



**St. Mary's College (Autonomous)**  
Reaccredited with 'A+' Grade by NAAC (Cycle IV)  
Thoothukudi



**Criterion: III – Research Innovation and Extension**  
**3.6.1 Outcomes of extension activities in the neighbourhood**  
**Community. Year: 2018-2023**

### 3.6 Extension Activities

**3.6.1 Outcomes of extension activities in the neighbourhood community in terms of impact and sensitizing the students to social issues and holistic development, and awards received if any during the last five years**

#### **St. Mary's College (Autonomous) Thoothukudi** **Environment & Sustainability**

➤ **2022 - 2023**

##### **Global Environmental Crisis**

IQAC conducted an orientation programme on 06.06.2022 in association with the MGNCRE, Mahatma Gandhi National Council of Rural Education, Ministry of Education. Dr. M Glory, Head & Associate Professor of Botany and Director of Centre for Eco Feminine Excellence addressed the first UG students on the theme “Global Environmental Crisis” with a statistical data about the water depletion, climate change, pollution, decreasing ground water table, global warming increasing mean sea level etc., and initiated the students to take the responsibility on their shoulders to participate in global environmental governance.



##### **Drug Free Tamil Nadu Pledge**

All the NSS programme officers along with NSS volunteers took Drug Free Tamil Nadu Pledge on 11.8.2022 for as instructed by Government of Tamil Nadu.

**Drive Against Drugs** – E-Pledge was taken by NSS Programme coordinators on 17.08.2022. To promote national integration and communal harmony among the people of all religions, languages and regions, Sabdhavava Diwas is observed nationwide on 20.8.2022. NSS volunteers and programme officers took pledge for “Sabdhavava Diwas” on 18.8.2022 at 11.00 am.

### **Molluscan Fisheries and Aquaculture in India: Progress, Problems and Prospects**

On 30.8.2022 PG and Research Department of the Zoology has organised its Association Meeting titled as ‘Molluscan Fisheries and Aquaculture in India: Progress, Problems and Prospects’. Ms. M. Kavitha, M.F.Sc., ARS., Scientist Shellfish Fisheries Division Tuticorin Regional Station ICAR-Central Marine Fisheries Research Institute, Tuticorin was the chief guest. 142 students benefited.

### **Wonders of the Microbial World**

On 09.09.2022 Marian Star Centre and PG and Research Department of Zoology organised a guest lecture on Lecture on Wonders of the Microbial World. Dr. L. Shakila, Assistant Professor, PG and Research Department of Zoology, Ethiraj College for Women, Chennai was the chief guest. 62 participants benefited.



### **Plate Tectonics and Continental Drifts**

The Marian Star Centre, Department of Botany organized an invited lecture on Plate Tectonics and Continental Drifts sponsored by DBT, Star College Programme, New Delhi for the UG students on 9th September 2022. Dr. S. Selvam, Assistant Professor in Geology,

V.O.Chidambaram College, Thoothukudi was the resource person. 90 students from the department of Botany benefitted through this invited lecture.

### **Life is a gift unwrap it**

On 10.09.2022, "Life is a gift unwrap it" an awareness program was organized by the Counselling forum and the Psychology department. Sr. Kenzy, Counsellor was the resource person. All the women in Kokkirakulam Prison, Palayamkottai, and all the Psychology students attended the program. On 12.09.2022 "The Value of life an awareness talk was organized by the Counseling forum. Sr.Lily Antony and Ms. Rohini the college counsellors addressed all the students during Morning Prayer.



### **Beach cleaning**

Beach cleaning was done in Inigo Nagar on International Coastal Cleanup Day 17.09.2022. 100 NSS volunteers from all the four units along with the municipal workers cleaned the sea shore. Students collected and separated wastes materials found in the beach



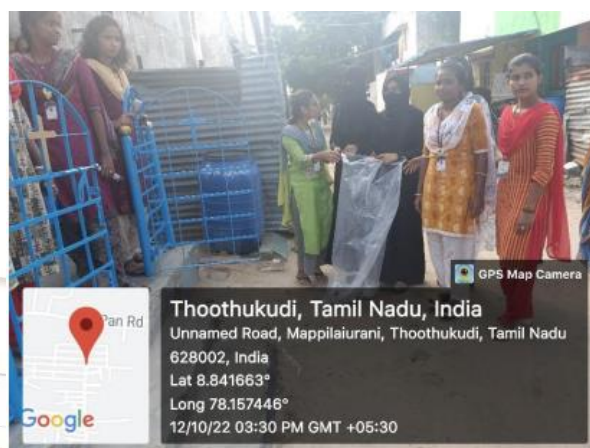
### **Harmony of mind and body**

On 10.10.2022 "Harmony of mind and body" a mental health boot camp was organized by the Counselling forum. Dr.S.Sivasailam, Senior Consultant Psychiatrist was the resource person. 55 players of the college attended the program.



## Health and Hygiene

The staff and students of the department of psychology went to tsunami Nagar on 12.10.2022 to create an awareness on Health and Hygiene among the people residing in that area. We educated them with cleanliness ideas and hygiene tips. We provided them cleaning soaps and biscuits for the kids in their locality. We also listened their complaints regarding the cleanliness in and around their area. Overall it was a nice experience for the students.



