

St. Paul's College, Kalamassery
Archdiocese of Verapoly

Affiliated to the Mahatma Gandhi University, Kottayam

www.stpauls.ac.in

0484 2555572

mail@stpauls.ac.in

DEPARTMENT OF CHEMISTRY (AIDED)



ANNUAL REPORT 2024 - 2025

SEMINARS

**Innovating today, transforming
tomorrow – the power of chemistry**

Seminar on "Advances in Applied and Chemical Science 2024"

The International Seminar on "Advances in Applied and Chemical Science 2024", organized by the Department of Chemistry (aided and SF) in collaboration with the College Development Council, was held on October 24–25, 2024. The event brought together researchers, academicians, and industry professionals to explore advancements in material science and sustainability. Prof. (Dr.) M. Junaid Bushiri, Vice-Chancellor of CUSAT, delivered the keynote address. Experts from various research institutes, including National Taiwan University of Science and Technology, contributed significantly. Sessions addressed current research, innovations, and sustainable technologies. A hybrid model enabled both online and offline oral and e-poster presentations. With around 200 participants and 50 presentations, the seminar was a major success, reflecting the dedication of organizers and participants to advancing scientific knowledge for a sustainable future.



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

**International Seminar
ADVANCES IN APPLIED AND CHEMICAL SCIENCE 2024
AACSS 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**

Day 2 (25/10/2024)
9:45 am-11:10 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 : Voteclatory Function

CALL FOR PAPERS
Themed 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 Valorisation
- Smart and Functional Materials
- Natural Product Chemistry
- Applied Chemistry
- Medical Chemistry

Oral & e-poster presentation
Final level of presentation available
Online submission platform: <https://www.pearlcam.ac.in>

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. (JAPC Application)

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

About the College
St. Paul's College, affiliated to Mahatma Gandhi University, and Recognized by UGC is a prestigious and well-known college which nurtures under the Academics of Marthoma. The college endeavors to create a new enlightened generation which is socially committed, academically proficient, digitally enabled and spiritually refined, so as to enable them to face the challenges of the changing times. The College started functioning from 13th July 1962. At present the college offers undergraduate courses in Economics, Physics, Mathematics, Chemistry, Commerce, English and Vocational studies.

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

Programme Schedule

Day 1 (24/10/2024)
9:30 am : Registration
9:30 am : Inauguration

11 am-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

Advisory Committee

Prof. Alexander Vlod
Institute of Condensed Matter and Nanoscience,
Université Catholique de Louvain, Belgium

Prof. Vijayaraj Thakur
Bioscience and Advanced Materials Research
Centre, Scotland's Rural College UK

Dr. David M. Marshall
School of Engineering, University of Glasgow,
Glasgow

Prof. Joo-Hyun-ahn
Gyeongang National University, Republic of
Korea

Prof. Lina Manjula
School of Computing and Engineering, a Built
Environment, Edingburg Napier University, UK

Mr. Fahir Joshi
MSc, Chemistry IITB

Dr. Manoharan R
MSc, KUST

Dr. Sanku K. Nayak
POST DOCTORAL FELLOW
CSIR-RCST, Thiruvananthapuram

Contact Number:
Dr. Sajee Francis K. : 887846286
Ms. Ashish : 9959700221

Organizing Committee

Dr. Varghese Vallyparambil, Manager
Dr. Rajan Rajendran, Asst. Manager
Prof. Prasad Ramachandran, Principal
Dr. Raju Raj, Self Finance Co-ordinator
Dr. Treasa Suresh George, HOD (Commerce)
Dr. Maria Augustine, Asst. Professor
Dr. Sajee Francis K., Asst. Professor (Co-ordinator)
Ms. Ashish R., Asst. Professor (Co-ordinator)
Mr. Tamin Joseph, Asst. Professor
Ms. Manasi Jaisankar, Asst. Professor
Ms. Henry George, Asst. Professor
Ms. A.R. Pooja, Asst. Professor
Mr. A.R. Asst. Professor
Mr. Fahir Joshi
Ms. Christina IBB

