







ANNUAL REPORT 2021-2022

POST GRADUATE DEPARTMENT OF BOTANY ST. STEPHEN'S COLLEGE, PATHANAPURAM

ANNUAL ACTIVITY REPORT- 2021- 2022

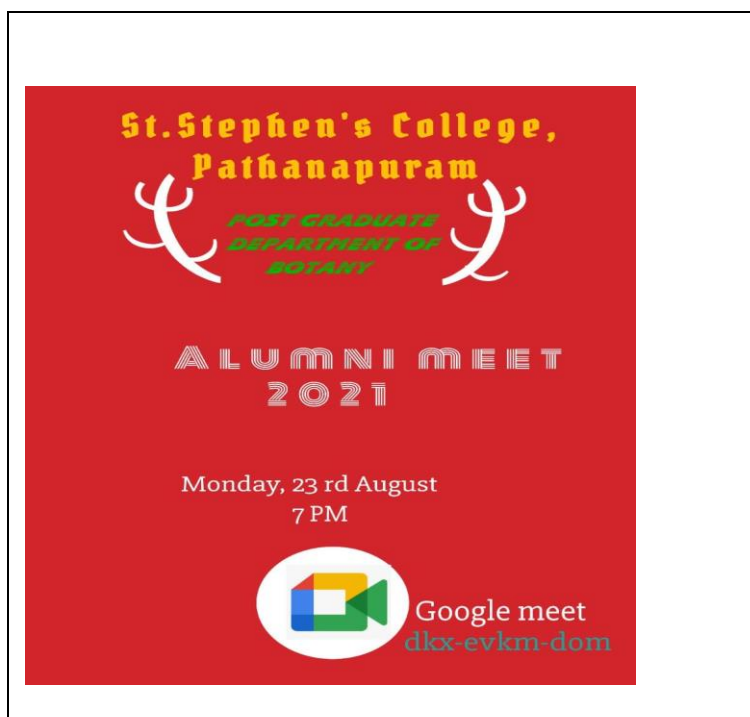
WORLD ENVIRONMENT DAY CELEBRATION (05th JUNE 2021)

Department organized World Environment Day on 5th June 2021. Main aim of the programme was to give awareness to the students and native people about the ecological importance and conservation of their own environment, Dr. Divya V. Nair, Himachal Pradesh Central University and Dr. K. P. Laladhas Principal were acted as recourse persons. The programme was organized in online mode. Students of Post Graduate, Under graduate, faculties from our and other department, were attended the meeting.

 ST. STEPHEN'S COLLEGE Affiliated to the University of Kerala PATHANAPURAM, KOLLAM DISTRICT, KERALA-689 695 Under the management of Mount Tabor Dayara, Malankara Orthodox Syrian Church Re-accredited by NAAC at B grade with CGPA 2.80	POST GRADUATE DEPARTMENT OF BOTANY WORLD ENVIRONMENT DAY-2021 NATIONAL WEBINAR ON DNA METABARCODING -A NEW APPROACH FOR HIGH THROUGHPUT PLANT & ANIMAL IDENTIFICATION	 Dr. DIVYA V. NAIR Assistant Professor Department of Plant Sciences Central University of Himachal Pradesh Dist. Kangra, Himachal Pradesh - 176206	Sir/Madam, The Post Graduate Department of Botany is organizing a National Webinar on 'DNA Metabarcoding -A new approach for high throughput plant & animal identification' on 05 June 2021 at 10.00 AM. We cordially invite your esteemed presence. Fr. (Dr.) Roy John Head, Dept. of Botany Dr. K. P. Laladhas Principal Dr. Shibu P. Varghese Convener
05 JUNE 2021 10.00 AM at GOOGLE MEET Webinar Link : https://meet.google.com/zop-onys-byg Dial-in: (US) +1 435-612-2024 PIN: 878 838 521#			Co-ordinators Fr. (Dr.) Roy John, Assistant Professor and Head Dr. Praveen Dhar T., Assistant Professor Ms. Chinju Merin Abraham, Assistant Professor Ms. Jisa Sabu, Ad-hoc lecturer. About the Webinar Metabarcoding is the barcoding of DNA/RNA (or cDNA/cRNA) in a manner that allows for the simultaneous identification of many taxa within the same sample. The main difference between barcoding and metabarcoding is that metabarcoding does not focus on one specific organism, but instead aims to determine species composition within a sample. Applications of DNA barcoding include identification of new species, safety assessment of food, identification and assessment of cryptic species, detection of alien species, identification of endangered and threatened species, linking egg and larval stages to adult species, securing intellectual property rights for bioresources, framing global management plans for conservation strategies and elucidate feeding niches. DNA barcode markers can be applied to address basic questions in systematics, ecology, evolutionary biology and conservation, including community assembly, species interaction networks, taxonomic discovery, and assessing priority areas for environmental protection. Fr. (Dr.) Roy John (Assistant Professor & Head, Dept. of Botany) sscbotany1982@gmail.com Mob. 9526061295
			  