## Mass cleaning campaign

Mass cleaning campaign was conducted by the students of all NSS units. Seventy one students from Unit No 67 and 129 cleaned SS Pillai market in Thoothukudi on 17.10.22. Students collected and separated biodegradable waste and plastic waste and handed it over to the municipality. Counselor of that area attended the program and took pledge with students and people. Students also went around the houses in that area and gave awareness about solid waste management. 50 volunteers of units 66 and 130 cleaned the coastal area in Thoothukudi. They collected and separated waste and handed it over to Thoothukudi municipality.



## **Solid Waste Management**

A talk on solid waste management was held on 29.10.22 in the college auditorium. Officers from municipal addressed the students about solid waste management. They instructed the students about the separations of garbage into biodegradable and non-biodegradable. They also explained the volunteers about the need for the reuse of biodegradable wastes and recycling of the non bio degradable wastes. Certificates were also distributed for the students who cleaned the sea shore on coastal cleanup day

## **Tree Plantation**

On 2.11.2022 Tree Plantation was organised by Green campus club. Beneficiaries: 64.  
On 10.11.2022 Charity Virtue - World Food Day organized by Health and Hygiene Club. Beneficiaries: 35



## **Challenges in Modern Society**

On 10.11.2022 "Challenges in Modern Society" an insight program was organized by the Youth Red Cross and the Counselling forum. Mr. S. John Moses Giritharan, Assistant Professor, Department of Criminology, Kamaraj College, Thoothukudi was the resource person. YRC and RRC students attended the program.



Criterion III



SSR Cycle V



## Organic farming

The Marian Star Centre, Department of Botany has organized the in-house training programme on Organic farming, sponsored by Department of Biotechnology, Star College Programme, New Delhi from 19th to 21st December 2022 in the Botany Laboratory for the II UG students of Botany. Dr. Beulah Jerlin. S, Assistant Professor of Botany and Dr. Mary Santhi. R, Assistant Professor of Botany, St. Mary's College (Autonomous) were the resource persons. Total of 15 students were benefitted from the training program.



## Prevention of Drug Abuse

An awareness programme on 'Prevention of Drug Abuse' was conducted at St. Mary's College (Autonomous), Thoothukudi on 5th January 2023 in Star Hall. Dr. L. Sriram MD., Assistant Professor, Department of Psychiatry, Government Thoothukudi Medical College Hospital, Thoothukudi was the chief guest. The active participants were the volunteers of NSS, Youth Red Cross and Red Ribbon Club. A realization on consumption of alcohol and its negative impacts was conveyed to the participants by Dr. L. Sriram. The volunteers were asked to help the alcoholics, by directing them for a medical observation, counseling, mental and physical health support from a Psychiatrist. At the end volunteers were interrogated regarding their understanding towards the message conveyed by Dr. L. Sriram. Nearly 300 students from various disciplines were the beneficiaries

**Let's spread  
vibes**

On



**positive**

09.02.2023

"Let's spread positive vibes" an insight program was organized by Youth Red Cross and the Counselling forum. Mr.S.John Moses Giritharan, Assistant Professor, Department of Criminology, Kamaraj College, Thoothukudi was the resource person. YRC first year 35 students and the Thattaparai Government children home 38 students attended the program.



**No Plastics**

An awareness program on cleanliness was organized on 13.02.2023. Mr. V. Ariganesan M.sc, MBA, sanitary officer, North zone, Thoothukudi Corporation and Mr. Rajasekaran, sanitary officer, East zone, Thoothukudi Corporation were the resource persons. They insisted the not to use plastics. They also explained the safe methods to dispose plastics Students interacted with them cleared their doubts about plastic waste disposal.



Criterion III

SSR Cycle V



### **Anti-drug awareness- Frozen Frame**

On 15.2.2023 "Anti-drug awareness- Frozen Frame" was organized by the Counselling forum, Anti-drug club, YRC, and RRC club. Students displayed the health hazards associated with the use of drugs and the importance of leading a healthy and safe lifestyle. All the college students visited the frozen frame. CAREER GUIDANCE AND PLACEMENT CELL In association with Department of Computer science



### **International Year of Millets 2023**

IQAC uploaded the Action Plan to celebrate the 'International Year of Millets 2023' as per the guidelines of UGC in the UGC website on 13.10.2022

To celebrate the International Year of Millets 2023 Quiz Club & Library Committee, in Collaboration with IQAC, St.Mary's College (Autonomous) Thoothukudi organised an Online Quiz on the theme "Millets" on 11th January

PG and Research Department of Mathematics, St.Mary's College(Autonomous), Thoothukudi in collaboration with the Internal Quality Assurance Cell celebrated International year of Millets 2023 on 16.2.2023.





### Certificate of Appreciation

Dr.Sr.A.S.J. Lucia Rose, our Principal received the certificate of Appreciation from MGNCRE, Department of Higher Education, Ministry of Education for her contribution to the World Environment Day Celebrations June 2022 by facilitating and completing the Green activities in the campus



### Contextualising the Cultural Studies: The What and Why of Cultural Theories

Dr. Saji Matthew, Associate Professor of English, School of Letters, Mahatma Gandhi University, Kottayam, Kerala shared his expertise on “Contextualising the Cultural Studies: The What and Why of Cultural Theories”. Scholars and faculty pooled in to this knowledge

sharing session. Nearly 44 people presented their paper in blended mode. Of these two students, Ms. Divya Dibashini of II M.A English, St.Mary's College (Autonomous), Thoothukudi and Ms. Sherly Jim of St. Xavier's College (Autonomous), Palayamkottai bagged the Best Paper Presenter award.