FOR REGISTRATIONS
<https://www.pearlcam.ac.in> or registration@chemistry.ac.in
Faculty: ₹ 750
Persons from industry: ₹ 1000/-
Research Scholar: ₹ 500/-
Student: ₹ 200/-

Account Details
Name : Saint Francis K
Bank : SBI Vayalar
A/c No : 87111052431
IFSC : SBIN0070895

The Department of Chemistry (Aided & SF), St. Paul's College, and St. Teresa's College jointly organized "Walk with a Scientist" on July 23, 2024. Dr. Jayan Thomas from the University of Central Florida spoke on converting electric car bodies into energy storage systems and shared insights on research and higher education opportunities in the USA



St. Paul's College, Kalamassery
Department of Chemistry (Aided & SF)
 organises
Walk with a Scientist
 A talk on Energy Storage Systems
 Partnering Institution: Department of Chemistry, St. Teresa's College, Ernakulam



Dr. Jayan Thomas
 Professor of Nanotechnology,
 University of Central Florida, USA

- Venue: AV Room, Science Block, St. Teresa's College, Ernakulam
- Date :23/07/2024
- Time :1:30pm

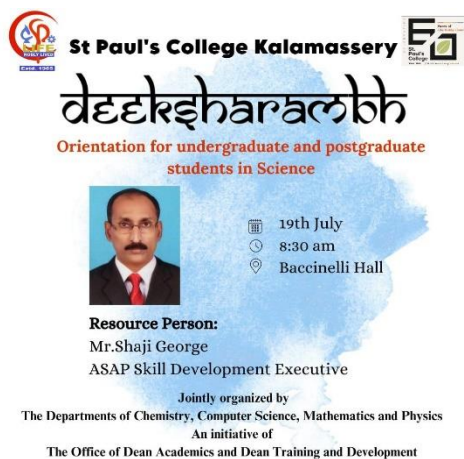
DON'T MISS YOUR CHANCE

Made with PosterMyWall.com




DEEKSHARAMBH 2024

The Departments of Chemistry, Computer Science, Mathematics, and Physics jointly organized the *Deeksharambh* orientation for first-year UG and PG students, in collaboration with the Dean Academics and Dean Training & Development. Sessions were led by various college units, including Anti-ragging, NCC, NSS, and scholarships.



St Paul's College Kalamassery

Deeksharambh
 Orientation for undergraduate and postgraduate students in Science



Resource Person:
 Mr. Shaji George
 ASAP Skill Development Executive

19th July
 8:30 am
 Baccinelli Hall

Jointly organized by
 The Departments of Chemistry, Computer Science, Mathematics and Physics
 An initiative of
 The Office of Dean Academics and Dean Training and Development



Career Guidance Programme

The Chemical Witness: Forensic Science in action

The Career Guidance Programme, "*The Chemical Witness: Forensic Science in Action*", jointly organized by the Department of Chemistry (Aided and SF), featured Mr. Binshad M.S., Assistant Professor, CUSAT. He provided an engaging overview of forensic science and its role in criminal investigations, highlighting its interdisciplinary nature involving chemistry, biology, and law.

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

Career Orientation Programme
jointly organised by
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



How to crack IIT-JAM

The Department of Chemistry (Aided and SF), in association with The Cochin College, organized a Career Orientation Program on January 14, 2025, titled "*Opportunities Offered by Chemistry in the Academic and Industrial Profession.*" Dr. Roshith, Scientist at VSSC, led the session, offering insights into higher education, research, and careers in chemistry-related fields. He emphasized the role of chemistry in diverse sectors like pharmaceuticals and environmental science, while students engaged actively with questions on career paths.