ALUMNI MEET (22nd June 2021 and 23rd August 2021)

'Stephanian Botany Alumni' meet was conducted on 22nd June 2021 and 23rd August 2021 consequently. This meeting is a memorable occasion for teachers and students. Former students and teachers are actively participated in this event and share their views and ideas about institution. Alumnus shared their past experiences in the college. Office bearers for the next year were also elected.



PTA MEETING (11th July 2021, 22nd December 2021, 21st February 2022 and 07th March 2022)

Parent Teachers meeting has been conducted on 11th July 2021 for the fifth semester Botany students, 22nd December 2021 for first B.Sc. Botany semester students, 21st February 2022 for first Semester M.Sc. Botany and 07th March 2022 for second semester M.S. Botany students. After the formal programme of the meeting, an interactive session has been arranged where, all the teachers were present and parents get an opportunity to discuss about their child and their problems. It is very helpful to the parents as well as teachers to know more about the students. Each parent gets a chance to talk individually with each teacher of the department.



VERY REV. APHREM RAMBAN MEMORIAL TALK AND INAUGURATION OF NEW POST GRADUATE COURSE M. Sc. BOTANY INAUGURATION (26th July 2021)

The Department of Botany, St. Stephen's College organized 19th very Rev. Aphrem Ramban Memorial Lecture on 26th July 2021, in association with all other Departments of our college. This lecture was conducted in each and every year in memory of very Rev. Aphrem Ramban (Oommen Achen), former Principal and Head of the Department of Botany of this College. This Year's Chief Guest was HG. Dr. Josph Mar Dionysius (Metropolitan of Culcutta Orthodox Diocese) he led classes about "Nature as a power". The newly allotted new generation Post Graduate Course by Government of Kerala and renovated M.Sc. Botany block was inaugurated K.B. Ganesh Kumar Member Legislative Assembly, Pathanapuram. The programme was presided by Very. Rev. M.M. Samuel Kutty Remban, Manager, felicitated by Rev. Fr. Benjamin Mathen, Secretary, Mount Tabore Diara Institutions, Fr. N. J. Koshy, Local Manager, Dr. K.P. Laladhas, Principal, Fr. Dr. Roy John, Head Department of Botany, staff, students. were also attended the programme.





ONAM CELEBRATION (18th August 2021)

The Department organized Onam celebration on 18th August 2021 at 7 P.M. for making unity and equality among students. The programme was organized in online mode. The programme such as Onam songs, Navuvazhagumo, Ona Thallu, Sundarikku pottu thodil also were organized.



INTERNSHIP AND MEMORANDUM OF UNDERSTANDING WITH SANGROSE (26th DECEMBER to 31st DECEMBER 2022)

As part of the curriculum insisted by new generation course M.Sc Botany (Ethnobotany and Ehnopharmacology) five days internship is essential. In order to fulfill this the M.Sc students of our department are undergone training in sangrose laboratories Mavelikkara, Alapuzh District, Kerala the world's largest manufacture of clofazimine api and pharmaceutical manufacturing company in Kerala from 26th December 2022 to 31st December 2022. The department also signed a Memorandum of Understanding with sangrose laboratories for academic, research and vocational purposes.