### **Digital Transformation for Sustainable Economic Development**

On 31-Jan-2023, an International Webinar on "Digital Transformation for Sustainable Economic Development" organized by the Department of Economics, St. Mary's College (Autonomous) Thoothukudi. Dr. Gunasekar Thangarasu, Head of Department, Department of Professional Industry Driven Education (PRIDE) MAHSA University, Selangor, Malaysia was the resource person. Number of beneficiaries was 98

### **Green Gold Live Treasure**

On 14.02.2023 a Guest Lecture on 'Green Gold Live Treasure' was organized by Centre for Eco-Feminine Excellence and Department of History, St. Mary's College (Autonomous). Dr. S. Francisca, Former Associate Professor and Research Director, St. Ignatius College of Education (Autonomous) was the resource person. Beneficiaries: 52 students



### **Coastal Cleaning**

On 17.02.2023 Coastal Cleaning was organized by Centre for Eco-Feminine Excellence and Swachh Bharath Mission of the Municipal Corporation. Mr. C. Rajasekar, Sanitary officer, Municipal Corporation, Thoothukudi and Mr. A. Ashok Kumar, Zonal Supervisor, Swachh Bharath Mission was the resource person. Beneficiaries: 52 students





### **Beat Plastic Pollution**

On 13.03.2023 an Awareness campaign – Beat Plastic Pollution was organized by: Centre for Eco-Feminine Excellence. Mr. C. Rajasekar, Sanitary officer, Municipal Corporation, Thoothukudi was the resource person: Beneficiaries: 42 students

#### **➤ 2021-2022**

### **Ozone day and Car Free Day**

In order to make awareness to the student community Eco feminine excellence forum observed the ozone day and car free day on September 16th and 22nd respectively. Slogans, quotes, data's and facts related to the causes and impact of ozone layer depletion were displayed in the placards in and around the college campus. Students and staff members of the college are requested to use the common transport to decrease the air pollution.

### **Ecofeminism in the Post-theoretical Era**

The PG & Research Department of English, organised the first English Literary Association meeting on 18th September 2021. Dr.A.Mallika Nair, Assistant Professor of English, Vimala College, Thrissur, Kerala in her expert talk on “Ecofeminism in the Post-theoretical Era” focused on the nuances of the heritage of ecofeminism as multiple braided praxis and the divergent intellectual positions in ascertaining the environmental justice. 162 students and 16 faculty attended the meeting in the online mode

### **Ending the HIV Epidemic: Resilience and Impact**

Red Ribbon Club, Youth Red Cross and Health and Hygiene Club of St. Mary's College (Autonomous), Thoothukudi in collaboration organized an online awareness meeting on the topic “Ending the HIV Epidemic: Resilience and Impact” on 2 nd December, 2021 at 4 p.m. Mr. S. John Moses Giritharan M.Sc., (Criminology), M.Sc., (Psychology), MSW, M.Phil,

Assistant Professor and Student Counsellor, Department of Criminology and Police Administration, Kamaraj College, Thoothukudi was the resource person. The meeting started with an invocation. Dr. S. Selvi, Assistant Professor, Department of Zoology, St. Mary's College (Autonomous), Thoothukudi welcomed the audience and introduced the resource person. Mr. S. John Moses Giritharan, the resource person enlightened the audience on the importance of spreading awareness. He described the objectives of the club. He elaborately explained the history, prevention and treatment methods for HIV. He illustrated the benefits of eating healthy food. The students of various clubs of I UG and II UG of St. Mary's College (Autonomous), Thoothukudi participated in the awareness meeting. More than four hundred students participated via zoom and youtube platform. Ms. S. Anusia, Assistant Professor of English (SSC) delivered the vote of thanks. The awareness meeting ended opportunely with the college anthem

### **Soil Day**

To commemorate the Soil Day which is celebrated on December 5th, Soil awareness was created among the staff and students of the college by displaying banners and pugnards in the college campus. A webinar on soil awareness programme was arranged. Dr. P. Thangavel, Assistant Professor, Department of Environmental Sciences, Periyar University, Salem was the resource person. He gave a lecture on „Soil Management Techniques“. He gave a vivid idea of soil contamination with heavy metals and remediation methodologies. Students of the Centre for ECO-Feminine Excellence were the beneficiaries. 40 students participated in the programme



### **Environmental Cleaning and Distribution of Fan & Sewing Machine**

The CDP visit to Palayakayal was on 11.10.2021 by the Department of English SSC, with a group of eighteen students from II B.A. English Literature (SSC) for an entrepreneurial programme on “Environmental Cleaning and Distribution of Fan & Sewing Machine” in



ParipoornaMadha Church, Palayakayal. The members from Lion's Club gave one sewing machine and a fan for the people in Palayakayal. The students from II B.A English divided themselves in to groups and cleared the weeds from the surroundings near school.

