

## DEPARTMENT OF CHEMISTRY

### REPORT OF THE YEAR 2024 – 25

The Bishop Cotton Chemical Society was inaugurated on 19<sup>th</sup> September 2024. The following Office bearers were sworn in by Dr. Shashidhar Bharadwaj S, Assistant Professor, Department of Chemistry, M.S. Ramaiah College of Arts, Science and Commerce, Bengaluru.

Martha V Livingston	III BSc	President
Harshini	II BSc	General Secretary
Harini	I BSc	Joint Secretary
Zaina Imran	III BSc	Treasurer

Dr. Shashidhar Bharadwaj S delivered an inaugural talk on **“Drug Discovery”** on 19<sup>th</sup> September 2024. Around 3 faculty and 64 students participated in the program.



**Dr. Shashidhar Bharadwaj S delivering talk on drug discovery**



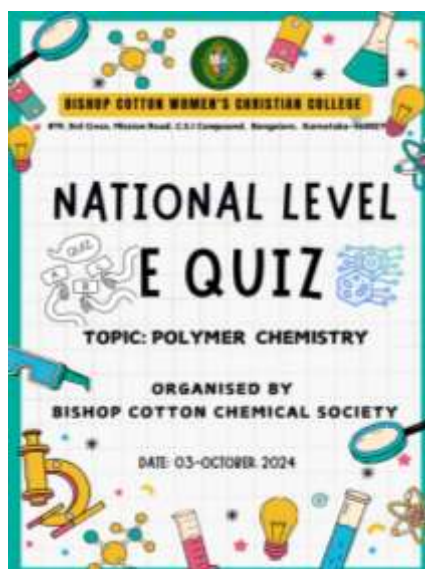
**Resource person, Faculty from the Department of Chemistry and the sworn office bearers of Bishop Cotton Chemical Society**



**BSc students actively participated in the guest lecture on drug discovery.**

### **Inter-Collegiate Chemistry Competition**

A National Level e-quiz competition was organized on the topic – Polymer Chemistry on 3<sup>rd</sup> October 2025. Students' creativity was tested with the present chemistry concepts and the usage of technology.



### Guest lecture delivered as Resource person

Mrs. Sarala Sonia, Head, Department of Chemistry delivered a talk on “**Applications of Radioactivity in Biological Science**” during the inter-departmental guest lecture organised by the Department of Zoology on 19<sup>th</sup> November 2024 at Zoology lab.



**Mrs. Sarala Sonia delivering a talk on applications of radioactivity.**

### Field Trip

The Department of Chemistry in collaboration with the Department of Life Sciences conducted a field visit to **Indian Institute of Horticultural Research**, Ivar Kandapura, Bengaluru on 21<sup>st</sup> November 2024. Around 110 students and 7 faculty members participated in the visit.





An **inter-collegiate competition – Flash the Chem Flask** (Identify, Connect, Remember and Solve) was conducted on 3<sup>rd</sup> December 2024 during the inter-collegiate fest Disha 2024 – 2025. Five brilliant teams participated actively in the event.



**Prize winners and Judges of the event Flash the Chem Flask.**

A Laboratory visit to Chariton Research Institute Private Limited, Yeshwanthpur, Bengaluru on 11<sup>th</sup> December 2024. Around 16 students from II & III BSc were prioritized to take part which could benefit them to find internships and other minor projects. The institute provided an insightful explanation ON working of microbiology instrumentation lab, environment protection and pollution control lab and other instruments like spectrophotometers, densitometer, digital viscometer, Atomic absorption spectroscopy and so on.







