

**ST.PAUL'S COLLEGE,
KALAMASSERY**

**DEPARTMENT OF CHEMISTRY (SF)
ANNUAL REPORT**

2024-25

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SEMINARS/WEBINARS/WORKSHOPS

International Seminar on "Advances in Applied and Chemical Science 2024"

The International Seminar on "Advances in Applied and Chemical Science 2024" was jointly organized by the Department of Chemistry, aided and SF, in collaboration with the College Development Council on October 24th and 25th, 2024. The event aimed to bring together experts, researchers, academicians, and industry professionals to delve into the latest advancements, research, and innovations in the realm of material science and sustainability. The seminar was inaugurated with great enthusiasm, and the keynote address was delivered by Prof. (Dr.) M Junaid Bushiri, Vice-Chancellor, Cochin University of Science and Technology, Ernakulam. Eminent personalities from various research institutes, and National Taiwan University of Science and Technology, Taiwan, graced the event with their presence and expertise. The sessions were meticulously designed to cover a wide range of topics, including the latest research findings, technological advancements, and sustainable practices in materials science. The diverse backgrounds of the speakers contributed to a comprehensive exploration of the subject matter. As part of the seminar, both offline and online oral and e-poster presentations were conducted. This hybrid approach allowed for a flexible and inclusive participation model. The International Seminar on "Advances in Applied and Chemical Science 2024" was a resounding success and witnessed active participation of almost 200 participants and 50 paper/e-poster presentations. The success of this seminar not only reflects the commitment of the organizing bodies but also the collective dedication of participants, speakers, and sponsors toward advancing the frontiers of knowledge for a more sustainable future.





St. Paul's College, Kalamassery
Archdiocese of Verapoly
Affiliated to Mahatma Gandhi University, Kottayam
Reaccredited with NAAC 'A' Grade
ISO 9001:2015 Certified by TUV Rheinland

International Seminar
ADVANCES IN APPLIED AND CHEMICAL SCIENCE 2024
AACs 2024
ON 24th & 25th OCTOBER 2024

Organized by
DEPARTMENT OF CHEMISTRY
(Aided & SF)
ST. PAUL'S COLLEGE, KALAMASSERY

In association with
COLLEGE DEVELOPMENT COUNCIL
MAHATMA GANDHI UNIVERSITY
KOTTAYAM

About the College
St. Paul's College, affiliated to Mahatma Gandhi University and Regulated by UGC is a prestigious arts and science college which functions under the Archdiocese of Verapoly. The college envisions to create a new enlightened generation which is socially committed, academically proficient, digitally updated and spiritually refined, so as to enable them to face the challenging needs of the changing times. The College started functioning from 13th July 1965. At present the college offers postgraduate courses in Economics, Physics, Mathematics, Chemistry, Commerce, English and Vocational studies.

The Department of Chemistry, which came into existence in 1965. The Chemistry Department became a fully-fledged department with the beginning of a degree course in Chemistry in the year 1969. Post graduate course in Pure Chemistry started in 2003.

About the Seminar
International Seminar on "ADVANCES IN APPLIED AND CHEMICAL SCIENCE 2024" aim to bring together experts, researchers, academicians, and industry professionals to delve into the latest advancements, research, and innovations in the realm of materials science and sustainability.

Programme Schedule

Day 1 (24/10/2024)
9.00 am : Registration
9.30 am : Inauguration

11am-11.15 am : Tea break

11.15 am- 12.30 pm :

12.30 pm-1.30 pm : Lunch break

1.30 pm-2.30 pm :

2.30 pm-3.30 pm :

Poster and Oral Presentations

Day 2 (25/10/2024)
9.45 am-11.15 am

11.15 am -11.30 am : Tea break

11.30 am-1.00 pm :

1.00 pm -2.00 pm : Lunch break

2.00 pm-2.45 pm

2.45 pm-3.30 pm

3.30 pm-4.30 pm : Valedictory Function

CALL FOR PAPERS
Thrust Area

- Green synthesis of Materials
- Renewable and Bio-based Materials
- Nanotechnology for Sustainability
- Biodegradable Polymers
- Catalysis for Sustainability
- Energy Storage and Conversion Materials
- Sustainable Packaging Materials
- Waste Valorization
- Smart and Functional Materials
- Natural Product Chemistry
- Applied Chemistry
- Medicinal Chemistry

Oral & e-poster presentation
Hybrid mode of presentation available
(24 hrs only for 24th; 60th online 11:00am-5:00pm; 25th Physically Onsite)

Important dates:
Submission of abstract : October 15th
Confirmation of acceptance : October 17th
Submission of full paper : October 22nd
Accepted papers will be published in proceedings with an ISBN No. (APC Applicable)

Mail Abstracts & Papers to
chemistryseminar@stpauls.ac.in

Advisory Committee

Prof. Alexandre Vlad
Institute of Condensed Matter and Nanosciences,
Université Catholique de Louvain, Belgium

Prof. Vijaykumar Thakur
Bio-refining and Advanced Materials Research
Centre, Scotland's Rural College UK

Dr. Daniel M Mulvihill
School of Engineering, University of Glasgow,
Glasgow

Prof. Jou-hyeon-ahn
Gyeongang National University, Republic of
Korea

Prof. Libu Manjakkal
School of Computing and Engineering & Built
Environment, Edinburgh Napier University, UK