DEPARTMENT OF CHEMISTRY
(AIDED & SF)
ST. PAULS COLLEGE, KALAMASSERRY

CAREER ORIENTATION PROGRAMME

OPPORTUNITIES OFFERED BY CHEMISTRY IN ACADEMIC AND INDUSTRIAL PROFESSIONS

JAN 14, 2025
TIME 10.00 AM TO 11.30AM
VENUE: SEMINAR HALL,
THE COCHIN COLLEGE, COCHIN

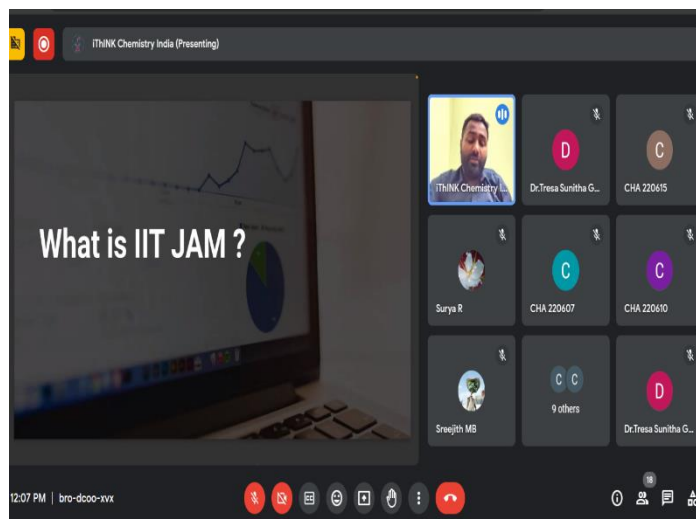
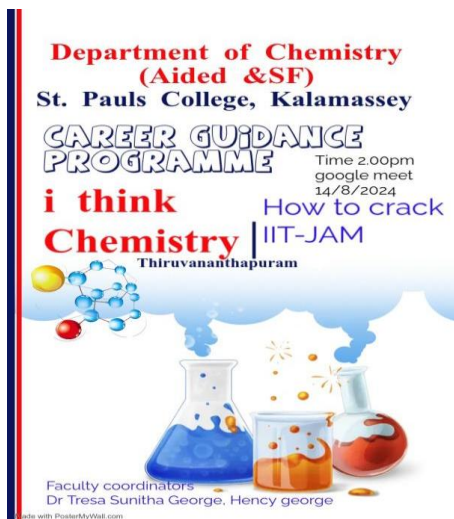
Dr. Roshith K R
Scientist/Engineer
Polymers & Special
Chemicals Division
VSSC

In association with
Department of Chemistry
The Cochin College, Cochin



How to crack IIT-JAM with i think chemistry

The online programme “How to crack IIT-JAM” was conducted by the faculty, Mr. Akshay R, Career Thinks, HiLite Business Park, Calicut, Kerala. This was regarding guidance for UG students for options of higher studies and classes regarding upcoming qualifying exams like JAM, CSIR.



Awareness Programme on various Multimedia courses

The Department of Chemistry, St. Paul’s College, in collaboration with Nehru Yuva Kendra, conducted a career guidance programme on multimedia opportunities. The session introduced students to fields like animation, graphic design, and digital media, highlighting career prospects and skill requirements. It motivated students to explore creative paths and gain awareness of evolving industry trends.



St. Paul's College, Kalamassery

AWARENESS PROGRAMME ON VARIOUS MULTIMEDIA COURSES

organized by

Department of Chemistry (Aided & Self-Financing)
St. Paul's College, Kalamassery
 In Association with
Kerala State Youth Welfare Board
 (An Approved Training Partner of National Skill Development Corporation, Govt. of India)

Venue: Baccinelli Hall
 Date: 25-03-2025
 Time: 11:45 AM

Key Highlights

- Expert Sessions by Industry Professionals
- Skill Development Insights
- Explore new career pathways in multimedia!

For More Details, Contact:
 chemistry@stpauls.ac.in
 +91 9605674605

Enhance your skills, shape your future!