ONLINE - LECTURE SERIES ON PHYTO CHEMISTRY (27th September 2021 and 2nd October 2021)

Post graduate department of botany organized a lecture series on phytochemistry and related issues for the M.Sc. Students. The programme was conducted on 27th September 2021 at 11.30 AM and 2nd October 2021 at 11.00 AM., Prof. Mammen Daniel , international acclaimed academician, former Dean Faculty of Science, former Head of the Department of Botany of Maharaja Sayajirao University Baroda acted as the resource person. Faculties and students attended the programme.



ENERGY CONSERVATION RALLY AND WEBINAR ON ‘GO TO ELECTRIC’ CAMPAIGN (13th December 2021)

Post Graduate Department of Botany and Energy Management Centre, Kerala Government in Association with NSS Unit, Biodiversity Club and Research and Development Cell of St.Stephen’s College, Pathanapuram organized Energy conservation rally, Webinar, Signature Campaign, Energy conservation pledge on the theme “**Go Electric**” was conducted on December 2021 as part of “**URJA KIRAN- 2020-2022**”. The programme was inaugurated by Smt. Anandavalli, President Pathanapuram, Mr. Thulasi, Pathanapuram Grama Panchayath President presided the function. Block Panchayath President. Sri. Farook Muhammed, Ward member Pathanapuram inaugurated the Energy Conservation rally. Energy Conservation Rally begins at 10.30 AM from Pathanapuram Town Panchayath complex and ends Kallumkadavu, Pathanapuram at 11.30 AM. The energy conservation pledge was taken by all participants. The signature campaign related to energy conservation was inaugurated by Sri. Thulasi, Pathanapuram Grama Panchayath President. Students, NSS Volunteers, publics, local body representatives were participated in the programme. Fr.(Dr.) Roy John(HoD of Botany), Dr. Shibu P. Varghese (Assistant Professor of Botany) Ms. Chinju Merine Abraham(Assistant Professor of Botany) Dr. Govind (Lecturer- Adhoc) were felicitated the programme. Dr. Praveen Dhar T (Convener and Assistant Professor of Botany) delivered vote of thanks to the programme.

In the evening at 7.00 PM a state level webinar on “GO ELECTRIC” through Google Meet was also conducted. The function began with a prayer by Mr. Akhinesh, I Year BSc. Botany student. Dr. Praveen Dhar T (Assistant Professor and Convener)welcomed the gathering. Fr. (Dr) Roy John , Head Department of Botany presided over the function. The programme was inaugurated by **Dr.K.P. Laladhas**, Principal. **Dr. Biju C** (Assistant Professor of Botany, Sree Narayana College, Varkala, acted as the resource person. He explained the theme beyond energy conservation and point out the significance of :Go Electric Campaign” Dr. Shibu P. Varghese (Assistant Professor of Botany) Ms. Asha (Lecturer- Adhoc) and Dr. Govind (Lecturer- Adhoc) were felicitated the programme. Students, NSS Volunteers, publics, local body representatives were attended the webinar. Ms. Chinju Merine Abraham (Assistant Professor of Botany) delivered vote of thanks to the programme.



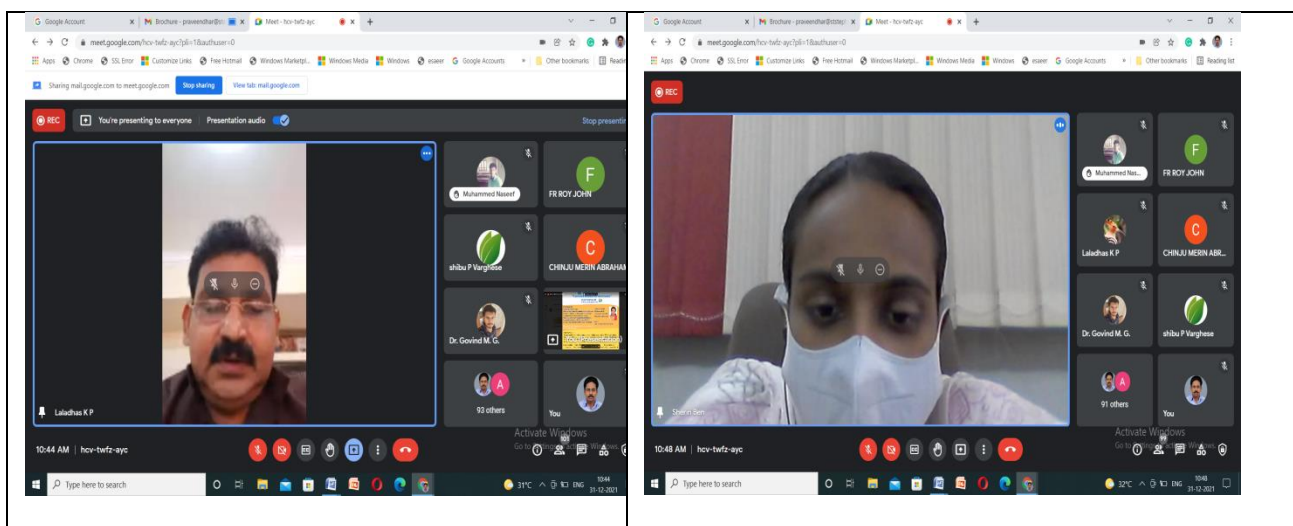
CHRISTMAS CELEBRATION (21st December 2021)