Dr. Muralaeddharan K R
NIO, Kochi

Dr. Saeil K Narayankutty
PSRT, CUSAT

Dr. Mangalam S Nair
CSIR-NIIST, Thiruvananthapuram

Contact Details
Dr. Sajin Francis K : 8075014396
Ms. Asha R : 8078500821

Organizing Committee

Fr. Varghese Vallyparambil, Manager
Fr. Raphael Kalluvettill, Asst. Manager
Prof. Pramada Ramachandran, Principal
Fr. Baiju Ben, Self Finance Co-ordinator
Dr. Tresa Sunitha George, H-0 (Convener)
Dr. Maria Augustine, Asst. Professor
Dr. Sajin Francis K, Asst. Professor (Co-ordinator)
Ms. Asha R, Asst. Professor (Co-ordinator)
Mr. Texin Joseph, Asst. Professor
Ms. Meera Jacob, Asst. Professor
Ms. Hency George, Asst. Professor
Ms. A R Roshni Das, Asst. Professor
Mr. Anus R, Asst. Professor
Mr. Fabin Jose
Ms. Christena Baby

FOR REGISTRATION
<https://www.stpauls.ac.in/department/chemistry/aacs2024>

Faculty: ₹ 750/-
Persons from Industry: ₹ 1000/-
Research Scholar: ₹ 500/-
Students: ₹ 200/-

Account Details
Name : Sajin Francis K
Bank : SBI Vazhakkala
A/c No : 67111025481
IFSC : SBIN0070809




Advances in Chemical and Applied Sciences (ACAS - 2025)

The Department of Chemistry (Aided and Self-Financing), St Pauls College, Kalamassery in collaboration with St. Teresa's College, Ernakulam and The Cochin College, Kochi, organized a National Seminar on "Advances in Chemical and Applied Sciences (ACAS - 2025)" on 14th March 2025. The event served as a dynamic platform to bring together academicians, researchers, and students to share and discuss recent advancements and innovations in the field of chemical and applied sciences.

The seminar commenced with a formal inaugural session, presided over by Dr. Meera Balachandran, Professor, Department of Chemical Engineering and Material Science, Amrita Vishwa Vidyapeetham, Coimbatore. Dr. Balachandran inaugurated the seminar and delivered the keynote address on the topic "Catalytic Processes for the Production of Platform Chemicals". Her insightful talk elaborated on the emerging catalytic routes in green chemistry and their significance in sustainable chemical manufacturing. The seminar featured invited talks by distinguished resource persons from premier institutions. Dr. Sindhu Mathai, Assistant Professor, Department of Applied Chemistry, Cochin University of Science and Technology (CUSAT), delivered a compelling presentation on "Palladium Catalysis in Organic Synthesis". She highlighted the versatile role of palladium complexes in cross-coupling reactions and their relevance in the synthesis of fine chemicals and pharmaceuticals. Dr. Shari P. S., Assistant Professor, PSRT, CUSAT, presented an informative session on "Polymer Nanocomposites", discussing the design, synthesis, and wide-ranging applications of polymer-based nanocomposite materials in modern industry and research. The seminar also included research presentations by faculty members and research scholars from various institutions. These presentations covered diverse and emerging areas of chemical sciences including materials chemistry, environmental chemistry, nanotechnology, and synthetic methodologies. The interactive sessions provided an excellent opportunity for knowledge exchange and academic networking.

The National Seminar on ACAS-2025 proved to be a highly enriching and intellectually stimulating event. It successfully fulfilled its objective of promoting collaboration, advancing knowledge, and fostering innovation in chemical and applied sciences. The Department of Chemistry expresses its sincere gratitude to the resource persons, partnering institutions, and all participants for making the event a grand success.

About the Seminar

National Seminar on Advances In Chemical And Applied Science-ACAS 2025 led By Eminent Women Resource Persons, This Seminar Celebrates Their **Passion, Innovation, And Leadership**, Inspiring Future Generations. Let Us Celebrate **Spirit Of Discovery** Reaffirming Our Commitment To **Empowering Women In Science**.



Dr. Meera Balachandran
Inauguration and Talk on
Engineering Catalytic Process for Sustainable Pproduction of Platform Chemicals
Dept. of Chemical Engineering and Materials Science
Amrita School of Engineering, Amrita Vishwa Vidyapeetham
Amrita Nagar, Coimbatore, Tamil Nadu



Dr. Sindhu Mathai
Palladium Catalysts in Organic Synthesis: Efficiency and Versatility
Assistant Professor
Department of Applied Chemistry
Cochin University of Science and Technology, Kalamassery



Dr. Shari P S
Polymer Nanocomposites
Assistant Professor
Department of Polymer Science and Rubber Technology
Cochin University of Science and Technology, Kalamassery

Organizing Committee

Fr. Varghese Vallyaparambil Manager	Prof. Pramada Ramachandran Principal
Fr. Raphael Kalluveetil Asst. Manager	Fr. Bajju Ben Self Finance Coordinator
Ms. Hency George HoD, Chemistry-SF, Convenor	Dr. Sajin Francis Assistant Professor
Dr. Tresa Sunitha George HoD, Chemistry-Aided	Ms. Ashna R Assistant Professor
Ms. Roshini Das Assistant Professor, Coordinator	Dr. Manju P Nair Assistant Professor
Mr. Texin Joseph Assistant Professor, Coordinator	Mr. Fabin Jose Lab Assistant
Dr. Maria Augustine Assistant Professor	Ms. Zenith Shibu Lab Assistant
Ms. Meera Jacob Assistant Professor	