### **Human Wildlife conflict Mitigation**

The Marian Star Centre, Department of Botany organized an invited lecture on Human Wildlife conflict Mitigation, sponsored by Department of Biotechnology, Star College Programme, New Delhi on 17th December 2021 in the Fatima Hall for the II UG, II PG students of Botany and II PG students of Zoology in the presence of Rev. Dr. Sr. Arockia Jenecius Alphonse, overall coordinator and Member Secretary, Star College Programme. Mr. Abishek Tomar, District Forest Officer, Thoothukudi district was the resource person. The programme started with the prayer song and a welcome address. He started the talk with the basic introduction about the wildlife. He threw insight about the conflict those wild animals were facing now days. He shared some of the common methods that could be used to avoid the entry of wild animals in the rural areas and about the Wildlife Protection Act which was introduced in 1972. He also guided and motivated us on how to crack competitive examinations. At last he bid a call for the students to join the wetland mission. Nearly 45 students were benefitted through this programme. The lecture changed the view of the growing generation about wildlife. The lecture was so interesting and lively

### **Breeding and Culture of Ornamental Fishes**

The Department of Zoology arranged a training programme on “Breeding and Culture of Ornamental Fishes” for III UG students at Rajan Aquafarm, Sakkammalpuram under the DBT STAR College Scheme on 18th December 2021. Our students visited the Aquafarm and observed a total of 150 species of African cichlids cultured in different types of ponds depending on their size and age. All fishes available in this farm are only mouth breeders. Experts demonstrated the harvesting method of fries from the mouth of female fish. The students learnt the different culture methods of mouth breeders. The students also observed the collection of fishes of different stages from the pond, transfer of fishes to different ponds and feeding methods.



Students benefited from this training programme and acquired practical skills and research ideas on Aquaculture

### **National Birds Day**

National Birds Day was celebrated by Health and Hygiene Club, St.Mary's College (Autonomous), Thoothukudi on 05.01.2022. A rally was conducted to bring awareness among the students and public about the importance of birds in our ecosystem and how to protect them. Placards with quotes about birds and ways to conserve birds were displayed by the students. The students participated enthusiastically and reported that the rally brought awareness to them



### **Chemical pesticides versus Natural Pesticides for Safe Storage of Food Grains from Insect Pests**

An invited lecture on the topic 'Chemical pesticides versus Natural Pesticides for Safe Storage of Food Grains from Insect Pests' was organized as a part of the Star College Programme by the Marian Star Centre, Department of Zoology, St. Mary's college, Autonomous, Thoothukudi, on 28th January 2022 through Google meet Virtual platform. Dr. S. Ezhil Vendan, Scientist, Food Protectants and Infection Control Department, CSIR-Central Food Technological Research Institute, Mysore, Karnataka was the resource person. The talk was focused on various insect pests that affect stored food grains. The resource person explained the adaptive features of the different classes of insects that render them to be effective pests. He also emphasized the importance of the natural pesticides and discussed the negative impact of chemical pesticides. The UG and PG students of Department of Zoology and Chemistry were the beneficiaries. 113 students and Faculty attended the lecture



### **Innovative surrogate of plastic**

The department, along with IIC organized an Inter departmental competition on the topic Innovative surrogate of plastic on 23.2.2022. Entries were invited from all the departments and the best three were selected and a cash prize of Rs. 500, Rs. 300 and Rs. 200 were given respectively

### **Prospecting of Fishery Resources into Value Added Products**

On 21st March 2022, Unnat Bharat Abhiyan of IIT, New Delhi has sanctioned Technology Development Project to the UBA of St. Mary's College (Autonomous), Thoothukudi. The project proposal entitled "Prospecting of Fishery Resources into Value Added Products" was submitted by Dr. P. Subavathy, Principal Investigator, Assistant Professor, PG and Department of Zoology under the able guidance of Dr.Sr.S.Kulandai Therese, UBA Coordinator and Deputy Principal. The project was approved UBA/15/0045/C-41151 and sanctioned the amount of Rs.1,00,000/- under Technology Development under the Subject Expert Group of Agriculture on March 2022

#### **➤ 2020-2021**

### **Marine Biology**

Department of Zoology organized an international webinar on Marine Biology through online mode on 11-Aug-2020. Dr. I. Jagadis, Principal Scientist and Scientist-In-charge, Tuticorin Research Station of CMFRI, Tuticorin and Prof. Kirsten Benkendorff, Director, National Marine Science Centre, School Environment Science and Engineering, Southern Cross University, Lismore, Australia were the resource persons. Around 200 students and faculty from various colleges participated in the webinar. Dr. I Jagadis delivered a lecture on breeding of gastropods and its commercial importance and Prof. Kirsten Benkendorff delivered a lecture on Medicines from Marine mollusc. She gave an overview of harnessing molluscs for pharmaceutical purpose.

## **Support Of Microbes For Successful Regeneration Of Earthworms**

Organised an association meeting on “Support Of Microbes For Successful Regeneration Of Earthworms” by Dr.S.Sudhakar, Profesor, Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli on 14-Oct2020. 95 students and 6 staff members participated.



