

FDP/Short term course (two weeks) on Handling of Analytical Instruments in Basic/Life Sciences



**Central Instrumentation Facility (CIF)
Jamia Millia Islamia**

**Jan 13 to 24, 2020 (Life Science)
Feb 03 to 14, 2020 (Basic Science)**

<https://www.jmi.ac.in/cif>

Overview

This program will train participants to operate the system, interpret results, prepare the sample, and basic maintenance of the sophisticated analytical instruments in the field of material sciences. This training program will focus more on handling of sophisticated instrument with glimpse of theoretical concepts, specific methodologies and, sample preparation and loading for obtaining useful results & as well key aspects of interface software.

List of equipment for Basic Science Course

- X-Ray Diffractometer (Rigaku, Ultima IV)
- DSC / TGA / DTA (SETARAM Instrumentation, France)
- LC-MS/MS (Waters, Xevo TQD, ACQUITY UPLC-H PLUS)
- Raman Spectroscopy (Renishaw, Invia Reflex)
- FTIR (Bruker, Tensor 37)
- DLS (RiNA GmbH, Laser – Spectroscatter 201)
- Zeta Potential/Particle Size Analyzer (Malvern, NanoZS)
- Fluorescence Spectrophotometer (Agilent, Cary Eclipse)
- UV-Visible Spectrophotometer (Hitachi U3900)
- Contact Angle Analyzer (S.E.O., Phoenix 150)
- Inductively Coupled Plasma Optical Emission Spectroscopy

List of equipment for Life Science Course

- Flow Cytometer (BD, FACS Aria III)
- LC-MS/MS (Waters, Xevo TQD, ACQUITY UPLC-H PLUS)
- qRT-PCR (Applied Biosystem, 7900HT)
- Stopped-Flow Spectrometer (Applied Photophysics, SX-20)
- Zeta Potential/Particle Size Analyzer (Malvern, NanoZS)
- DSC / TGA / DTA (SETARAM Instrumentation, France)
- Fluorescence Spectrophotometer (Agilent, Cary Eclipse)
- UV-Visible Spectrophotometer (Hitachi U3900)
- Confocal Microscope (Leica, SP8, inverted/upright)
- Time Resolved Fluorescence Lifetime Measurement Spectrometer

Who Should Attend

The person who wants to have an expertise in the state-of-the-art analytical instruments widely used in industry and academia.

Prerequisites

Participant should have at least graduation in Basic/Life Science.

Instructor

Professors with expertise in the field, Industry expert, and Technical working staff of CIF.

Accommodation

On the campus shared accommodation may be provided on paid basis and on the first-come, first-served basis. Accommodation expenses and travel arrangements should be borne by the participants.

Terms & Conditions

- 5 % Service Tax (if applicable).
- Registration confirmation will be given to the candidate upon receipt of payment.
- Last date for registration: 7 business days prior to the course's start date.
- JMI will provide the necessary study materials to all the participants. Lunch and tea will be served on all days of the program.
- All Demand Drafts must be drawn in favour of *The Registrar, Jamia Millia Islamia*, payable at New Delhi.
- All practical training will be provided only on the analytical instruments available at CIF

Course Fee and Batch size

Rs. 10,000/- per participant, and 20 candidates per batch

Note

- Each attendee will receive a *Certificate* from the institution.
- This may be equivalent to a Faculty Development Program

Cancellation Policy

For maximum effect, courses are run with small numbers of candidates. Course cancellation by the participant will carry a surcharge. Course cancellation by the participant within two business days prior to the course's start date will incur 100% of the course fee.

Location

Central Instrumentation Facility (G-15)
S. Ramanujan Block, Gate No. 23
Mujeeb Bagh, Jamia Nagar
New Delhi – 110 025
Ph. No.: +91-931-550-7723 E-mail: cif@jmi.ac.in



For Registration: Scan QR Code