Oral and e-Poster Presentations

[Link for Abstract Template](https://in.docworkspace.com/d/sUaz8LpAa7qub4G7g=en-US&sa=601,1131&ps=1&h=sseminar-paper-template-1.docx)
[https://in.docworkspace.com/d/sUaz8LpAa7qub4G7g=en-US&sa=601,1131&ps=1&h=sseminar-paper-template-1.docx](https://docs.google.com/forms/d/e/1FAIpQLSdu7w71zAIRUlkKn3WJSkuh5vRWoWohdKvHzafqBCh3lwTvw/viewform?usp=header)

REGISTRATION
Faculty : ₹ 500/-
Research Scholars : ₹ 200/-
Students : ₹ 100/-

[Link for Registration](https://docs.google.com/forms/d/e/1FAIpQLSdu7w71zAIRUlkKn3WJSkuh5vRWoWohdKvHzafqBCh3lwTvw/viewform?usp=header)
<https://docs.google.com/forms/d/e/1FAIpQLSdu7w71zAIRUlkKn3WJSkuh5vRWoWohdKvHzafqBCh3lwTvw/viewform?usp=header>

Account Details
Ms. A R Roshni Das (Co-ordinator)
Bank : SBI Elamakkara
Account No : 35084863211
IFSC Code : SBIN013223
G Pay No : 8075786519





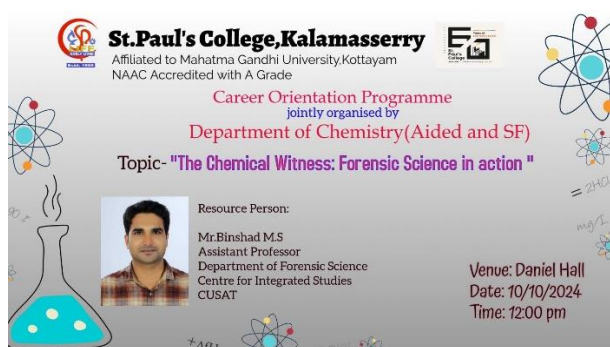

International webinar on "NEXT GENERATION HALIDE PEROVSKITE COMPOSITES FOR OPTOELECTRONIC AND PHOTOCATALYTIC SYSTEMS"

The International Seminar on " NEXT GENERATION HALIDE PEROVSKITE COMPOSITES FOR OPTOELECTRONIC AND PHOTOCATALYTIC SYSTEMS " was jointly organized by the Department of Chemistry, aided and SF on February 14, 2025. The event aimed to bring awareness among students about the latest advancements, research, and innovations in the realm of material science and sustainability. The success of this seminar not only reflects the commitment of the organizing bodies but also the collective dedication of participants toward advancing the frontiers of knowledge for a more sustainable future.



The Chemical Witness: Forensic Science in action

The Career Guidance Programme, titled *The Chemical Witness: Forensic Science in Action*, jointly organised by Department of Chemistry (Aided and SF) conducted by Mr. Binshad M.S, Assistant Professor, Forensic Science, Centre for Integrated Studies, CUSAT, offered an insightful exploration of forensic science and its role in criminal investigations. Mr. Binshad shared his expertise, highlighting how chemical analysis and forensic techniques are applied to solve crimes, emphasizing the interdisciplinary nature of the field that combines chemistry, biology, and law. Through real-life case studies and demonstrations, he illustrated the importance of precision, critical thinking, and attention to detail in forensic work. The session was informative and inspiring for participants considering careers in forensic science, law enforcement, or criminology.



St. Paul's College, Kalamassery
Affiliated to Mahatma Gandhi University, Kottayam
NAAC Accredited with A Grade

Department of Chemistry (Aided and SF)

Topic- "The Chemical Witness: Forensic Science in action"

Resource Person:
Mr. Binshad M.S
Assistant Professor
Department of Forensic Science
Centre for Integrated Studies
CUSAT

Venue: Daniel Hall
Date: 10/10/2024
Time: 12:00 pm

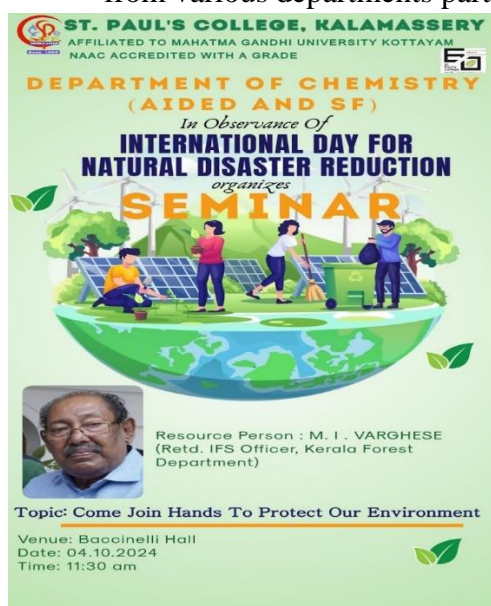


INTERNATIONAL DAY FOR NATURAL DISASTER REDUCTION SEMINAR on “COME JOIN HANDS TO PROTECT OUR ENVIRONMENT

Natural hazards such as earthquakes, volcanic eruptions or tsunamis can trigger disasters when coupled with vulnerability and inadequate measures to mitigate their impacts. These disasters affect millions of people worldwide each year. However, the impact of natural hazards can be reduced through proactive, systematic efforts to analyse and decrease the causal factors of disasters. The International Day for Disaster Risk Reduction, held each year on 13 October, celebrates how people and communities around the world are reducing their exposure to natural hazards.

