



St. Francis

College for Women

Begumpet, Hyderabad-500016

(Autonomous & Affiliated to Osmania University)
NAAC Re-accredited with 'A' Grade 4th Cycle



जैवप्रौद्योगिकी विभाग

DEPARTMENT OF
BIOTECHNOLOGY

ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD

ACADEMIC YEAR 2023 - 2024

DEPARTMENT OF CHEMISTRY

Report on “National Seminar on the Emerging Trends in Sustainable Chemistry, Nanotechnology, and Electroanalytical Methods”

Date: 18-01-2024

Time: 9.30 am to 4.00 pm

Brochure:

[Click here to Register](https://forms.gle/VfsEr6dTUDmXTIDF8)
<https://forms.gle/VfsEr6dTUDmXTIDF8>

For more details

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Dr. M. Shailaja Raj
Vice Principal R&D

Convener
Dr. D. Sumalatha
Head, Dept. of Chemistry

Organizing Committee

Ms. Lakshmi Madhuri (Organizing Secretary)
Dr. Sabiha Fatima
Dr. Asha Danthi
Dr. B. Uma Rani

Faculty Department of Chemistry

Dr. D. Sumalatha

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Dr. Shikha Chander	Dr. V. Radhika
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Ms. Shravya Rao	Ms. M. Deepthi
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DBT STAR COLLEGE
(Under the Strengthening component)

Department of Chemistry

Organizes a National Seminar on

“Emerging Trends in Sustainable Chemistry, Nanotechnology, and Electroanalytical Methods”

January 18-1-2024
from
9:30 am – 4:00 pm



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सत्यमेव जयते

ABOUT THE COLLEGE

St. Francis College, founded in 1959 with the mission of providing holistic education to women students, is an autonomous college affiliated to Osmania University. The College was awarded CPE status in 2004 by UGC. The College offers UG and PG courses in the faculties of Arts, Science, Commerce, and Management Courses. The College has autonomy at both UG and PG level and has Choice Based Credit System. Under this system students are offered a wide range of interdisciplinary electives, certificates, diploma courses in addition to their core syllabi.

ABOUT THE DEPARTMENT

The Chemistry Department is at the forefront of academic excellence and scientific exploration comprising eminent faculty, researchers, and passionate students committed to fostering a dynamic learning environment. The Department established in 1962, offers UG and PG programmes in Chemistry. The post-graduation course (M.Sc. Organic Chemistry) was introduced in 2011. The department is proud to have completed 62 years of UG, with 9 full-fledged B.Sc. courses and 13 years of PG programme. To the department's credit, one Australian patent was granted, three Indian patents were published. State-of-the-art laboratories equipped with cutting-edge instrumentation provide students

with hands-on experiences, cultivating practical skills essential for their scientific journey. UG and PG students work on projects at our Marie Curie Research Centre apart from reputed public and private research centres to get acquainted with industrial tools. The Chemistry Department is proud to be supported by two esteemed national funding agencies, Department of Science and Technology (DST) and the Department of Biotechnology (DBT) for funds granted under DST-Curie, and Star DBT schemes to benefit both staff & student research activities.

ABOUT THE SEMINAR

The seminar, titled 'Emerging Trends in Sustainable Chemistry, Nanotechnology, and Electroanalytical Methods' promises an in-depth exploration of the dynamic crossroads where these three pivotal disciplines converge. Participants will have the opportunity to dive into the forefront of sustainable chemistry, uncovering novel methodologies and practices that promise a reduced environmental impact and heightened resource efficiency. The seminar will cast a spotlight on the transformative realm of nanotechnology, where the manipulation of matter at the nanoscale opens new frontiers for innovation. The discussion on electroanalytical methods will offer a comprehensive understanding of the latest advancements in analysing and characterizing materials at the molecular level. The overarching goal is to inspire a collective vision for a more sustainable and technologically advanced future, where these emerging trends play a crucial role in shaping the landscape of scientific and technological progress. Join us for a day of exploration, discovery, and the investigation of possibilities at the foreground of scientific innovation.

PROGRAM SCHEDULE

Inaugural Ceremony

9:30 - 10:00 AM

Inaugural Address

10:00 - 11:00 AM

Prof. Vijjulatha Manga

Vice Chancellor

Telangana Mahila Visvavidyalayam
Hyderabad, Telangana

Keynote Address

11:15-12:30 PM

Green Chemistry For Sustainable Development

Dr. Subrahmanyam. Ch
Professor

Department of Chemistry
IIT - Hyderabad

Technical Session

1:30 - 2:45 PM

Nanotechnology Fundamentals, Techniques and Applications

Dr. S. Prasanth Kumar
Scientist

Polymers and Functional
Materials CSIR - IIT
Hyderabad

Technical Session

2:45 - 4:00 PM

"Electro Analytical Techniques"

Dr. Narendra Kurra
Assistant Professor
Department of Chemistry
IIT - Hyderabad

The Department of Chemistry organised a National Seminar on the "Emerging Trends in Sustainable Chemistry, Nanotechnology, and Electroanalytical Methods" under DBT STAR COLLEGE (Strengthening Component) for the B.Sc. III year Chemistry students of Life Sciences and Physical Sciences from all over India. The total number of student registrations were 300 which includes 270 students from St. Francis and colleges across other states & 30 faculty. The inaugural address was delivered by the esteemed chief guest, Professor M. Vijjulatha, Vice chancellor, Telangana Mahila Visvavidyalayam, Hyderabad. During her session, she has focused on sustainability and emphasised the value of science education.

The keynote address on the subject of "Green Chemistry for Sustainable Development" was delivered by Professor Ch. Subrahmanyam, Department of Chemistry, IIT Hyderabad. He has



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given a vivid description on sustainable Chemistry, uncovering novel methodologies and practices that promise a reduced environmental impact and heightened resource efficiency.

The Technical Session-I, was conducted by Dr. S. Prasanth Kumar, a renowned scientist at CSIR IICT, on the topic “Nanotechnology Fundamentals, Techniques and Applications”. He engaged the audience with lucid explanations about the prospects and applications of Nanotechnology in Medicine, Electronics & Energy production.

The Technical Session-II, was addressed by Dr. Narendra Kurra, Assistant Professor, Department of Chemistry, IIT-Hyderabad, on the topic “Electroanalytical Techniques”. The session offered a comprehensive understanding of the latest advancements in analysing and characterising materials at the molecular level.

Objectives:

- To provide participants with a comprehensive understanding of the latest developments in Sustainable Chemistry, Nanotechnology, and Electroanalytical methods through expert presentations and discussions.
- To motivate students towards higher education in sciences and instigate passion towards research.
- To foster collaboration and networking among participants, encouraging the exchange of ideas and experiences to stimulate potential interdisciplinary research and innovative projects.

Outcomes:

- The seminar proved to be immensely enriching, providing a wealth of knowledge to all the participants in the branches of Green chemistry, Nanotechnology, and Electroanalytical techniques.
- The seminar will result in strengthening professional connections among participants, paving the way for future collaborations and partnerships in research, academia, and industry.

The seminar was thought-provoking, and immensely enriching for all the participants. We received splendid feedback from all the participants. The link for the feedback is given below.

https://drive.google.com/file/d/1_x2UgzScR4IqS86XFVsghXnef9QbJUr/view?usp=sharing



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Pictures:



Inaugural - lighting of the lamp



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Chief guest, Professor M. Vijjulatha



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Professor Ch. Subrahmanyam



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Dr. S. Prasanth Kumar



Dr.

Narendra Kurra



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Dr. Narendra Kurra along with SFC faculty and students