### **Students learning principle and procedure for handling instruments required for chemical research**

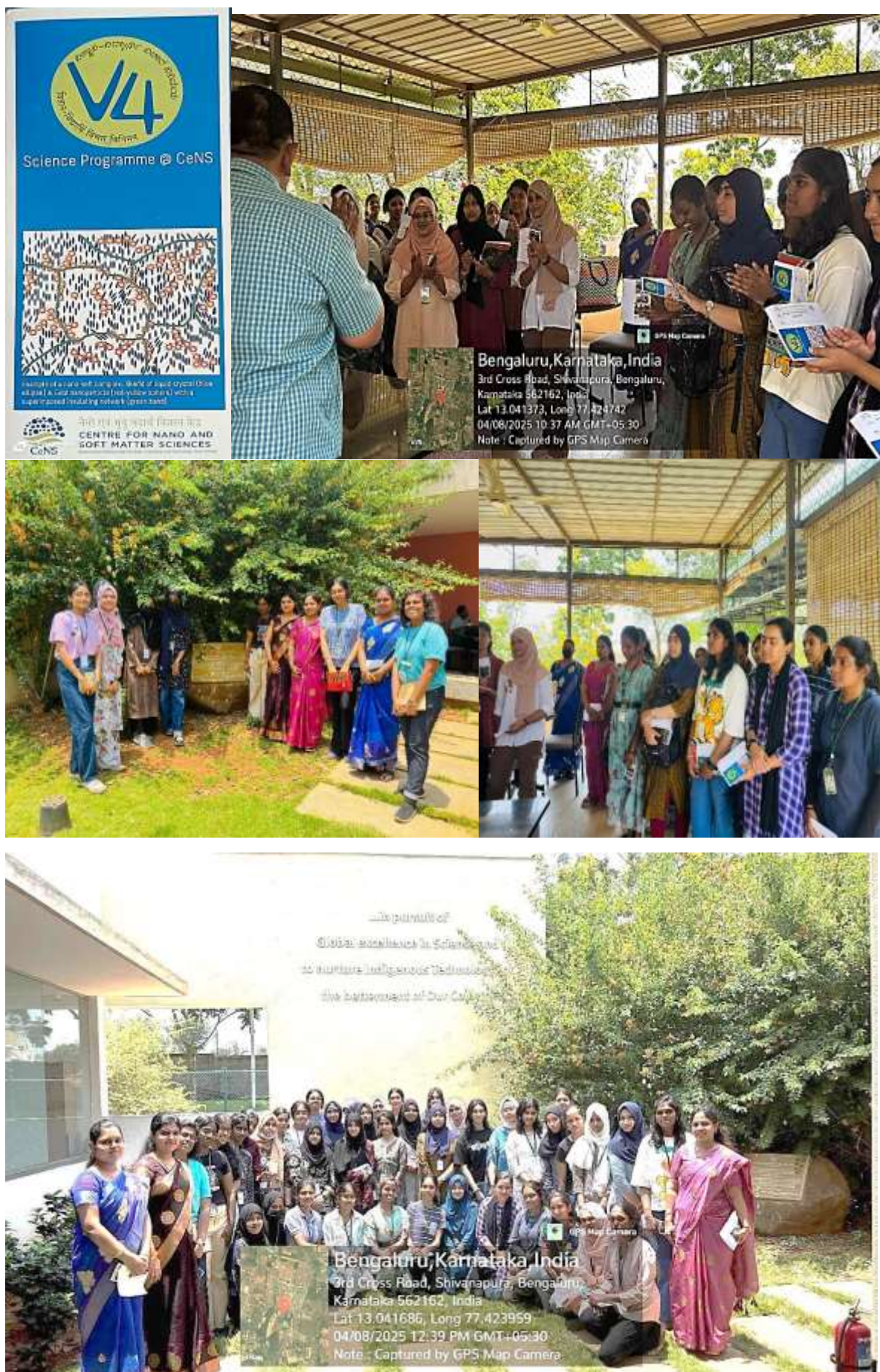
A laboratory visit to Centre for Nano and Soft matter sciences (CeNS), Shivanapura, Karnataka on 8th April 2025. 42 students from I, II and III B.Sc and three faculty members attended the lab visit. CeNS is a part of IISc and it is the only reputed and sophisticated centre for Nano science in India. This lab visit helped the students to learn the characterization and instrumentation involved in the field of chemical research.

The Centre organises a V4 programme called Vignani – Vidhyarthi Vichara Vinimaya for all UG and PG students to bring awareness and cultivate the habits of research in the field of nanoscience. This opportunity is given only for 16 to 18 selected colleges once in two years where students are allowed to visit restricted instrumentations and confidential areas of the laboratory.

The lab visit started with a brief introduction and history about CeNS campus and also about the importance of nanoscience by Mr Deepak, Public Relation Officer, CeNS. The students have gained knowledge about microscopy such as Atomic Force Microscope, Field Emission Scanning Electron Microscope, Optical Fluorescence Reflection Microscope and Polarizing Microscope. Spectrometers such as FT-IR, UV-Visible, UV-Visible-NIR, Circular Dichroism and equipments like CHNSO Elemental Analyser, Laboratory Centrifuge. X-ray Diffractometer and Single Wavelength Mill Imaging Ellipsometry.

The lab visit was followed up by a lunch and a guest lecture by a woman eminent scientist named Dr. Neena S John, Senior Researcher, CeNS. Dr. Neena delivered an impactful talk on the definition, principle, instrumentation, importance of Nano Science and its applications in various fields.





**A group picture of BSc Chemistry students with faculty at CeNS**







## Chemistry students and faculty at the CeNS campus

An inter-class online science creative writing competition was conducted on 1<sup>st</sup> May 2025 on the topic **“Is the Earth getting Greener Every day?” – Validate as a protective agent of Green Planet**, in observance of Earth day celebrated on April 22<sup>nd</sup> every year. Around 15 students took part in the event.



### Mentoring activities:

Online based Chemistry related modern topics and Internship using Information and Communication Technology were shared with advanced learners for academic enrichment, improve communication and presentation skills. Special coaching classes, remedial classes and revision tests were conducted for slow learners.

### Faculty Profile

**Name of the faculty: Mrs. Sarala Sonia**

Attended One day State Level Symposium on **Recent Trends in Active Pharmaceutical Ingredient Landscape (ReTAP - 2024)** organised by the Postgraduate Department of Chemistry in collaboration with Vidhathri Academy and an IQAC initiative by BMS College for Women on 19th July 2024, Bengaluru.

### Positions held

1. Member, Board of Examiners, B.M.S College of Women, Autonomous, Bengaluru.
2. Paper Setter – B.M.S College of Women, Autonomous, Bengaluru.
3. Evaluator – Bengaluru City University
4. External examiner – Practical exams - Bengaluru City University

**Name of the faculty: Mrs. Vidya S G**

Attended One week Faculty Development Programme on Advancing Institutional Excellence Through Research, Teaching and Administrative Services Organised by IQAC, APS College of Arts and Science held from 12.02.2025 to 18.02.2025.