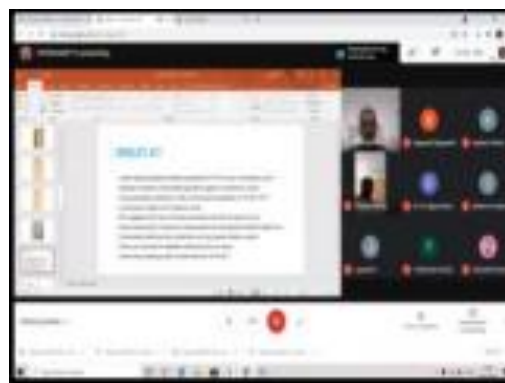
## **Biodiversity and Bioprospecting**

A Two day Webinar on Biodiversity and Bioprospecting was conducted on 20-Jan-2021 and 21-Jan-2021 Sponsored by Tamil Nadu State Council for Science and Technology. Dr. G. N. Hariharan, Director- Biotechnology, M.S. Swaminathan Research Foundation, III Cross Street, Taramani Institutional area, Chennai, Tamil Nadu; Dr. V. Manimegalai, Associate Professor & Head, Department of Botany, Sri Parasakthi College for Women (Autonomous), Courtallam, Tamil Nadu; Dr. P. Ravivhandran, Professor & Head Department of Plant Science, Manomaniam Sundaranar University, Tirunelveli; Dr. N. Thajuddin, Professor Department of Microbiology School of Sciences, Bharathidasan University, Tiruchirappalli; Dr. A. Benniamin, Scientist E & Head Botanical Survey of India, Western Regional Centre, Pune; Agri Dr. Y. Rajakumar, Former Deputy Director of Horticulture, Govt. of Tamil Nadu were the Resource persons. UG and PG Botany students of nearly 144 participated.



### **Culture Practices in Bee Keeping**

The meeting of the Zoology Association was held on 05-Feb-2021 through Google platform. Dr. M.Tamilselvi Associate Professor of Zoology, V.V. Vanniam Perumal College for Women Virudhunagar served as the resource person. Dr.Tamilselvi on her lecture on ‘Culture Practices in Bee Keeping’ focused on the byproducts like primary and secondary products from apiary and the scope and importance of learning Apiculture



### **Remote Sensing and GIS in Biodiversity**

On 24th February 2021, an invited lecture on “Remote Sensing and GIS in Biodiversity” was organised by the Department of Botany in the Botany Lecture Hall. Dr.John Prince Soundranayagam, Associate Professor of Physics, IQAC Coordinator, V.O. Chidambaram College, Thoothukudi was the resource person. 105 students from Computer science, Botany, Zoology and Physics Department and 7 from other colleges benefitted a lot from the lecture.

### **Urban and Peri – Urban Farming**

One day workshop (Offline and online) on “Urban and Peri – Urban Farming” was organized by Green Campus, St. Mary’s College (Autonomous), Thoothukudi in collaboration with Department of Biotechnology, Ministry of Science and Technology on 25th February, 2021. Agri. Dr. Y. Raja Kumar was the resource person. He gave a lecture on “Urban and Peri – Urban Farming”. Dr. Y. Raja Kumar explained the importance of gardening and how it can be done at low cost. During session II the participants in offline mode were given the task of identifying green leafy vegetable plants and gardening implements. A total of two hundred and twelve students (offline and online) were benefitted from the workshop. Sales of seeds, grow bags and books on home gardening were available during the workshop. Totally the participants enjoyed and learned a lot in a comfortable environment. The style and the knowledge of the presenter was totally amazing

### **Development of Sustainable Bioplastic products from Renewable Resources: Opportunities and Challenges**

Conducted an International webinar on 18-Mar- 2021 through Google meet on the topic “Development of Sustainable Bioplastic products from Renewable Resources: Opportunities and Challenges” by Dr. Sudhakar Muniyasamy, Polymers and Composites CSIR Chemical Cluster, Centre for Scientific and Industrial Research (CSIR), Pretoria, South Africa. Totally 150 members participated and benefitted in this international webinar.

### **World Water Day**

In order to safeguard water and give awareness about the significance of water and celebrate World Water Day on 22nd March 2021, a meeting was convened for the I Year students with the theme “valuing water” Dr. Shivakumar, Head and Assistant Professor of Tamil, Kamaraj College, Thoothukudi addressed the students on “The preservation of water”.



### **Innovation and Start up Ecosystem Enablers**

The Department of English (SSC), in association with the Institution’s Innovation Cell (IIC), organised a webinar on Innovation and Start up Ecosystem Enablers on 30th March, 2021. The Chief Guest, Mr. P. Vijayavel CEO, Social activist and Green Visionary, DCE Technology and Jaam Communications, Virudhunagar gave a speech on the topic Innovation and Startup Ecosystem Enablers. The speaker very proficiently explained the term 'Ecosystem' and the hazardous waste which is emitted in the environment. He spoke about different types of trees which could be grown in this humid climate. He insisted that each and every individual should be responsible and come forward to form teams to save our environment. Terrace Gardening was also highlighted in his speech. The discourse was followed by a question and answer session in which the participants of the webinar asked many thoughtful and valuable questions.



## **Environmental Biotechnology**

A One Day National webinar on “Environmental Biotechnology” was organised by the Marian Star Centre, Department of Botany, St. Mary’s College (Autonomous), Thoothukudi in collaboration with Department of Botany, Holy Cross College (Autonomous), Nagercoil on 12th April 2021 through Zoom platform. The program was presided by Dr. Dennish Babu, Assistant Professor of Physics, Chettinad College of Engineering and Technology, Karur, Tamilnadu and Dr. M. Jerold, Assistant Professor, Department of Biotechnology, NIT, Warangal, Telangana State, India. Nearly 77 students from Holy Cross College, Nagercoil 161 students from our college, 12 students from other colleges, 15 research scholars and 19 faculty members other have been the beneficiary for the programme.

