Forest Research Institute, Peechi delivered a lecture on ‘Some problems in the use of Biotechnology for Forest Tree Improvement and its significance’ on 19.03.2018. This programme was also conducted as part of DBT STAR College Scheme, for all the students of the Department.

FIELD TRIPS/STUDY TOURS/INDUSTRIAL VISIT

- 21 Feb 2018 :BSc Physics Second semester and fourth semester students visit VSSC, Thiruvananthapuram
- 16 March 2018 : BSc Final year students visits CUSAT, Kochi and participated in a training programme
- 20-23 March 2018 : Training Program for BSc Physics students at CUSAT Photonics Lab
- 27 March 2018:BSc Chemistry students visit Milma Dairy
- 17 March 2018:BSc Chemistry students go for Hands On Training at CEPCI, Kollam
- 14 March 2018: B.Sc Chemistry students visited the labs of IIST, Trivandrum as a part of DBT Star scheme
- 15 March 2018: BSc Zoology Students visit Mudumalai Tiger Reserve
- 14-15 March 2018: BSc Chemistry students go for training at Kerala University Kariyavattom Campus
- 14-15 March 2018: BSc Zoology students undergo training at ICAR-CPCRI, Kayamkulam and Department of Aquatic Biology and Fisheries, Kariavattom Kayamkulam(Topic:Advances in Pest Management & harnessing Scientific Temperament)

- 13 March 2018: BSc Zoology students Visit Central Marine Fisheries Research Institute CMFRI, Kochi
- 26 October 2017: As a part of providing exposure to students, the Commerce Department organized a one day Industrial Visit to The Central Coir Research Institute, Alappuzha An awareness class on 'Coir Industry and its Products and Marketing' was delivered by its Director at their venue.
- 8-12 January 2018: The study tour of 2015-18 batch was organized to Mysore, Coorg, Chickmanglore and Waynad.
- 30 January-03 February 2018: Students of B.Sc Final Semester Physics went for field trip to Mysore, Wayanad, Chickmangalore and Coorg. 37 students and 4 teaching staff(Dr. Lynnette Joseph, Ms. Merin George, Dr. Arun Aravind and Mr. Javeesh Alex) participated.
- 26 March 2018: An **awareness programme** was organised as part of DBT STAR College Scheme in connection with World Water Day in the C.M.S. L. P. School, Kallumala on 26th March 2018.
- 2-5 March 2018: The S6 students went for an excursion to Wayanad and Wonderla, Kochi from 2nd March to 5th March accompanied by Mr. Yogesh Prasad, Mrs. Sisy Varghese, and Miss. Asha Soman.
- Seven students of the Department has attended a training programme on Molecular Biology at the Dept of Biotechnology, Cochin University of Science and Technology (CUSAT), Cochin, Ernakulam, under the mentorship of Dr. Saritha G. Bhat, Head, Dept. of Biotechnology, CUSAT. Ms. Merin Raichel Saji, Ms. Athira Anil and Ms. Jesly Elsa Thomas of Fourth Semester B.Sc. Botany and Biotechnology and Ms. Sreelekshmi P, Ms. Gayathri R and Ms. Athira Sudevan of Fourth semester B.Sc. Botany attended the programme.
- 23 July 2017 : III and IV Sem. M.Sc. Botany students visited Jawaharlal Nehru Tropical Botanic Garden & Research Institute (JNTBGRI) accompanied by Dr. Brijithlal ND and Mr. Robert Raju
- 23 October 2017: IV Sem. M.Sc. Botany students visited Central Plantation Crops Research Institute (CPCRI), Onattukara Regional Agricultural Research Station, Kayamkulam accompanied by Dr. Brijithlal ND
- 29 October-02 November 2017: III Sem. M.Sc. Botany students visited KFRI, Peechi NBPGR, Thrissur Parambikulam Wildlife Sanctuary IFGTB, Coimbatore accompanied by Dr. Dinesh Raj R, Dr. Asha Ramachandran, Dr. Sivaprasad A.
- 05 October 2017: S3 and S5 Botany & Biotechnology students visited National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram accompanied by Dr. Santhi WS, Dr. Prakash G. Williams
- 05-09 March 2018: S6 Botany and Biotechnology students visited Milma Dairy, Punnapra, Wayanad Wild life sanctuary, Ooty botanical garden, Mysore accompanied by Dr. Santhi WS Dr. Dinesh Raj R, Ms. Firdouse Basheer 2017: S3 and S5 Botany & Biotechnologystudents visited accompanied by
- 26 February – 03 March 2018: S6 Botany students visited Milma Dairy, Punnapra, Wayanad Wild life sanctuary, Ooty botanical garden, Mysore accompanied by Dr. Sivaprasad A, Mr. Robert Raju, Ms. Rinu V

PARENT TEACHER ASSOCIATION GENERAL BODY MEETINGS

- PTA Half yearly General Body meeting was held on 21 March 2018. Various institutional scholarships were distributed for the deserving students.

