

5 Day Faculty Development Program (FDP) On Recent Trends in Chemistry

Organised by : Department of Chemistry, School of Advanced Sciences (SAS)

Date : 19th - 23rd June 2023 (Monday to Friday)



E-Certificate
for participation



Registration link:

<https://vtop1.vitap.ac.in/RTC/Conferenceinitial>

Last date for Registration : 18th June 2023

About University

With a history of 39 years of innovation in the educational and research domain, VIT has been a forerunner in delivering quality education. Consistently ranked among the top educational institutes in the country, the VIT group of institutions have had a proud tradition of pursuing knowledge and excellence. In keeping with this tradition, the leadership at VIT-AP University resonates a dynamic blend of academic initiative and industry partnership with a vision of creating one of the finest academic destinations in the world. The VIT-AP campus, poised to become one of the country's best campuses, offers several avenues to explore your interests, identify core competencies, and engage in an evolving lifecycle of education and growth.

About the FDP

The purpose of this faculty development program is to provide information and knowledge on recent research advances and scopes in diverse fields of chemistry research. Eminent dignitaries from various prestigious organizations such as IITs, TIFR, and renowned industries (national and international) will deliver lectures and demonstrated some practical aspects of multiple commonly used instruments and software. Demonstration of analytical techniques including NMR, Powder XRD, single crystal XRD, molecular modeling, docking studies are some key points participants will be listening on. Discussion to explore and identify common avenues of interaction between academia and industry will also take place.

FDP Objectives

1. To disseminate the knowledge of various new aspects of chemistry among faculty members
2. To discuss the current status of the new age technologies development and research advances on different branches of chemistry and their application.

FDP Topics

1. Organic Chemistry
2. Inorganic Chemistry
3. Computational Chemistry
4. Material Chemistry
5. Environmental Chemistry
6. Drug Development Process
7. Demo of Powder and Single Crystal XRD
8. Demo of NMR

Who should Attend: Faculties, Research scholars, Members from Industry and Government Organisations.

E-Certificate: A Certificate of participation will be awarded to each registered participant after successful completion of FDP.

Venue: (Online over MS Teams)

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FDP Dates

Last Date for Registration: **18th June 2023**

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Program Schedule Details:

Morning

Afternoon

**Day-1
(Monday)
19th June 2023**



Inaugural Session

Dr. Ajay Jha

Lead-DEW, Global Engagement, ACS Publications
Title of the talk: Effective manuscript writing
ACS resources available for the benefit of faculty members
Time : 09:00 am - 10:00 am



Dr. Shrikant Kunjir

Title of the talk:
Application of NMR Spectroscopy in
Organic Chemistry
Time : 02:00 pm - 04:00 pm



Prof. Rajkumar Banerjee

Chief Scientist
CSIR-Indian Institute of Chemical Technology, Hyderabad
Title of the talk:
Cationic lipid conjugates of nuclear hormones, vitamins etc.: A new
concept in anticancer therapy and nanotechnology
Time : 10:00 am - 12:00 noon

**Day-2
(Tuesday)
20th June 2023**



Prof. C. P. Rao

Professor
Department of Chemistry
Indian Institute of Technology Tirupati
**Title of the talk: Inorganic - Protein Hybrid
Nano-Materials: A smooth entry into their
multitude application domain**
Time : 10:00 am - 12:00 noon



Dr. Ganpathi Emandi

Analytical Development Chemist IPSEN, Ireland
**Title of the talk: Analytical method development and
validation: prospectives in research**
Time : 02:00 pm - 04:00 pm

**Day-3
(Wednesday)
21st June 2023**



Dr. Ganesan Prabu Sankar

Professor
Department of Chemistry, Indian Institute
of Technology Hyderabad
**Title of the talk: Why Do We Still Need the Blue
Light Emitting Materials?**
Time : 10:00 am - 12:00 noon



Prasit Dutta

Chief Technical Officer.
**Title of the talk: Revolutionizing Energy Storage: Ultra-Safe
Lithium-Ion Battery Cells for a Sustainable Future.**
Time : 02:00 pm - 04:00 pm