## **Integration of Science and Humanities in Bio-Diversity Conservation**

School of Biological Sciences in collaboration with PG and Research Department of Commerce, St. Mary’s College (Autonomous), Thoothukudi, along with PG and Research Department of Commerce, Rani Anna Government College for Women, Tirunelveli organized an International Virtual Conference on Inter-Disciplinary Research Perspectives: Integration of Science and Humanities in Bio-Diversity Conservation on 24th April 2021 sponsored by the Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi. Eminent Scientist Dr. Fr. Ignacimuthu S.J. World Top One Percent Scientist, Director, Xavier Research Foundation, St. Xavier’s College discussed about the Role of Agriculture on Bio-diversity. Dr. Ramasamy Rajesh Kumar, Research Scientist, Institute of Nuclear Agricultural Sciences, College of Agriculture and Biotechnology, Zhejiang University, China PR, delivered a talk on Role of Biodiversity on Human Health, Economy and Wellbeing. The webinar was organised in Zoom platform and streamed in YouTube around 500 participants participated and benefitted from throughout India.

### **➤ 2019-2020**

## **Museology and the Preservation of Museum**

The History Association meeting was held on 22.07.2019 in the Star Hall. Ms. S. Sathyavalli, Curator, Government Museum, Tirunelveli gave a speech on “Museology and the Preservation of Museum”.

## **Fundamentals & Advances of Energy Sources**

A Guest Lecture on “Fundamentals & Advances of Energy Sources” sponsored by the Department of Biotechnology, Government of India, New Delhi under the Star College programme was organised by the Department of Physics, St. Mary’s College (Autonomous), Thoothukudi on 16th August 2019 in the Botany Lecture Hall. Dr. SumithrajPremkumar, Assistant Professor of Physics, St. John’s College, Palayamkottai was the resource person. I and III year students of the department of Physics along with 6 faculty members were the beneficiaries

## **Edible Fungiculture**

A One Day Workshop on “Edible Fungiculture” was organized by the Department of Botany, in the Botany Lecture Hall under the Star College Scheme sponsored by the DBT, New Delhi on 12th September 2019. Mr. M. M. Shahul Hameed, B.Com., Chairman, MSM Mushroom Corner, Tirunelveli and Mrs. M. AyishaJameela, BE., MBA., Director, MSM Mushroom Corner, Tirunelveli were the resource persons

## **Strategic Human Resource Management – A Global Perspective**

A One Day National Conference on “Strategic Human Resource Management – A Global Perspective” was organized by the Research Advisory Committee, St. Mary’s College (Autonomous), Thoothukudi on 13th September 2019. The conference began at 10 a.m. in the Conference Hall. Dr. Julius Ceaser, Assistant Professor of Commerce, St. Joseph’s College (Autonomous), Trichy inaugurated the conference. He spoke about the importance of human resources for the betterment of the organization. Dr. Catherine Nirmala, Head and Associate Professor, PG Department of Commerce, St. Agnes College (Autonomous), Mangalore chaired the technical session on HRM - A Global Perspective. She spoke on the role of HR for the growth of companies in the worldwide perspective. She discussed about the statistical information about the HR perspective in India and abroad. Around 40 papers were presented and the paper presentation session was highly informative. Dr. Catherine Nirmala, Head and Associate Professor, PG Department of Commerce, St. Agnes College (Autonomous), Mangalore, Dr. Sarala Lashkmi, Auditor, Tamilnadu Electricity Board, Tirunelveli, Dr. T. Chellamal, Assistant Professor of Commerce, A.P.C Mahalaxmi College, Thoothukudi, Dr. S. Anthony Rahul Golden, Assistant Professor of Commerce, St. Xavier’s College (Autonomous), Palayamkottai and Mrs. S.A. RahmathAmeena Begum, Head and 26 Assistant



Professor, Department of Business Administration, WavooWajeeha Women's College of Arts & Science, Kayalpatnam were the moderators for the paper presentation session. Dr. N. Pakshirajan, Assistant Professor of Economics, V.O.Chidambaram College, Thoothukudi delivered the valedictory address. Around 200 participants from various colleges actively participated in the conference.

### Plastic Free Environment

On 16th September 2019, a coastal cleanup programme was organised in the Pearl City coastal area under the theme of Plastic Free Environment. The programme started with the rally which was flagged by our Principal Dr. A.S.J. Lucia Rose and reached the beach after which students collected the wastes and segregated them into biodegradable and non biodegradable wastes in separate baskets. The students were provided with pamphlets with environment related slogans. Students actively participated in the rally as well as the cleanup programme

### Water Conservation and Plastic Free Village

The Department of Mathematics organised the CDP and UBA programme on 28/09/2019 at Korampallam on the topic "Water Conservation and Plastic Free Village" under Jal Sakthi Gram and Swachata Hi Sewa. Ms. Muthumari and Ms. Doni Limra of II B.Sc. Mathematics gave an awareness speech. The students performed Tableau and Awareness Song. To



improve avoiding plastics, the students disposed plastics from the village and gave cloth bags to the people and insisted them to use it regularly. Also the students generated awareness through Rally

## **Capacity Building Programme on Marine Ecosystem and Coastal Livelihood for Sustainable Development**

The Research Advisory Committee submitted the Research Proposal under the Broad area on Marine Studies and Research Hub and the Project entitled “Capacity Building Programme on Marine Ecosystem and Coastal Livelihood for Sustainable Development” to the UGC under the Scheme for Trans-disciplinary Research for India's Developing Economy (STRIDE) on 30th September 2019. II PG Students of Physics, Chemistry, Botany and Computer Science submitted Students’ Project to TamilNadu State Council of Science and Technology.