This year's theme for the day is “Empowering the next generation for a resilient future”. The International Day for Disaster Risk Reduction serves as a reminder of what remains to be done to reduce disaster risk. Each year, the theme aligns with the Sendai Framework to prevent and reduce losses in lives, livelihoods, economies and basic infrastructure. This year's theme focuses on the role of education to protect and empower youth for a disaster-free future.

As part of International Day for Natural Disaster Reduction, Department of Chemistry organized a seminar on the topic “Come Join Hands to Protect our Environment”. The resource person for the session was M. I. Varghese, Retd. IFS Officer, Kerala Forest Department. He donated a book written by him about the laws of environment to Dr. Binu P.C., Librarian of St. Paul's College, Kalamassery. Students from various departments participated in this session.



ST. PAUL'S COLLEGE, KALAMASSERY
AFFILIATED TO MAHATMA GANDHI UNIVERSITY KOTTAYAM
NAAC ACCREDITED WITH A GRADE

DEPARTMENT OF CHEMISTRY
(AIDED AND SF)

In Observance Of
**INTERNATIONAL DAY FOR
NATURAL DISASTER REDUCTION**
organizes
SEMINAR



Resource Person : M. I. VARGHESE
(Retd. IFS Officer, Kerala Forest
Department)

Topic: Come Join Hands To Protect Our Environment

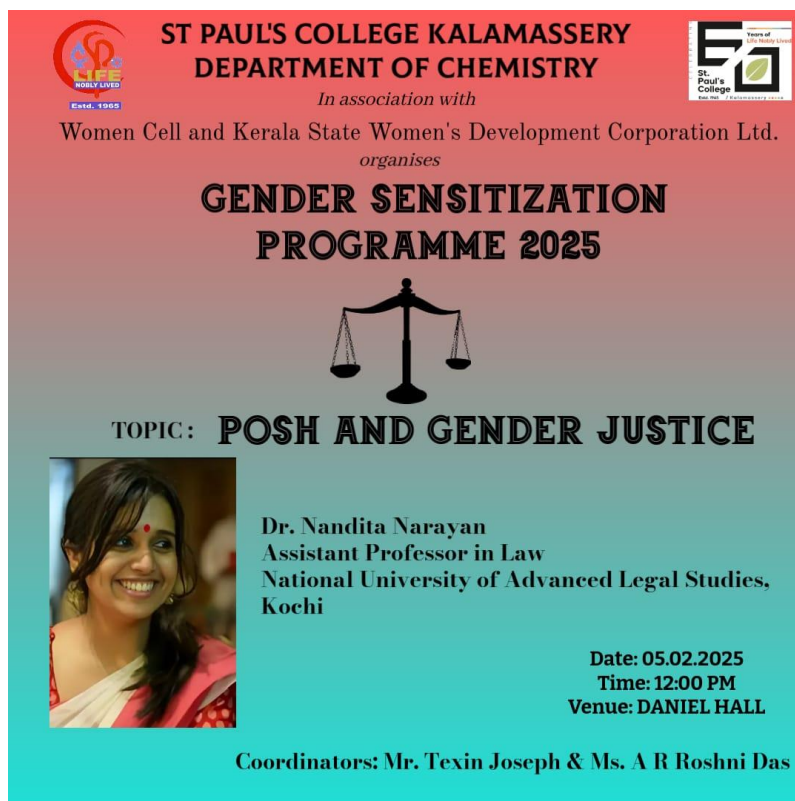
Venue: Baccinelli Hall
Date: 04.10.2024
Time: 11:30 am



Report on Gender Sensitisation Programme

On 5th February 2025, the Department of Chemistry, supported by both its aided and self-financing divisions, held a crucial session on Gender Sensitisation. Featuring Dr. Nanditha Narayanan from the National University of Advanced Legal Studies (NUALS), Kochi, the session aimed to elevate students' understanding of gender dynamics, legal rights, and equitable interpersonal behavior. Dr. Nanditha Narayanan is an Assistant Professor of Law at NUALS, Kochi, with specialization in gender law, human rights, and legal frameworks surrounding equality and justice.


The speaker navigated a well-structured discussion on gender awareness and inclusivity, intertwining legal principles with everyday practicalities. Beginning with an exploration of gender stereotypes and unconscious biases, she engaged participants through real-world case studies and interactive dialogue. She drew on legal contexts to explain rights, protections against discrimination, and recourse mechanisms. Emphasis was placed on empathy, respectful communication, and understanding power dynamics—both within academic environments and professional settings. The session equipped students with actionable skills in developing inclusive habits and respecting diverse identities. The session saw active interaction from both UG and PG students, who participated through Q&A, small-group discussions, and personal reflections. This exchange facilitated deeper understanding and brought forward key issues such as handling gender-based microaggressions, affirming pronoun usage, and cultivating safe spaces.