Department of Botany celebrated Christmas celebration with humility and enthusiasm on 21st December 2021. The students arranged different programmes such as christmas carol, songs, christmas friend selection etc. The programme was inaugurated by Rev. Fr. Roy John (HoD- Botany) by cutting christmas cake.



WEBINAR ON CURRENT RESEARCH METHODS (31st DECEMBER 2021)

Post graduate department of botany, in collaboration with IQAC, Kerala State Council for Science, Technology and Environment, Research and Development Cell (SSC) organized an online webinar on “Current Research Methods” on 31st December 2021. The programme was welcomed by Ms. Chinju Merine Abraham, Coordinator of the programme and presided by Fr. Dr. Roy John, Head, Department of Botany and inaugurated by Dr. K.P. Laladhas, Principal. The key note address was delivered by Dr. Sherin B.M. (Scientist B, KSCSTE) Dr. Shibu P. Varghese, Dr. Praveen Dhar T, Assistant Professors, Ms. Asha Kumary, Dr. Govind M. G., Ms. Jinu George, Guest Lecturers, Department of Botany were coordinated the programme. Staff, students were also attended the programme.



EXTENSION ACTIVITY MUSHROOM CULTIVATION (17th January 2022 and 16th April

2022)

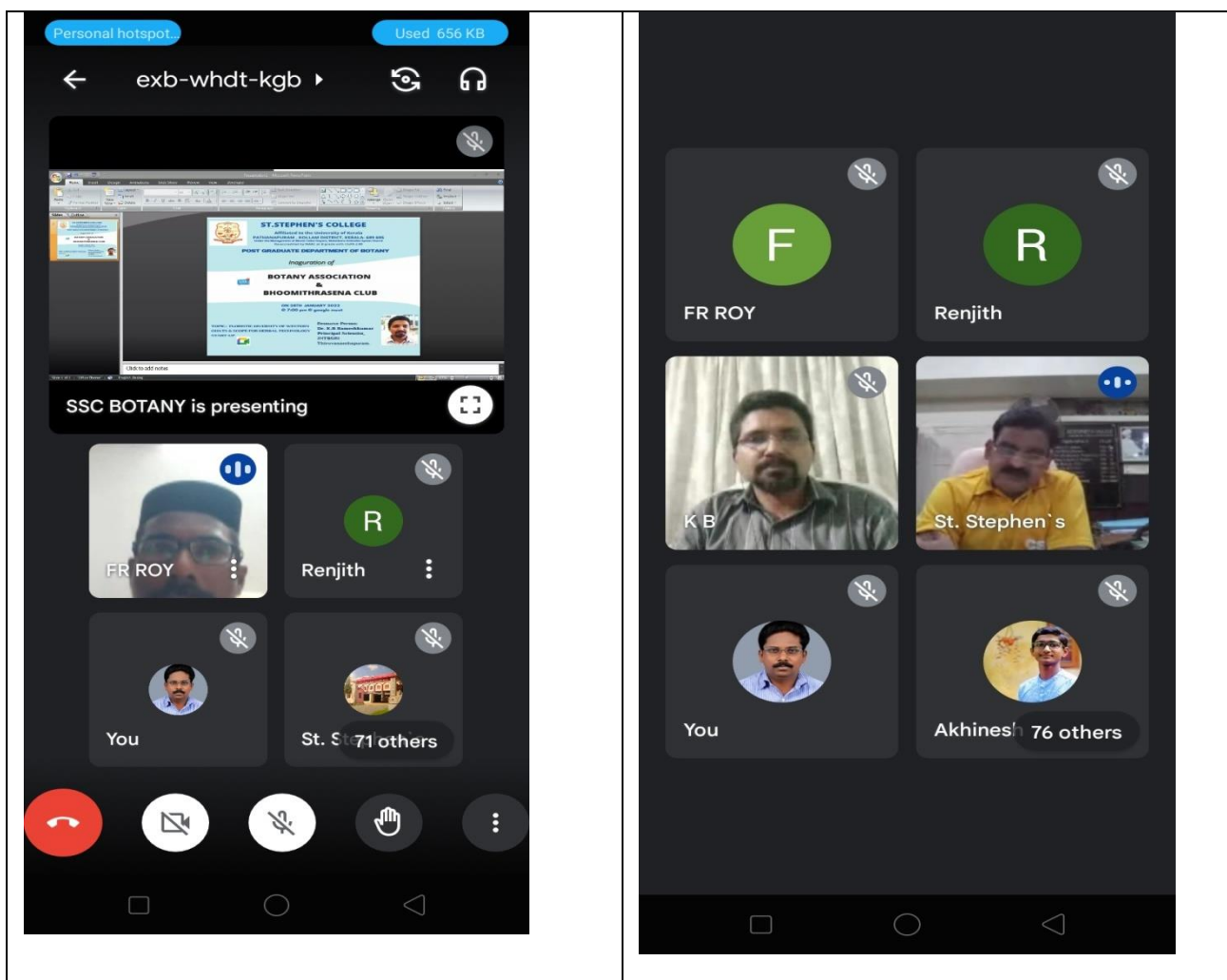
As a part of community extension activity, the Department of Botany, St. Stephen's College, Pathanapuram conducted hands-on training programme on mushroom cultivation, on 17th January 2022 and 16th April 2022 at Grama Sabha Building Maloor. The programme was intended for the socio-economic upliftment of rural community, especially for women and other marginalized people of rural origin. Mr. Pradeep Kumar, Kripa Mushroom, Kulakkada was the resource person. A number of lignocellulosic substances like paddy straw, sugarcane bagasse, water hyacinth, banana pseudostem were used for the production of mushrooms. Production of edible mushroom is a positive step towards not only minimising the environmental hazards which will lead to considerable re-cycling of these wastes, but also convert directly the lignocellulosic wastes to human food which may be an alternate to meet the continuously rising food demand. A total of 43 participants were joined in the training class including students, housemaids, laymen etc. of various sectors. They were actively engaged in the hands training programme of mushroom cultivation and realize the various steps of spawn production, bed making, seeding, mushroom shed making, pest management, post-harvest maintenance, nutraceuticals and marketing.



INAUGURATION OF BOTANY ASSOCIATION AND BHOOMITRASENA CLUB (28th January , 2022)

Department of Botany organized a one-day seminar in association with Botany association

