Five-Day Online Faculty Development Programme (FDP)
on

Advances in Synthetic Organic Chemistry and Their Applications in Modern Medicinal Chemistry (ASOCAMMC21)

23rd - 27th August 2021

Call for Registration and Participation
Last date: 20th August, 2021

Sponsored by NIT Calicut

Coordinators
Dr. Janardhan Banothu
Dr. G. Unnikrishnan

Organized by
Department of Chemistry
National Institute of Technology Calicut
NIT Campus P.O., Kozhikode – 673601
Kerala, INDIA

About NIT Calicut

National Institute of Technology Calicut, formerly known as REC Calicut, was established in 1961. Over the years, it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 13 departments offering ten undergraduate and 30 post-graduate programmes besides doctoral programmes. Faculty members in various departments have active collaborations with universities and industries. It is a fully residential campus sprawling over 300 acres with excellent infrastructure. For details visit the website: www.nitc.ac.in

About the Department

The Department of Chemistry was established in the year, 1961, as an integral part of the REC Calicut. Since its inception, the department is greeted as one of the most academically active departments in the institute. The department offers chemistry course to all engineering branches and a two years' post- graduate course. The department has been conducting cutting-edge research in contemporary topics of Organic, Inorganic, Physical and Materials Chemistry. In the department, various state-of-the-art facilities such as 500 MHz NMR, HRMS (being set up), FTIR, UV-vis-NIR, fluorescence, *etc*. are available. The department is also actively involved in conducting international conferences, and FDPs for science and academic professionals.

Overview of the FDP

Organic chemistry plays a key role in modern civilization, touching all fields of human life. It assists us to design and develop molecules which are being effectively utilized by all branches of science and engineering, and medicine. It contributes to solve many problems being faced by the world today, and to improve the quality of life for tomorrow. This is particularly true in the days of Covid-19 pandemic as the drugs being proposed are derived through the meticulous protocols in organic chemistry. According to the statistics, more than 85% of all biologically active chemical entities contain at least a heterocycle. Recently, several heterocyclic compounds have been reported as immune modulators and a few of them have been found as potent vaccine adjuvants which are crucial in the present pandemic to improve the efficacy of vaccines. The cutting-edge advances in engineering and medicine occurring now through organic chemistry involves new generation conducting materials, light emitting diodes, solar cells, and modern day drugs. The proposed FDP shall assist the participants to understand the novel synthetic strategies in organic chemistry which enables the precise design of molecules for specific applications. It shall highlight various characterization strategies. It shall also present the impressive achievements of heterocyclic chemistry for technological advancements, with a special thrust to medicinal chemistry.

Objectives of the FDP

- To understand the role of organic chemistry and medicinal chemistry in modern day engineering, technology and medicine
- To gain the knowledge about various techniques in synthetic organic chemistry
- To understand the basic principles of organic molecules as vaccine adjuvants

Topics being covered

This programme will cover the following topics:

- Advanced techniques in synthetic organic chemistry
- Fundamentals of medicinal chemistry
- Applications of organic molecules in the field of medicinal chemistry and materials' chemistry
- Discovery and development of organic molecules as vaccine adjuvants

Organizing Committee

Dr. A. Sujith, HoD, NIT Calicut
Prof. Lisa Sreejith, NIT Calicut
Prof. Lakshmi C., NIT Calicut
Dr. Parameswaran P., NIT Calicut
Dr. Suni Vasudevan, NIT Calicut
Dr. Mini Mol Menamparambath, NIT Calicut
Dr. Muniyandi Sankaralingam, NIT Calicut
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Dr. Anuj A Vargeese, NIT Calicut
Dr. Chinna Ayya Swamy P., NIT Calicut
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Resource Persons

Dr. S. Sankararaman, IIT Madras
Dr. Edamana Prasad, IIT Madras
Dr. Irishi N. N. Namboothiri, IIT Bombay
Dr. Akkattu T. Biju, IISC Bangalore
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Dr. Mukesh Pasupuleti, CSIR-CDRI
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Dr. Dhurke Kashinath, NIT Warangal
Dr. Udaya Kumar Dalimba, NIT Surathkal
Dr. Deepak B. Salunke, Panjab University
Dr. Yupeng Li, University of Minnesota, USA
Dr. Soney Varghese, NIT Calicut
Dr. Raju Dey, NIT Calicut

Who should attend?

The programme is open to all NBA and AICTE approved engineering/polytechnic college teachers, all university teachers, degree college lecturers, UGC college teachers, +2 teachers, research scholars and P.G. students. The number of participants is approximately 100 (not more than 120) and the selection will be based on a priority basis.

Registration Fee Details

- Faculty : Rs. 2655/-
- PhD Students : Rs. 590/-
- PG Students : Rs. 295/-
- Industrial Personnel : Rs. 5310/-

(The registration fee is inclusive of 18% GST)

For registration, fill the online form at
https://bit.ly/3r0ScQM

The registration fee has to be paid through online transfer. The bank details are given below

Account Name : Director, NIT Calicut, Continuing Education Programme

- **Account No. : 37618269594**
- **IFSC Code : SBIN0002207**
- **MICR Code : 673002012**

UPI payment: Kindly Mention "ASOCAMMC21"

The QR code can also be used for registration.

Confirmation of Registration

Eligible participants (on receipt of the registration form along with the proof of payment of registration fee) will be intimated by mail on or before 20th August, 2021.

Certification Criteria

- On completion of the programme on all the days, the participants will be awarded an E-Certificate of participation.
- Minimum 70% attendance at the end of the FDP is compulsory for the certification.

For Queries (Coordinators):

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