The poster is for a Gender Sensitization Programme held at St. Paul's College, Kalamassery, Department of Chemistry. It is organized in association with the Women Cell and Kerala State Women's Development Corporation Ltd. The topic is 'POSH AND GENDER JUSTICE'. The speaker is Dr. Nandita Narayan, Assistant Professor in Law at NUALS, Kochi. The event is scheduled for 05.02.2025 at 12:00 PM in Daniel Hall. The coordinators are Mr. Texin Joseph and Ms. A R Roshni Das. The poster features logos for St. Paul's College (Est. 1965) and the 50th Anniversary of the Department of Chemistry. A central image shows a woman in a pink and white saree, and a scale of justice is depicted above the topic text.

ST PAUL'S COLLEGE KALAMASSERY
DEPARTMENT OF CHEMISTRY
In association with
Women Cell and Kerala State Women's Development Corporation Ltd.
organises

**GENDER SENSITIZATION
PROGRAMME 2025**



TOPIC: POSH AND GENDER JUSTICE


Dr. Nandita Narayan
Assistant Professor in Law
National University of Advanced Legal Studies,
Kochi

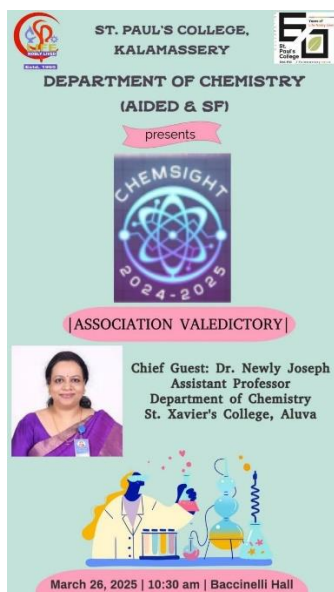
Date: 05.02.2025
Time: 12:00 PM
Venue: DANIEL HALL

Coordinators: Mr. Texin Joseph & Ms. A R Roshni Das



Emerging Technologies in Science

The Department of Chemistry, St. Paul's College, Kalamassery, organized a talk on *Emerging Technologies in Science* as part of the Association Valedictory function. The session aimed to provide students with insights into the latest advancements transforming the scientific world, such as nanotechnology, artificial intelligence in research, green chemistry, and renewable energy innovations. The resource person highlighted how these cutting-edge technologies are revolutionizing various scientific fields and emphasized the importance of staying updated with such developments to meet future challenges. The talk inspired students to think beyond conventional methods and encouraged them to embrace innovation and research-driven approaches in their academic and professional journeys.



EXTENSION ACTIVITIES

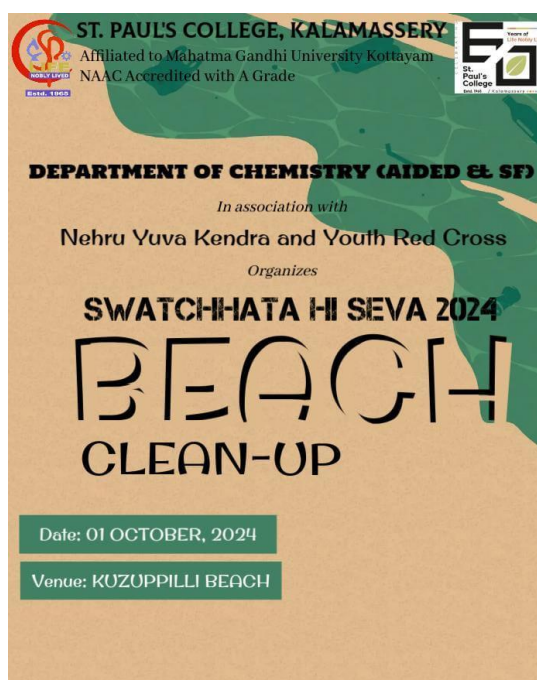
Mangalavanam Visit and Plastic Awareness Campaign

On 12th February 2025, the Department of Chemistry organized an environmental outreach program at Mangalavanam Bird Sanctuary, Kochi. This initiative aimed to raise awareness about plastic pollution and actively engage in cleaning efforts to preserve the sanctuary's ecosystem. The program commenced with an informative session on the detrimental effects of plastic pollution, particularly focusing on its impact on urban green spaces like Mangalavanam. Students and faculty interacted with visitors, distributing educational materials and discussing sustainable alternatives to single-use plastics. The campaign emphasized the importance of individual responsibility in reducing plastic waste and protecting natural habitats. Following the awareness session, participants engaged in a hands-on cleanup activity within the sanctuary premises. Equipped with gloves and biodegradable collection bags, the team collected plastic waste and other non-biodegradable materials scattered around the area. This effort not only improved the cleanliness of the sanctuary but also served as a practical demonstration of environmental stewardship. The visit to Mangalavanam Bird Sanctuary on 2024 was a successful blend of education, action, and community involvement. The Department of Chemistry's commitment to environmental awareness and conservation was evident through the proactive participation of students and faculty. Such initiatives are vital in cultivating environmentally conscious citizens and preserving natural ecosystems for future generations.



Extension activity-SWATCHHATA HI SEVA 2024 (Beach Cleaning Drive)

Extension activity-SWATCHHATA HI SEVA 2024 (Beach Cleaning Drive). A Beach Cleaning Drive is an organized effort to clean and maintain the cleanliness of coastal areas. It typically involves volunteers who gather to collect litter, plastic waste, and other debris from the beach, helping to preserve the natural beauty and environmental health of the shoreline. These drives play a crucial role in protecting marine life, as they prevent harmful materials from entering the ocean and disrupting ecosystems. Besides promoting environmental sustainability, beach cleaning drives foster community engagement and raise awareness about the importance of reducing waste and protecting our planet.