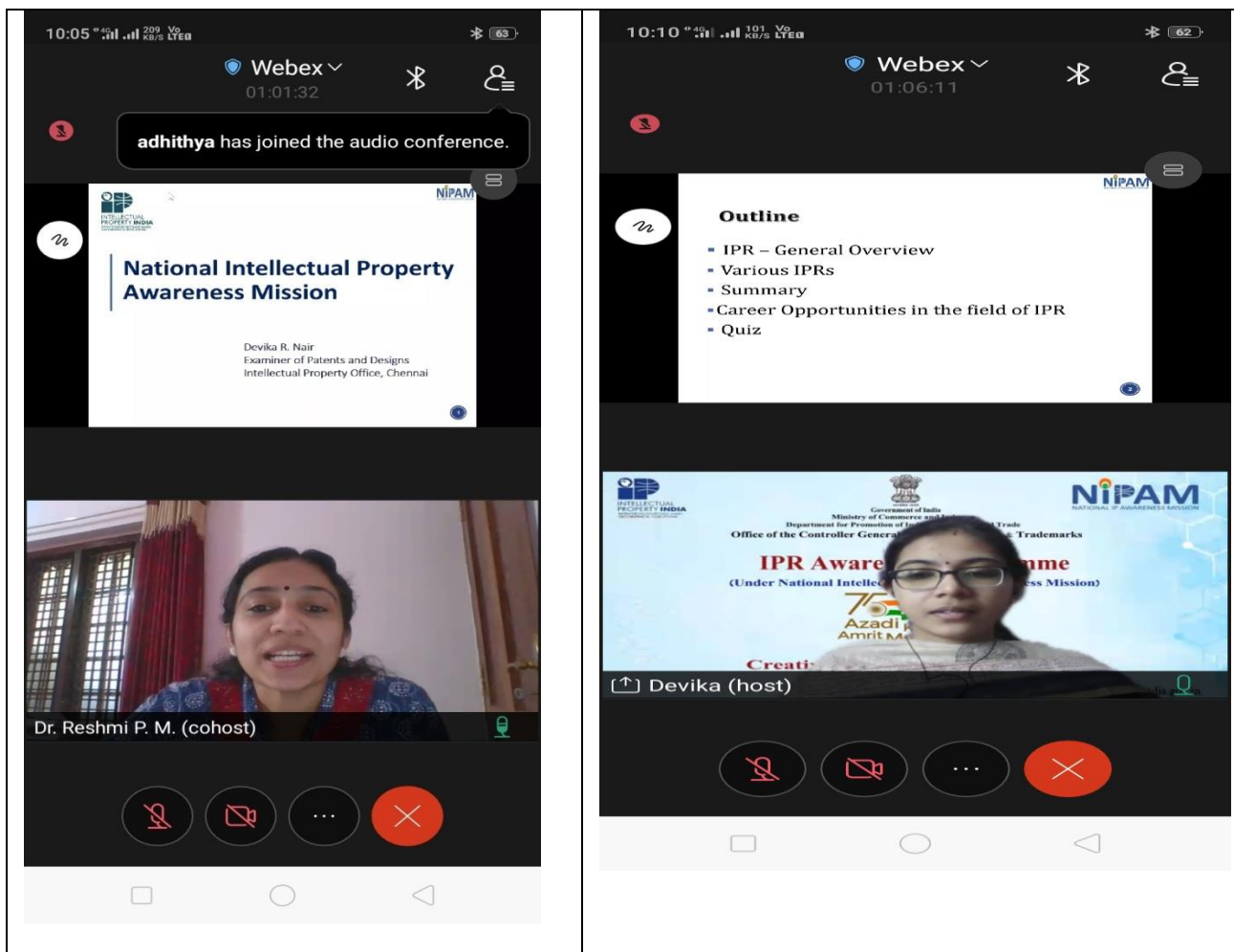
inauguration and fresher's day welcome on 28th January 2022 in online mode. Dr.K.B. Ramesh Kumar the chief guest of the event. He delivered a Key-note lecture about "Floristic Diversity of Western Ghats and Scope for Herbal Technology start-up" ".Dr.KP Laladhas, Principal, Dr.Fr.RoyJohn, Head, Dept. of Botany, Dr. Shibu P. Varghese, Dr. Praveen Dhar T., and Ms. Chinju Merin Abraham, Assistant Professors, Dept. of Botany, Ms. Asha Kumary, Dr. Govind M. G.; Ms. Jinu George, Guest Lecturers, Department of Botany were coordinated and delivered speeches. Faculty members from various Departments, Research Scholars, and students of undergraduate and post graduate were also participated.



AWARENESS ON INTELLECTUAL PROPERTY RIGHTS (IPR – 29TH JANUARY 2022)

A national level webinar on, "Intellectual Property Rights" in association with PIC-Kerala and Kerala State Council for Science, Technology and Environment was held on 29th January 2022 through online mode at 10 AM. The focal theme for the seminar included Patent for inventions,

Trademarks, Industrial designs and Geographical indications, Copyrights etc. Ms. Devika R. Nair (Examiner of Patents and Design, Patent Office Chennai) acted as resource person. Fr. Dr. Roy John, Head of the Department of Botany delivered vote of thanks, faculties, students were attended the programme.