### **Blue Biotechnology**

A guest lecture was conducted by the Department of Zoology under the STAR College Programme of St. Mary’s College (Autonomous) on 09.12.19 in the Fatima Hall. Dr. S. Kalidass, Associate Professor, Department of Animal Science, ManonmaniamSundaranar University, Tirunelveli, addressed the audience on “Blue Biotechnology”.

### **Forest and Biodiversity**

The students of Department of Zoology attended a guest lecture on “Forest and Biodiversity” on 10.12.2019 in the STAR HALL as a part of the Star College Programme, sponsored by the DBT, New Delhi. Mr. S. Vimal Kumar, Forest Range Officer, Srivaikundam gave a talk on the various biogeographic realms of the world and clearly explained about the ten geographic divisions or zones of Indian topography

### **Forest and Biodiversity**

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### **Soil Analysis**

A One Day Faculty Training Programme on “Soil Analysis”, sponsored by Department of Biotechnology, Govt. of India, New Delhi was organized by Marian Star Centre, Department



of Chemistry on 12th December, 2019 in the star hall. Dr. S. Jothimani, Professor, Agricultural College and Research Institute, Killikulam, Vallanadu was the resource person

### **Plant Microbe Interaction**

Guest Lecture on Plant Microbe Interaction sponsored by Department of Biotechnology, Govt. of India, New Delhi under Star College Scheme Programme was organized by the Department of Botany, St. Mary's College (Autonomous), Thoothukudi on 13th December, 2019 in the Botany Lecture Hall. Dr. Egbert Selvin the Associate professor at St. Josephs College Trichy was the resource person. 43 students from I B.Sc. Botany and 36 students from II B.Sc. were benefited from this lecture.

### **Origin and Diversity of Bryophytes**

Guest Lecture on Origin and Diversity of Bryophytes sponsored by Department of Biotechnology, Govt. of India, New Delhi under Star College Scheme Programme was organized by the Department of Botany, St. Mary's College (Autonomous), Thoothukudi on 16<sup>th</sup> December, 2019 in the Botany Lecture Hall. Dr. A. E. Dulip Daniels, Associate Professor and Head, Botany Department and Research Centre, Scott Christian College (Autonomous), Nagercoil was the resource person. 43 students from I B.Sc Botany were benefited by this lecture

### **Plant Systematics**

Guest Lecture on Guest Lecture on Plant Systematics sponsored by the Department of Biotechnology, Govt. of India, New Delhi under Star College Scheme Programme was organized by the Department of Botany, St. Mary's College (Autonomous), Thoothukudi on 18th December, 2019 in the Botany Lecture Hall. Dr. C. Murugan, Scientist C, Botanical Survey of India, Coimbatore was the resource person. 36 students from II B.Sc Botany were benefited by this lecture

### **Fish Culture Technologies**

A guest lecture was arranged by the Department of Zoology on 21.01.2020 in the Star hall as a part of Star College Programme sponsored by DBT, New Delhi.. I, II and III UG students attended the meeting. Dr.K.Veerabhadran, Associate Professor, Department of Fisheries Extension, FCRI, Thoothukudi delivered lecture on Fish Culture Technologies

## **Water Conservation**

Elocution, Slogan Writing and Poster Making competitions were conducted on the topic “Water Conservation” on 22-01- 2020



## **Forest conservation**

On 24-01-2020 elocution, slogan writing and poster painting competitions were conducted on the topic Forest conservation.



## **Population Ecology**

Guest Lecture on “Population Ecology” sponsored by the Department of Biotechnology, Govt. of India, New Delhi under Star College Scheme Program was organized by Department of Botany, St. Mary’s College (Autonomous), Thoothukudi on 28<sup>th</sup> January, 2020 in the Star Hall. Dr. M. Glory, Head and Associate Professor of Botany were the resource person. All the First UG students from Department of Physics, Chemistry, Botany and Zoology were benefited by this lecture

## **Biology of mangroves and coral reefs**

Guest Lecture on Guest Lecture on Biology of mangroves and coral reefs sponsored by the Department of Biotechnology, Govt. of India, New Delhi under Star College Scheme Programme was organized by the Department of Botany, St. Mary’s College (Autonomous),

Criterion III

SSR Cycle V



Thoothukudi on 31st January, 2020 in the Botany Lecture Hall. Dr. T. Ramanathan, Associate Professor, CAS Marine Biology, Annamalai University, Parangipettai was the resource person. 44 students from III B.Sc. were benefited from this lecture

### **Intradepartmental Panel Discussion on Future Scope of Artificial Intelligence and Sustainable Development**

The Department of Botany organised a guest lecture on “Intradepartmental Panel Discussion on Future Scope of Artificial Intelligence and Sustainable Development” in the Botany Lecture Hall, on 25.02.2020. Mr. Naveen K Prathapaneni, Solution Architect, IBM Watson & Cloud, Hyderabad delivered the lecture

### **Laws of Thermodynamics and Bioenergetics**

A Guest Lecture on Laws of Thermodynamics and Bioenergetics was organized by the Department of Botany for the III UG (39) students in the Botany Lecture Hall, sponsored by DBT, Star College Scheme, New Delhi on 2nd March 2020. Dr. T. Peter Amaladhas, Associate Professor of Chemistry, V.O.C. College, Thoothukudi was the resource person

### **Tree Plantation**

To emphasize the need of tree plantation, many saplings were planted in the college under the guidance of the District Revenue Officer and the principal of the college.