Extension Activity- Valsalyam Sisubhavan Visit

A visit was made to Valsalyam Sisubhavan, a children's home located in Kalamassery on 02-12-2024. Three faculties and 14 students from PG and 9 students from UG were participated. Sisubhavan is an establishment dedicated to providing care, shelter, and education for orphaned, abandoned, or underprivileged children. The home aims to nurture the children's emotional, physical, and mental well-being while offering them opportunities for academic growth and personal development.



Road Safety Awareness Programme

The Department of Chemistry, St. Paul's College, Kalamassery, in association with the Motor Vehicles Department (MVD) and Nehru Yuva Kendra (NYK), Ernakulam, organized a Bike Rally as part of a Road Safety Awareness campaign. The rally aimed to promote safe driving practices and create public awareness about the importance of following traffic rules. Students and faculty members actively participated in the rally, carrying messages on road safety and responsible driving. The event was flagged off by officials from the MVD and NYK, who also addressed the participants, highlighting the alarming rise in road accidents and the need for collective action to ensure safer roads. The rally covered key areas around the college, effectively spreading awareness among the general public. This initiative helped students develop a sense of social responsibility and emphasized the importance of being vigilant and disciplined road users.

Plastic Pollution Awareness Campaign

The Department of Chemistry, St. Paul's College, Kalamassery, organized a street play as part of the Plastic Pollution Awareness Programme at Ooty. Through this creative initiative, students effectively conveyed the urgent need to reduce plastic usage and adopt sustainable alternatives. The street play depicted the harmful effects of plastic pollution on the environment, wildlife, and human health, capturing the attention of the general public and tourists. The vibrant performances, combined with impactful messages, aimed to inspire responsible behaviour and promote a plastic-free lifestyle among the community.

Through their participation, students not only enhanced their communication and teamwork skills but also developed a strong sense of social responsibility and environmental consciousness. The activity also improved their confidence to engage with the public and use creative methods to spread scientific awareness.



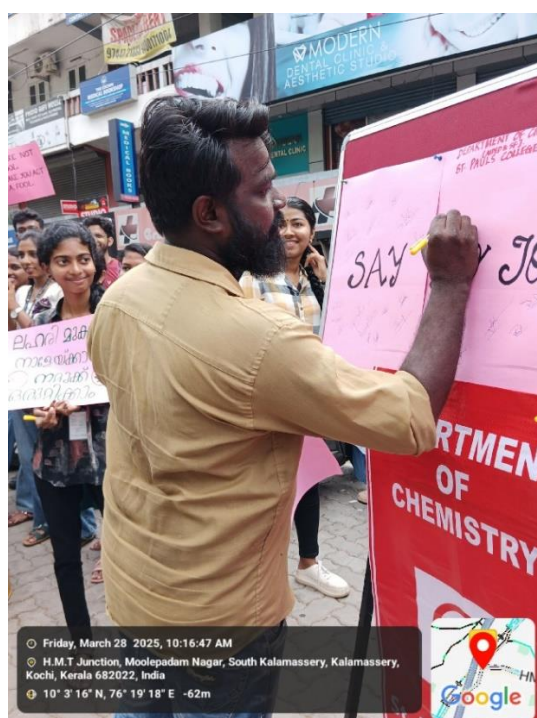
Student Teacher Programme

The Department of Chemistry organized an engaging extension activity in the form of a science exhibition at HMT School, Kalamassery. The event aimed to ignite scientific curiosity and awareness among school students through interactive and educational displays. Under the guidance of faculty members, undergraduate students showcased a variety of chemistry-based experiments, working models, and informative charts. Topics ranged from environmental chemistry and the chemistry of everyday life to innovative experiments demonstrating chemical reactions, acid-base indicators, and sustainable energy solutions. The exhibition received enthusiastic participation from the school students, who interacted actively with the presenters, gaining insights into basic scientific principles and their real-life applications. This outreach initiative helped bridge the gap between academic learning and community engagement, fostering a spirit of scientific inquiry among young minds. The program concluded successfully with positive feedback from the school faculty and students, reflecting the effectiveness of the department's commitment to science communication and social responsibility.