NATIONAL WEBINAR ON WETLAND DAY CONSERVATION (2nd February 2022)

Post Graduate Department of Botany, St. Stephen's College, Pathanapuram organized World Wetland Day celebration on 2nd February 2022 through online mode at 7.00 P.M. The programme intends to provide awareness to the students, teachers and other participants about the need and importance to conserve the nature and natural resources. Keeping maximum participation from local people, we have made wide publicity through newspapers and other media. Fr. (Dr.) Roy John, Head, Department of Botany presided over the function and Dr. K.P. Laladhas, Principal delivered key note address. Dr. J.G Ray, Professor of Bioscience, Mahathma Gandhi University acted as resource person. Dr. Shibu P. Varghese, Dr. Praveen Dhar T., Ms.

Chinju Merin Abraham, Assistant Professors, Ms. Asha Kumary, Dr. Govind M. G.; Ms. Jinu George, Guest Lecturers, Department of Botany were coordinated the programme.



STUDY TOUR and VISIT (22nd March 2022 to 25th March 2022)

As part of curriculum, a study tour was conducted by the Department of Botany for B.Sc Botany students to various places of biological and taxonomic interest from 22nd March 2022 to 25th March 2022. The tour is exclusively for study purposes and visits various places such as Ooty and Wayanad. Students collected and identified plants belonging to various taxonomic levels. They undertook herbarium techniques for the preservation of interested taxa. A total of 31 students and two faculties were attended. An one day visit to Jawaharlal Nehru Tropical Botanical and Research institute was also organized to M.Sc and B.Sc students to give exposure to diversity of flora.



ENVIRONMENT MANAGEMNET TRAINING PROGRAMME (EMT-2022 on 14th, 16th and 18th March 2022)

Department of Botany, St.Stephen's College, Pathanapuram in association and funding with Directorate of Environment and Climate Change (DoECC), Govt. of Kerala organized ENVIRONMENT MANAGEMNET TRAINING PROGRAMME (EMT-2022), on 14th, 16th and 18th March 2022 at the College Seminar Hall. Main aim of the program was to give awareness to the students, teachers and other participants about the need and importance to conserve the nature and Environment. Keeping maximum participation from local people, we have made wide publicity through media. The meeting was inaugurated by Very Rev. Dr. NJ Koshy Ramban, Head, Department of Mathematics & Governing Body Member, Mount Tabor institutions, Fr.Dr. Roy John, Head, Department of Botany, Dr. Shibu P. Varghese, Convener of Environment Management Training (EMT- 2022), Dr. Praveen Dhar T, Assistant Professor in Botany, Ms. Chinju Merine Abraham, Assistant Professor in Botany, Ms. Asha Kumary, Dr. Govind M. G.; Ms. Jinu George, Guest Lecturers, Department of Botany were coordinated the programme. On 14th March 2022 the class was handled by Dr. Abraham A, Assistant Professor, Department of Physics, Christian College, Chengannur on the the topic 'Energy Management and

Conservation'. On 16th March 2022 the second day, training programme was on the topic 'Solid Waste Management' was conducted. Dr. Brilliant Rajan, Assistant Professor and Head, Department of Environment Science, St. Johns College, Anchal. On 18th March 2022 the topic was 'Biodiversity conservation and Management' and Dr. Mathew Dan, Senior Scientist and Head, Division of Plant Genetic Resource Division, JNTBGRI, Palode acted as resource person. Faculty members, teaching and non-teaching staff, students and neighboring residents were also present during the programme and actively participated in the festivity. Different clubs of the college like NSS, NCC, Nature club, Science forum etc. were actively took part in the seminar



CHIEF MINISTER'S PRATHIBA SCHOLARSHIP (2021-2022)

Prathibha Scholarship 2022 is for the students of Kerala state, students who are native of Kerala state and are financially weak, all of them can apply for it. This scholarship is under the SPEED (Student Program for Excellence Experimental Design) scheme. This scholarship is mainly for undergraduate and postgraduate. Ms. Praveena M.Sc. student, she completed her B.Sc during the academic session 2018-2021, for attaining academic excellence achieved this

meritorious award from Kerala Chief Minister Sri. Pinarayi Vijayan, Kerala Chief Minister.