- Annual General Body PTA meeting was held on 13 October 2017 at 2 pm in the college Auditorium. Keynote address was delivered by Dr. Isaac George

FACULTY INVOLVEMENT IN PROFESSIONAL DEVELOPMENT

- **Dr. Deepthi G.R** participated in an International Seminar on "Coastal Biodiversity Assessment" organized by Dept. of Zoology, St. Gregorios College, Kottarakara from January 5-7, 2017.
- **Dr. Deepthi G.R** participated in 29th Kerala Science Congress held at Marthoma College, Thiruvalla from January 28-30, 2017.
- **Dr. Deepthi G.R** participated and presented a paper in National Seminar on "Recent Innovations and Current Trends in Biological Sciences" organized by Post Graduate Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikara from February 8-10, 2017.
- **Dr. Deepthi G.R** participated in National Seminar on "Recent Trends in Biomaterials" organized by Post Graduate and Research Dept. of Chemistry, Bishop Moore College, Mavelikara from February 15-17, 2017.
- **Dr. Deepthi G.R** attended the Refresher course (Special Summer School) from to 11/07/2017 to 31/07/2017 at UGC-HRDC Thiruvananthapuram.
- **Dr. Deepthi G.R** participated in a National Seminar on "Problems and Prospects of Wetland Conservation with special reference to Wetlands of Kerala" organized by Post Graduate and Research Dept. of Zoology, N. S. S. College, Pandalam from February 6-8, 2018.
- **Dr. Deepthi G.R** was the External Examiner for Biology Practical Examination of ISC XII at Bishop Moore Vidyapith, Kayamkulam on 13th Feb 2018.
- **Dr. Reeja Jose** participated in International Seminar on "Coastal Biodiversity Assessment" organized by Dept. of Zoology, St. Gregorios College, Kottarakara from January 5-7, 2017.
- **Dr. Reeja Jose** participated in One day Capacity Building Cluster Workshop for Internal Mentors of Walk with a Scholar Programme on January 12th 2017 at MSM College, Kayamkulam.
- **Dr. Reeja Jose** participated in 29th Kerala Science Congress held at Marthoma College, Thiruvalla from January 28-30, 2017.
- **Dr. Reeja Jose** participated and presented a paper in National Seminar on "Recent Innovations and Current Trends in Biological Sciences" organized by Post Graduate Dept. of Botany and Biotechnology, Bishop Moore College, Mavelikara from February 8-10, 2017.
- **Dr. Reeja Jose** participated in National Seminar on "Recent Trends in Biomaterials" organized by Post Graduate and Research Dept. of Chemistry, Bishop Moore College, Mavelikara from February 15-17, 2017.
- **Dr. Reeja Jose** attended an Orientation Programme from 22/11/2017 to 19/12/2017 at UGC-HRDC Thiruvananthapuram.
- **Dr. Reeja Jose** attended Refresher Programme in Environmental sciences from 09/01/2018 to 29/01/2018 at UGC-HRDC Thiruvananthapuram.
- **Dr. Reeja Jose** participated and presented a paper in National Seminar on "Problems and Prospects of Wetland Conservation with Special Reference to Wetlands of Kerala" organized by Post Graduate and Research Dept. of Zoology, N. S. S. College, Pandalam from February 6-8, 2018.
- **Dr. Nair Anup Chandrasekharan** attended a Refresher Course in English at UGC HRDC, University of North Bengal, Siliguri from 09/01/2018 to 29/01/2018.