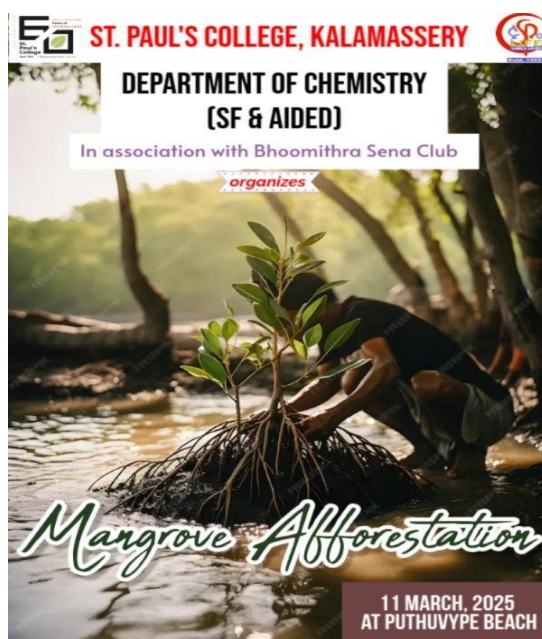
Anti Drug Rally and Signature campaign

The Department of Chemistry(Aided &SF) at St. Paul's College, Kalamassery organized an impactful anti-drug rally and signature campaign aimed at raising awareness about the dangers of substance abuse. The event, held in collaboration with the college's Red Cross cell, saw enthusiastic participation from students and faculty alike. The rally, which passed through various parts of the HMT junction, featured slogans and banners promoting a drug-free lifestyle, encouraging students to stay informed and vigilant. Following the rally, a signature campaign was conducted where participants pledged their commitment to a life free from drugs. Faculty members also addressed the gathering, highlighting the harmful effects of drug use and the importance of mental and emotional well-being. The initiative successfully sparked meaningful conversations and reinforced the college's ongoing commitment to creating a healthy, supportive environment for all students.



Mangrove Afforestation

The Department of Chemistry (Aided and Self-Financing), St. Paul's College, Kalamassery, in association with the Bhoomitrasena Club, organized a Mangrove Afforestation programme at Puthuvype Beach. This eco-friendly initiative aimed to promote environmental conservation and restore the coastal ecosystem through the planting of mangrove saplings. Mangroves play a vital role in protecting shorelines, preventing soil erosion, and supporting marine biodiversity. The students actively participated in planting saplings along the beach area, contributing to the protection and rejuvenation of the fragile coastal environment. The programme also included awareness sessions highlighting the ecological importance of mangroves and the need for their preservation, fostering a sense of responsibility and environmental stewardship among the participants.



Extension activity-“STOP OCEAN PLASTIC POLLUTION”

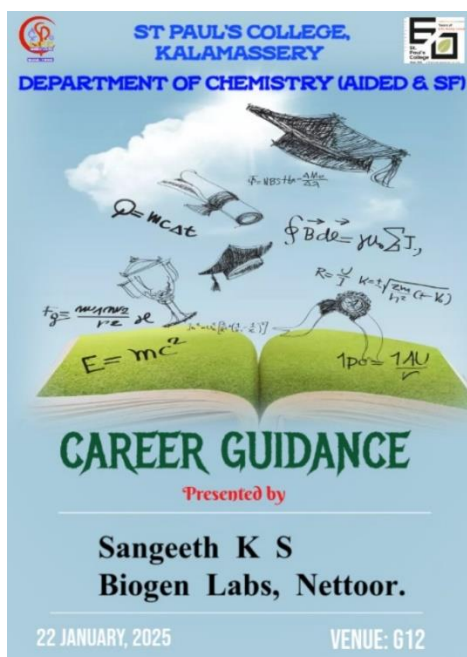
Extension activity-“STOP OCEAN PLASTIC POLLUTION” . As part of our commitment to environmental stewardship and community engagement, our students organized a **Plastic Pollution Awareness Drive** at **Munambam Harbour** in association with **Plan@earth** an NGO organisation. This initiative aimed to raise awareness among local fishermen, vendors, and visitors about the growing threat of plastic pollution to marine life and the coastal ecosystem. During the drive, students interacted with the public and displayed posters highlighting the dangers of single-use plastics.



CAREER GUIDANCE PROGRAMMES

CAREER GUIDANCE

A session was conducted on 22nd January 2025 at 12:00 PM in Room G12 by resource person Sangeeth K. S. The event was organized in collaboration with Biogen Labs, Nettoor, and the Department of Chemistry (Aided). The session focused on various instruments used for chemical analysis and their practical applications in research and industry. Students were introduced to modern analytical tools and techniques, enhancing their understanding of instrumental methods in chemistry. The session was highly informative and interactive, providing valuable knowledge for students pursuing studies and careers in chemical sciences. It proved to be a beneficial learning experience for all attendees.



Awarness Programme on various Multimedia

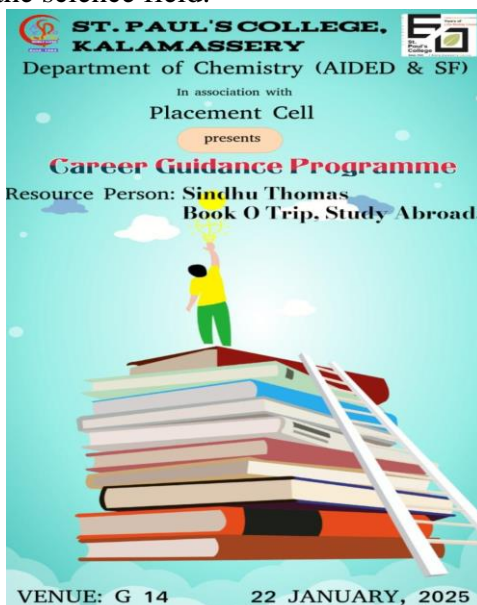
The Department of Chemistry (Aided and Self-Financing), St. Paul's College, Kalamassery, in association with Nehru Yuva Kendra (NYK), organized a career guidance programme focusing on awareness of various opportunities in the field of multimedia. The session aimed to introduce students to the growing scope of multimedia technologies and their applications across different industries. Expert resource persons provided valuable insights into career prospects, skill requirements, and emerging trends in areas such as graphic designing, animation, video editing, and digital media production. The programme encouraged students to explore creative career paths and equipped them with a better understanding of how multimedia skills can complement their academic background.