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

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

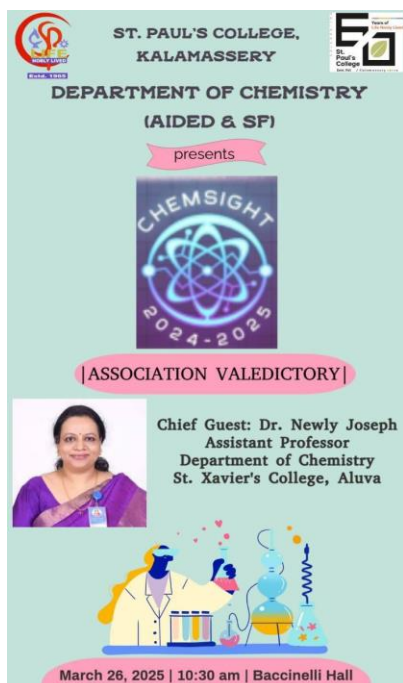
Resource Person : M. I . VARGHESE
(Retd. IFS Officer, Kerala Forest Department)

Topic: Come Join Hands To Protect Our Environment

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

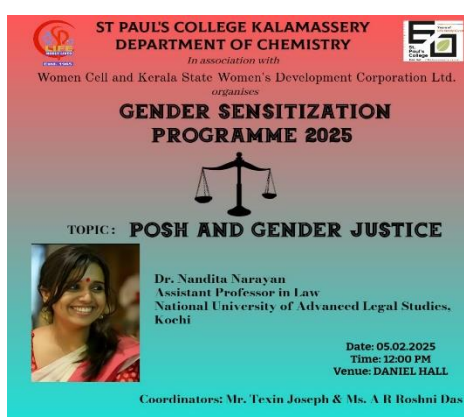
“Emerging Technologies in Science”

The Department of Chemistry, St. Paul’s College, Kalamassery, conducted a talk on “Emerging Technologies in Science” on 26th March 2025 at Baccinelli Hall, featuring Dr. Newly Joseph from St. Xavier’s College, Aluva. Sixty students attended the session, which introduced advancements like nanotechnology, AI in research, and green chemistry. The talk broadened students' awareness of evolving scientific fields, enhanced their curiosity, and encouraged a research-oriented mindset.



Report on Gender Sensitisation Programme

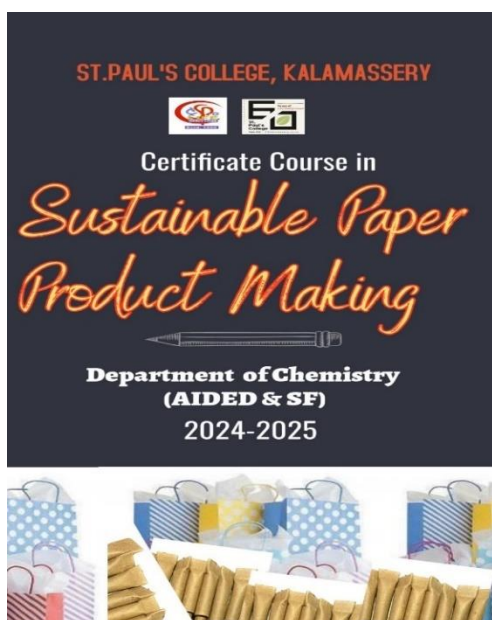
On 5th February 2025, the Department of Chemistry organized a Gender Sensitisation session led by Dr. Nanditha Narayanan from NUALS, Kochi. The session focused on gender awareness, legal rights, and respectful communication. Students explored topics like stereotypes, inclusivity, and legal protections through case studies and discussions. Active participation from UG and PG students made the session impactful, encouraging empathy, understanding, and inclusive practices.



Certificate courses

Sustainable Paper Product Making

The Department of Chemistry (AIDED & SF), St. Paul's College, organized a 30-hour Interdepartmental Certificate Course titled "*Certificate Course in Sustainable Paper Product Making*" from July 1, 2024, to March 31, 2025. Conducted in the UG Chemistry Lab and workshops, it emphasized environmental awareness, waste management, and entrepreneurship.