**Day-4
(Thursday)
22nd June 2023**



Dr. Jagannath Mondal

Associate Professor, TIFR Hyderabad
Title of the talk:
Computational Chemistry and Molecular Modeling:
Computational Microscope at the Interface of Physics, Chemistry and
Biology for Studying Chemical and Biomolecular Processes.
Time : 10:00 am - 12:00 noon



Dr. Md. Ataul Islam

Senior Computational Chemist (Team Manager)
3BIGS OMIScore
Title of the talk:
Screening of Molecular Databases for Lead-like Molecules
identification: A Pharmacoinformatics Approach
Time : 02:00 pm - 04:00 pm

**Day-5
(Friday)
23rd June 2023**



Dr. K. V. George

Chief Scientist & Head
CSIR-National Environmental Engineering
Research Institute
Title of the talk: Air Pollution related to Thermal Power Plant
Time : 10:00 am - 12:00 noon



Dr. Ravikumar Iyyamperuma

Application Manager,
India & Middle East BAXS Division
Base – Sales &CS, (BAXS)



Dr. Prathapa Siriyara Jagannatha.

Product Manager and Application
Scientist Single Crystal-XRD
Title of the talk:
X-ray diffraction and its applications
Time : 02:00 pm - 04:00 pm



Dr. Dharmendra Gupta

Senior Scientist (I2)
Dr. Reddy's Laboratory
Title of the talk: Process for drug development
Time : 04:00 pm - 05:00 pm

**Valedictory Session
(5.00-5.30 PM)**

About Chemistry Department:

Department of Chemistry offers M. Sc. Chemistry program at VIT-AP University. This programme provides ample opportunities for the students to choose courses from a broad spectrum of cutting-edge areas in addition to fundamentals of organic, inorganic, physical, analytical and computational chemistry. Sessions on improving technical skills, scientific writing, oral presentations and research expertise have been incorporated in the curriculum. Furthermore, the students will have the scope to pursue their post-graduation thesis work at various national and international institutions and industries. Overall, by integrating the in-depth core and elective courses, and research work, instructed and guided by highly qualified and well-experienced faculty members, students will gain the foundation and skill to advance their careers in higher studies and industry.

Programs Offered:

- M.Sc. Chemistry in collaboration with Mitsui Kinzoku Components India Pvt. Ltd. (MKCI)
- M.Sc. Chemistry
- M.Sc. Chemistry (Specialization in Pharmaceutical Chemistry)
- M.Sc. Chemistry (Specialization in Analytical Chemistry)
- Ph. D. Chemistry
- More than 90% students have secured internships in reputed industries and academia including Zifo, Aurobindo Pharma, Cipla, Mitsui Kinzoku Components India Pvt. Ltd., Microlabs Pvt Ltd, Tina Life Science (through RSC), Cresen Solutions, LatentView Analytics, IIT, IISc, NIT, ICT, JNCASR etc.
- Global collaborations with various reputed academic, research institutes and industries
- Majority of our students from the M. Sc. Programs got placed in reputed companies and have received offers for higher studies from foreign universities
- Diverse mix of national and international students

Facilities at Chemistry Department , VIT-AP University



Areas of Innovation and Research:

- Nanomaterials
- Organic Chemistry
- Energy materials
- Environmental Chemistry
- Inorganic Chemistry
- Physical Chemistry
- Biovaccination
- Computational chemistry
- Materials chemistry

Research at VIT-AP:

VIT Fellowship for PhD students	GATE Qualified (Above 60% in PG)	Others
First Year	Rs. 31,000/Month	Rs. 25,000/Month
Second and Third Year	Rs. 35,000/Month	Rs. 31,000/Month

- Raman Research Award up to 1 lakh for publications exclusively for research scholars
- Contingency amount of Rs. 10,000 per year for all Scholars
- Open access research publication support for Q1 and Q2 Journals
- Financial support for attending conferences/workshop/training etc.
- Five external funded projects (More than Rs. 70 lakhs)
- More than 20 projects funded by the university to the SAS faculties and students
- The department has more than 20 faculties, all with Ph. D.s and Postdocs from top-tier global universities

Registration fee for outside participants: Research Scholar: Rs. 200, Faculty: Rs. 500
Industry Person: Rs. 1000, (No Fee for VIT-AP Rsearch scholars and Faculties)

Co-ordinators

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School of Advanced Sciences (SAS)

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