

DST-SERB ACCELERATE VIGYAN KARYASHALA

on

Familiarization with Hands-on Training on Advanced/Analytical Equipment

(Sponsored by Department of Science and Technology - Science & Engineering Research Board, GOI)

April 19-25, 2024



Organized by

**Department of Chemistry
Dayalbagh Educational Institute
(Deemed to be University)**

Dayalbagh, Agra-282005, Uttar Pradesh (INDIA)

Event Organizer

Prof. Rohit Shrivastav

Head, Department of Chemistry

Event Coordinators

Dr. Ranjit Kumar, Dr. Aparna Satsangi



ABOUT THE INSTITUTE

Established in 1915, Dayalbagh Educational Institute (DEI) is today a 'Deemed to be University', known world over for its unique academic programmes, starting from kindergarten to doctoral research. The Institute enjoys a high national and international reputation for its quality teaching, research and outreach programmes. It is located amidst the tranquil environs of Dayalbagh, on the outskirts of the historic city of Agra. With a vibrant, active and diverse scientific community, DEI is a leading center for dissemination and application of knowledge in the natural sciences and technology. Additionally, the Institute has been making relentless efforts in providing employment-oriented education to women, other weaker sections of society and the tribal populace, by providing vocational training-based education. Department of Chemistry in the Faculty of Science at DEI works with the objective of imparting up-to-date knowledge in modern cutting edge areas of Chemistry, with imbedded inter-disciplinary and social elements.

ABOUT THE WORKSHOP (KARYASHALA)

Chemical analysis and characterization of prepared samples on sophisticated and high-end equipment is one of the prerequisites for quality research in Chemical Sciences. The Department of Chemistry (DST - FIST Sponsored) at DEI is equipped with a wide range of sophisticated instruments/systems, viz. Field Emission Scanning Electron Microscope, X-ray Diffractometer, Gas Chromatograph - Mass Spectrometer (coupled with Thermal Desorption Unit), Inductively Coupled Plasma Optical Emission Spectrometer, Thermo-gravimetric Analyser & Differential Scanning Calorimeter, Gas Chromatograph, Online Analyzers for atmospheric O₃ and NO_x, Ion Chromatograph, and Zeta Sizer, for qualitative and quantitative analysis and characterization of samples. The Department has a long tradition of quality research in emerging and socially relevant areas of Chemical Sciences. The Workshop (Karyashala) on 'Familiarization with Hands-on Training on Advanced Analytical/Characterization Equipment' is sponsored by DST-SERB, Govt. of India, and aims to impart training cum hands-on experiences to young researchers (PhD and Post-graduate students) on sophisticated equipment used in chemical analysis.

INSTRUMENTAL TECHNIQUES TO BE COVERED

- Field Emission - Scanning Electron Microscope (FESEM)
- X-ray Diffractometer
- Inductively Coupled Plasma Optical Emission Spectrometer
- Gas Chromatograph – Mass Spectrometer
- Thermo-gravimetric Analyser & Differential Scanning Calorimeter
- Ion Chromatograph
- UV-Visible Spectrophotometer
- Aethalometer
- Zeta Sizer





OBJECTIVES

To familiarize the participants with better understanding and acquaintance on principles, operations and applications of listed instruments in cutting-edge researches in the fields of materials science, atmospheric chemistry, surface chemistry, biofuel studies, and drug designing.

PROGRAMME FACULTY/RESOURCE PERSONS

Eminent scientists, faculty members, and technology experts, from academia and industries would be involved to conduct lectures and laboratory-training sessions.

ELIGIBILITY OF PARTICIPANTS

Ph.D. and Post-graduate Students actively pursuing research (25 participants will be selected on the basis of well laid out criteria for selection).

AWARD OF CERTIFICATE

On successful completion of the Workshop (Karyashala), participants will be awarded with Participation Certificate.

BOARDING AND LODGING

Outstation participants will be provided train-fare (AC III Tier) for travel from their work-place by the shortest route, and accommodation (on sharing basis). No accompanying person is allowed.

REGISTRATION

Interested candidates are required to register (free of charge) on or before February 20, 2024, through Google Form Link: <https://forms.gle/bKCBevTWvkWVqiZc6> by uploading their application (on a plain paper) along with bio-data, duly signed by the Recommending Authority/Head of the Department/Institute. Selected candidates will be informed about their selection by email/phone, for which candidates must provide their valid E-mail IDs and phone numbers in their application. Selected candidates will have to acknowledge and accept the offer for participating in the workshop through return email (within 2 days), failing which they will forfeit the chance and their seat will automatically be offered to waitlisted candidates.

Last date for Registration: April 2, 2024

Intimation of selection: April 4, 2024

Confirmation of participation by candidates: April 6, 2024

Workshop (Karyashala) dates: April 19-25, 2024





Patron

Prof. C. Patvardhan

Director

Dayalbagh Educational Institute, Agra

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