- **Dr. Nair Anup Chandrasekharan and Ms. Anusha Das** attended a Short Term Course in Environmental Studies at UGC HRDC, University of Kerala, Thiruvananthapuram from 05/03/2018 to 12/03/2018.
- **Mr. Amit David** attended Refresher Course on Liberal Arts. UGC HRDC, Jawaharlal Nehru University, Delhi.
- **Dr. Nair Anup Chandrasekharan** was appointed as the coordinator of Foundation for the Study of Literature and Environment (FSLE- India) for the Kerala (South) region. (<http://www.fsleindia.org/dr-nair-anup-chandrasekharan/>)
- **Dr. Nair Anup Chandrasekharan** was nominated as a Jury for MBA soft skills test by APJ Abdul Kalam Technological University in 2018. He conducted the soft skills test, a part of the MBA Curriculum on 13/04/2018 at Mount Zion Institute of Science and Technology Chengannur, Kerala.
- **Dr. Nair Anup Chandrasekharan** participated in the Workshop on Revision of Syllabi of BA English Literature and BA Communicative English organised by the Board of Studies in English (Pass), University of Kerala, at Mahatma Gandhi College, Thiruvananthapuram, on 20th September, 2017.
- **Dr. Nair Anup Chandrasekharan** served as a Resource Person for the Four Day SDE Training Workshop at Thiruvananthapuram under the University Integration Scheme, ASAP, Department of Higher Education, Govt. of Kerala from 3rd to 6th June, 2017.
- **Ms. Simili Abraham** attended a Refresher Course in Environmental Studies.
- **Anjali Susan Ninan** attended a “Two Day Workshop on Programming in Python” jointly organized by the Department of Computer Applications, MACFAST, KSCSTE, CSI and UNAI on 7th and 8th of December, 2017.
- **Yogesh Prasad** was a resource person for the ‘One Day JAM Entrance Orientation Programme’ organized by Dept. of Mathematics St. Josephs College , Irinjalakuda on 3rd February 2018.
- **Yogesh Prasad** attended a “Three Day Workshop on Pedagogical Knowledge of Mathematics” organized by Kerala School of Mathematics, Kozhikode , KSCSTE, NURTURE on 24-26 March 2018.
- **Dr.D.Sajan** was involved in the preparation of the syllabus (Elective) PY 1661.4: NANO SCIENCE AND TECHNOLOGY CBCSS B.Sc Physics and has attended the syllabus revision workshop on 20th February 2018
- **Dr. D.Sajan** attended the Refresher Course in Environmental Sciences From 09-01-2018 to 29-01-2018 , HRDC University of Kerala
- **Ms .Jerin Susan John** attended Workshop on Computational Chemistry and Applications organized by SRIBS Kottayam from 30 December 2016 to 1 January 2017.
- **Ms .Jerin Susan John** attended 24th Hands-on Training on MOS Capacitor and Micro and Nano Characterization Techniques conducted at the Centre for Nano Science and Engineering, IISc Bangalore from 16th - 24th March 2017
- **Ms .Jerin Susan John** attended Horiba Optical School held in JNCASR, Bengaluru from 22th - 26th May 2017
- **Dr. Asha Ramachandran** received one month’s FLAIR research fellowship from Govt. of Kerala and it was availed at IIT Mumbai from 04.06.2017 to 03.07.2017.
- **Dr. Dinesh Raj R.** was nominated to the Board of Studies in Biotechnology (Pass), University of Kerala.

- **Dr. Brijithlal ND** served the Malpractice Prevention Squad of University of Kerala from July-September, 2017.
- **Dr. Santhi W.S.** attended a Seminar on “Plant taxonomy - A tool for Biodiversity” conducted by the Dept. of Botany University College, Thiruvananthapuram on 14.12.2017.
- **Dr. Santhi W.S.** attended a National Workshop on “Environmental, waste and energy auditing” held by the Dept. of Environmental Sciences, University of Kerala, Kayavattom campus from 21st to 23rd February 2018.
- **Dr. Santhi W.S.** participated in the World Wetlands Day Celebrations- 2018 organized by the Directorate of Environment and Climate change, Govt. of Kerala held at VJT hall, Thiruvananthapuram on 2nd February 2018.
- **Dr. Jisha S.** attended a seminar on “Plant taxonomy - A tool for Biodiversity” conducted by the Dept. of Botany University College, Thiruvananthapuram during 14-15, December 2017.
- **Dr. Jisha S.** participated in the syllabus revision workshop of CBCSS in Biochemistry (UG) organized by the Board of studies in Biochemistry (Pass) on 05.12.2017 at Dept. of Biochemistry, University of Kerala, Karyavatom.
- **Dr. Sivaprasad A.** attended a three days workshop on “Basic Phytochemical techniques” organized by the Dept. of Botany, Govt. Victoria College, during December 13-15, 2017.
- **Dr. Asha Ramachandran** chaired a session in national seminar on conservation of Wetland ecosystems for long term ecological security” organized by SN College for women, Kollam from 18th to 20th January 2018.
- **Mr. Robert Raju** participated in the national seminar on conservation of Wetland ecosystems for long term ecological security” organized by SN College for women, Kollam from 18th to 20th January 2018
- **Dr. Asha Ramachandran** presented a paper entitled “A comparative analysis of larvicidal and cytotoxic effects on *Lantana camara* L. and *Gliricidia maculata* H.K & B.” in national seminar on conservation of Wetland ecosystems for long term ecological security” organized by SN College for women, Kollam from 18th to 20th January 2018.
- **Dr. Asha Ramachandran** participated in the CEP course on “Proteomics: from Protein purification to characterization” conducted by IIT Bombay during June 27-01 July 2017.
- **Dr. Dinesh Raj R** attended a Refresher Course in Environmental Sciences (sponsored by UGC) during January 09-29, 2018 at HRDC, University of Kerala, Kariavattom.
- **Dr. Asha Ramachandran** attended a Refresher Course in Bioinformatics, Molecular Biology and Microbiology (sponsored by UGC) during February 14.02.2018 to 06.03.2018 at UGC-HRDC, University of Kannur.
- **Dr. Santhi W.S.** attended Refresher Course in life sciences (sponsored by RUSA) during November 08-28, 2017 at HRDC, University of Kerala, Kariavattom.