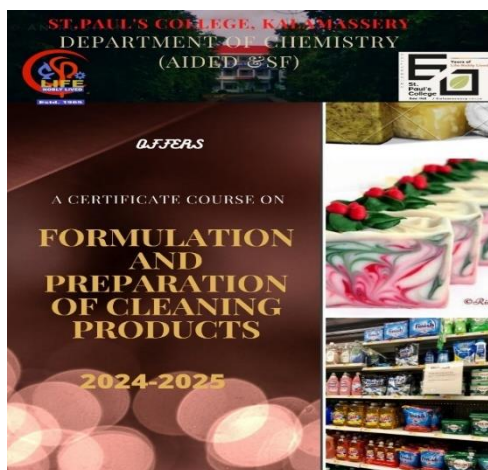
CANDLE CRAFTING

The Department of Chemistry (AIDED & SF), St. Paul's College, conducted an Interdepartmental Certificate Course in *Candle Crafting* from July 1, 2024, to March 31, 2025. Led by Dr. Tresa Sunitha George and Ms. Roshini Das, the course combined theory and hands-on training in candle making, attended by 8 faculty members and Chemistry students. Topics included types of waxes, wicks, eco-friendly practices, and small-scale business ideas, blending creativity with chemistry and entrepreneurship.



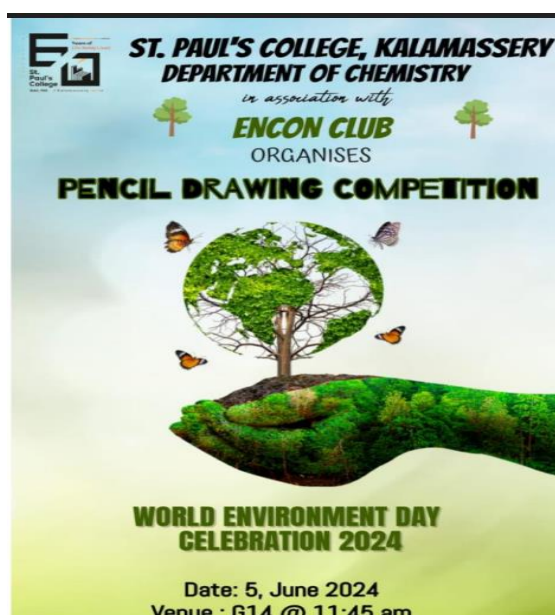
Formulation and Preparation of Cleaning Products

The Department of Chemistry (AIDED & SF), St. Paul's College, conducted a Certificate Course in *Formulation and Preparation of Cleaning Products* from July 1, 2024, to March 31, 2025. Led by Dr. Maria Augustine and Ms. Roshini Das, the course offered theory and hands-on training in making soap, toilet cleaner, floor cleaner, hand wash, and dishwashing liquid. It enhanced students' practical skills and understanding of chemical formulations in daily life.



World Environment Day Celebration 2024

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.



GURUPRANAM 2K24

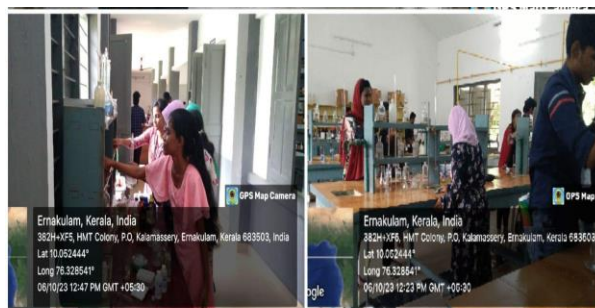
The Department of Chemistry organized GURUPRANAM 2K24 as part of the Teacher's Day Celebration 2024. PG Semester 1 students were grouped and prepared teaching materials, including PowerPoint presentations and charts, conducted classes for UG Semester 1 students on basic chemistry topics.