### **Cleanliness Drives**

Cleanliness drives were conducted in and around Punnaikayal and Sernthapoomangalam through mass cleaning at the beach, schools and streets. Rallies were conducted to create awareness on cancer and healthy living, the hazards of plastic usage and need to avoid it. A general medical camp was organized with Sundaram Arulraj Hospital,

Thoothukudi. The villagers were given free medical check up and medicines. Free Eye check up camp was organized with the help of Vasan Eye Care, Thoothukudi. A special medical camp was arranged for the people of Seranthapoomangalam with the assistance of Primary Health Centre, Authoor. These camps proved beneficial to the public. In addition to these rallies and medical camps, invited talks and lecture were given to the people on healthy living



### **Community Development Programme**

The rural development programme CDP of St.Mary's College is engaged for the empowerment of women. Our institution has been registered as a participating Institute in Unnat Bharat Abhiyan. It concentrates on the social and economic upliftment of the rural people in the adopted villages - Korampallam, Maravanmadam, Palayakayal, Servaikaranmadam and Tharuvaikulam. About 928 students and 22 faculty actively involve themselves in this scheme. Key progressive works undertaken in the rural areas:

At Anthoniarpuram, in Korampallam village, with a population of 1190 people we offered training in palm leaf craft and product making to the women. We have also helped them to start units of their own.

In Servaikaranmadam, we provided tailoring machines and started three months training programme. This has given them confidence to meet their financial requirements.



In Tharuvaikulam we oriented the people on roof and home gardening, and also created provisions in 10 houses. It was heartening to note that they have cultivated and reaped the benefits of their first harvest.

In Palayakayal we initiated the programmes on water harvesting, roof garden making, cloth bag distribution and spoken English training to village students.

Pond cleaning in Tharuvaikulam and environment cleaning in other areas were undertaken.

All these productive undertakings were done after convening the Grama sabha meeting and consulting with the members, about the needs of the village people.

Apart from these we offered 66 total number of programmes in the past one year.

Preparation of Handworks using Waste Materials, paper bag making, soap making and Vermicompost

Providing psycho-social inputs with therapies like Laughter, Clapping and Body Movement Therapies,

Health awareness on the importance of Medicinal Plants and eradication of Dengue.

Academic enlightenment given to young students by tutoring, spoken English and eradicating Math Phobia

Eco-consciousness promoted with Water Conservation, Area Cleaning, Seeds Distribution, Ban plastic awareness campaigns and Digital Awareness programmes.

These progressive measures empower the rural poor, particularly women by enhancing their skills to have an earning of their own. We try to empower families and thereby villages as a whole socially and economically by giving ample importance to environmental conservation. We act as a bridge by bringing the needs of village people to the authorities, particularly the District Collector. Students disseminate their skills to the deserving people for bringing a social change, to empower the needy, to enhance their skills and to make them earn for themselves so as to make them economically independent.

## ➤ 2018-2019

### **Wild Life Reserves and Conservation - Challenges**

On 25<sup>th</sup> June 2018, Department of Zoology organized a special lecture. Dr. Antony Johnson, Scientist and Head of the Department of Habitat Ecology, Govt. of India, Dehradun delivered a lecture on “Wild Life Reserves and Conservation - Challenges”

### **Plant Ecology**

The Second Botany association meeting was conducted on 20<sup>th</sup> August 2018 in the Botany Lecture Hall. Rev. Fr. Dr. Rayappa A. Kasi gave a guest lecture on Plant Relationship and Adaptation.

### **Adaptations of various organisms towards the environment and its effect on Evolution**

Department of Zoology conducted an Association meeting on 21<sup>st</sup> August 2018, Rev. Fr. Rayappa A. Kasi, an eminent ecotheologist addressed the students on “Adaptations of various organisms towards the environment and its effect on Evolution”.

### **Microplastics in Coastal Sediments and Identification of Heavy Metals in Fishes**

Department of Physics organized an Association meeting on 1<sup>st</sup> October 2018. Dr. S. Selvam, Assistant Professor of Geology, V. O. Chidambaram College, Thoothukudi delivered a talk on the topic “Microplastics in Coastal Sediments and Identification of Heavy Metals in Fishes

### **Adverse Effects of Plastics**

On 10<sup>th</sup> Dec. 2018, NSS with Eco-feminine cell organized an awareness programme on the “Adverse Effects of Plastics”. Dr. John Prince, Associate Professor of Physics, V.O.C. College, Thoothukudi, highlighted the hazards of plastic to human beings as well as to the environment.



### **Rally – Free from Plastics**

In an effort to create awareness and insist the need to keep the environment clean and free from plastic, a rally was organized on 13<sup>th</sup> December 2018. The rally was flagged off by



Dr. Sr.A.S.J. Lucia Rose, Principal of St. Mary's College. The rally began from the college via Mattakadai and ended in front of municipal office with the swachh Bharat oath

### **Gratitude to Nature - Pongal day**

Pongal day was celebrated on 13<sup>th</sup> January 2019 in the college premises. The chief guests were Mr. Rajendra Boopathy, Head of Korampallam River Farmers Union and Mrs. Rajathi, Founder of Morning Star Social and Educational Society. Traditional Games like Uri adithal, Hop Race, Rangoli, Hide and Seek, Kaai Maraithal were conducted for the students, teaching and non-teaching staff. The students performed traditional dances like Karagam, Oyilatam, Parai, Silambatam, and Gummi



*Lucia Rose*  
**Principal**  
St. Mary's College (Autonomous)  
Thoothukudi-628 001.