Through this initiative, students gained awareness of new-age career options, improved their understanding of industry expectations, and developed motivation to upskill themselves in emerging technology-driven fields.



Career Guidance Programme

A session was held on 22nd January 2025 at 12:30 PM in Room G14, led by resource person Sindhu Thomas. The event was organized in collaboration with Book O Trip, the Study Abroad Cell, and the Placement Cell. It provided valuable insights for science students regarding higher education and career opportunities abroad. The session covered important aspects such as application procedures, course selections, and potential job prospects in various countries. Students found the session highly informative and engaging, gaining clarity on international education pathways. The event successfully encouraged students to explore global academic and career opportunities in the science field.



OTHER PROGRAMMES/COMPETITIONS

World Environment Day Celebration 2024- Pencil Drawing Competition

The main purpose of the World Environment day is to spread awareness about the current conditions of the Environment and this year's theme is "Land restoration, desertification and drought resilience". The Department of Chemistry organised a Pencil Drawing Competition as part of World Environment Day Celebration 2024 on 5th June 2024. Seven students participated in the programme. Anaiya Robin K. R., I M.Sc. Chemistry student secured first prize and Sreejith M. B., III B.Sc. Chemistry secured second prize. Environment Day reminds us to consolidate our planet and ensure that the Environment is conserved at all costs. It illuminates the causes that cause the most damage in our Environment. Therefore, this Day serves as an eye-opener for many citizens who are unaware of all this. In other words, it spreads awareness to students about the current situation. In addition, it also encourages the community from different communities and communities to play an active role in celebrating this Day.

Pledge Against Drug Abuse in Connection with Nasha Mukh Bharat Abhiyaan

The M.Sc. Chemistry students of St. Paul's College, Kalamassery, in association with the *Nasha Mukh Bharat Abhiyaan* (NMBA), organized an event to take a pledge against drug abuse. The event was aimed at spreading awareness about the dangers of substance abuse and encouraging young people to make a commitment to a drug-free lifestyle. The event began with an introductory speech by the faculty coordinator of the M.Sc. Chemistry department, who emphasized the significance of educating the youth about the consequences of drug abuse. The coordinator highlighted that students, particularly in academic institutions, are at an impressionable age and can greatly influence societal change. The participants, consisting of faculty members and students, were then introduced to the *Nasha Mukh Bharat Abhiyaan*, which is designed to raise awareness, provide support for rehabilitation, and prevent drug-related issues in communities across the country. The highlight of the event was the formal pledge ceremony. All attendees, including the faculty and students, took the *Nasha Mukh Bharat* pledge, promising to:

- Stay away from drugs and encourage others to do the same.
- Spread awareness about the dangers of substance abuse.
- Help those who are affected by addiction to seek support and rehabilitation.
- Work towards building a drug-free environment within their college, family, and community.

The event concluded with a vote of thanks delivered by a student representative, who expressed gratitude to the faculties, and all students for their active participation.



GURUPRANAM 2K24

The Department of Chemistry organized GURUPRANAM 2K24 as part of the Teacher's Day Celebration 2024. PG Semester 1 students were grouped and prepared teaching materials, including PowerPoint presentations and charts, conducted classes for UG Semester 1 students on basic chemistry topics.



ADD ON COURSES

SUSTAINABLE ENTREPRENEURSHIP MANAGEMENT

Department of Chemistry conducted an Add on course in Sustainable Entrepreneurship Management. The course covered theory as well as the practical class of this topic. There were total of 23 students from PG classes and 26 students from UG classes as the participants. The course was coordinated by Dr.Maria Augustine and Dr. Manju P Nair. Candle making is a craft that involves the creation of candles through the process of melting wax and molding it into a desired shape. Candles are often used for illumination, decoration, or as a means of creating ambiance, but they can also be made for therapeutic, aromatic, or aesthetic purposes.



ST. PAUL'S COLLEGE, KALAMASSERY
DEPARTMENT OF CHEMISTRY
(SF & AIDED)

organizes

WORKSHOP ON CANDLE MAKING

DATE: 05-12-2024
VENUE: PG LAB

ST. PAUL'S COLLEGE, KALAMASSERY
DEPARTMENT OF CHEMISTRY
(SF & AIDED)

SCENTED CANDLES SALES & EXHIBITION

DECEMBER 18TH, 2024

GRAB YOUR CANDLES

STARTS 11:45 AM | VENUE: PORTICO

DON'T MISS IT !!

JAM AND SQUASH MAKING

The Department of chemistry offered Add on course on “Jam and squash making” for the chemistry students during the academic year 2022 -25. This course provides participants learn the art of selecting fruits, preparing them (including washing, peeling, and chopping), and cooking them with sugar and pectin to create a perfect jam with the right texture and taste. The course covers various fruit combinations and special recipes. The course also delves into making fruit squash, a concentrated syrup that can be diluted to make refreshing beverages. Learners are taught how to extract juice, balance sugar levels, and ensure proper storage for long shelf life. An important aspect of the course is understanding food preservation techniques, including sterilizing jars, sealing, and storing the final products to ensure they stay fresh and safe for consumption. Practical sessions are usually included, where participants get to make their own jams and squashes, learn troubleshooting tips, and refine their recipes under expert guidance.