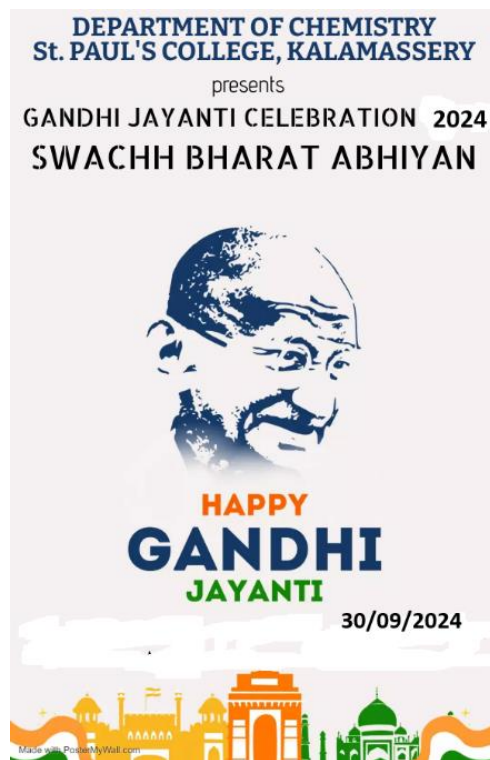
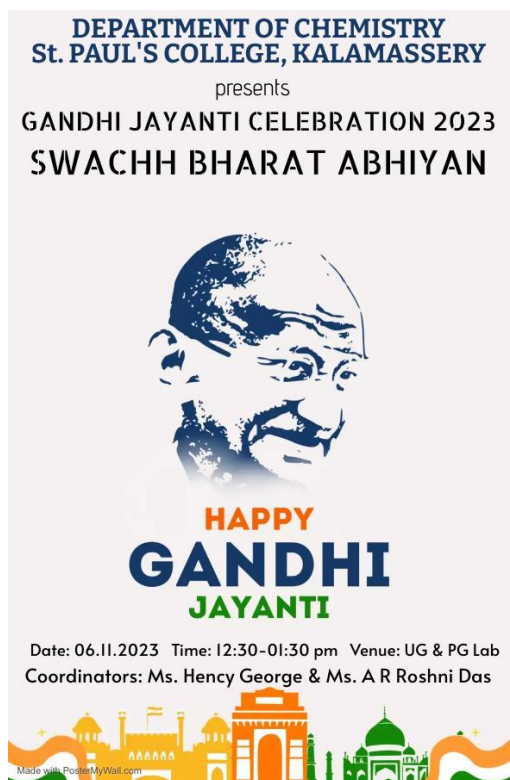


GANDHI JAYANTI CELEBRATION 2023 SWACHH BHARAT ABHIYAN

As part of Gandhi Jayanti 2024 and the Swachh Bharat Abhiyan, UG and PG students, along with faculty, participated in a classroom and department cleaning drive on 06-10-2023. The activity promoted hygiene, teamwork, and responsibility while ensuring a clean and safe learning environment.

On 30-09-2024, 40 students and 8 teachers from the Department of Chemistry (Aided and SF) conducted a classroom and department cleaning drive





Extension activity-

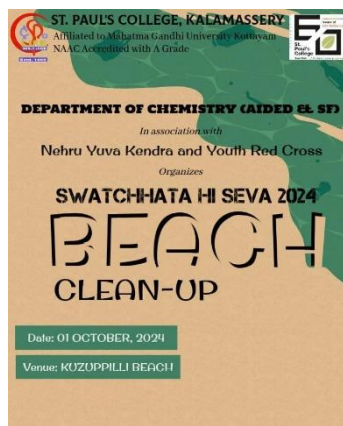
STOP OCEAN PLASTIC POLLUTION” .

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...During the drive, students interacted with the public and displayed posters highlighting the dangers of single-use plastics.



SWATCHHATA HI SEVA 2024 (Beach Cleaning Drive)

As part of the SWACHHATA HI SEVA 2024 initiative, the Department of Chemistry, in collaboration with Nehru Yuva Kendra and the Youth Red Cross, organized a Beach Cleaning Drive on 1st October 2024 at Kuzhuppilli Beach. The event was held from 9:00 a.m. to 3:30 p.m. and saw the active participation of 34 volunteers. The drive aimed to promote environmental cleanliness and raise awareness about the harmful effects of plastic and other waste materials on marine ecosystems.



1. SANTHWANAM 2024-25-@ DARE Centre for special education Munnar

Second-year UG Chemistry students, along with Dr. Tresa Sunitha George and Mr. Texin Joseph, visited *Shrishthi Charitable Trust* in Munnar, which supports differently-abled children of plantation workers. The visit aimed to offer companionship and emotional support. Students engaged in interactive sessions, games, storytelling, and performances, promoting social connection and emotional well-being for both students and residents.



Mangalavanam Visit and Plastic Awareness Campaign

On 12th February 2025, the Department of Chemistry conducted a plastic awareness campaign and cleanup drive at Mangalavanam Bird Sanctuary, Kochi, with 50 students and faculty coordinators participating. The program included an awareness session on the effects of plastic pollution and interactions with visitors to promote eco-friendly alternatives. This was followed by a cleanup activity where students collected plastic waste from the sanctuary, reinforcing the importance of environmental responsibility and conservation..



Valsalyam Sisubhavan Visit

A visit to Valsalyam Sisubhavan, Kalamassery, was conducted on 02-12-2024 with the participation of three faculty members, 14 PG students, and 9 UG students. Sisubhavan provides care and education to orphaned and underprivileged children. The visit offered students valuable insights into child welfare and social responsibility, raising awareness about poverty and inspiring them to contribute positively to society.



Anti-Drug Rally and Signature Campaign

On 28th March 2025, the Department of Chemistry (Aided & SF), in collaboration with the Red Cross of St. Paul's College, organized an anti-drug rally and signature campaign at HMT Junction. With active participation from 40 students and 7 teachers, the event promoted awareness about the harmful effects of drug use and encouraged a drug-free lifestyle. The rally and pledge campaign fostered social responsibility, peer support, and commitment to a healthy, addiction-free environment.



Student Teacher Programme

The Department of Chemistry organized a science exhibition at HMT School, Kalamassery on 13th February 2025 as part of a student-teacher extension programme. Ten undergraduate students presented interactive experiments and models on topics like environmental chemistry, acid-base indicators, and everyday applications of chemistry



Mangrove Afforestation

The Department of Chemistry, St. Paul's College, Kalamassery, in association with the Bhoomitrasena Club, organized a Mangrove Afforestation programme at Puthuvype Beach on 11th March 2025. Students actively took part in planting saplings, promoting coastal conservation and learning the ecological importance of mangroves. The initiative fostered teamwork, environmental responsibility, and awareness of sustainable practices.



Road Safety Awareness Programme

The Department of Chemistry, St. Paul's College, Kalamassery, in collaboration with the Motor Vehicles Department and Nehru Yuva Kendra, Ernakulam, organized a Bike Rally on 16th January 2025 at HMT Junction to raise awareness on road safety. Nine students participated, spreading messages about safe driving and traffic rules. The event was flagged off by officials who emphasized the growing concern of road accidents and the need for public awareness.

WORKSHOP ON “JAM AND SQUASH MAKING”

The Department of chemistry offered work shop on course on “Jam and squash making” for the Bsc 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.



On 5th February 2025, the Department of Chemistry organized a Gender Sensitisation session led by Dr. Nanditha Narayanan from NUALS, Kochi. The session focused on gender awareness, legal rights, and respectful communication. Students explored topics like stereotypes, inclusivity, and legal protections through case studies and discussions. Active participation from UG and PG students made the session impactful, encouraging empathy, understanding, and inclusive practices.