



गुजरात केन्द्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF GUJARAT



सत्यमेव जयते

विज्ञान एवं
प्रौद्योगिकी मंत्रालय
MINISTRY OF
SCIENCE AND
TECHNOLOGY

Hands-on Workshop on Advanced Characterization of Nanomaterials

Supported by
Department of Science and Technology, New Delhi

23rd-24th September 2023

Organised by



School of Nano Sciences &
Central Instrumentation Facility (CIF)
Central University of Gujarat

Convenor

Dr. Charu Lata Dube

Co-Convenor

Dr. Hitesh Kulhari

Dean: Prof. Pallavi Sharma

About Central University of Gujarat

The Central University of Gujarat (CUG) was established by Parliament of India through the Central Universities Act (2009). The primary objectives of CUG are dissemination and advancement of knowledge by providing instructional and research facilities in various branches of learning, making special provisions for integrated courses in humanities, social sciences, science and technology in educational programmes, taking appropriate measures for promoting innovations in teaching-learning methods and interdisciplinary training and research, educating and training human resource for the country's development, establishing academic-industries partnership to promote advancements in science and technology, paying special attention to the improvement of social and economic conditions and welfare of the people, especially pertaining to their intellectual, academic and cultural development.

About School of Nano Sciences

School of Nano Sciences (SNS) was earlier established as Centre for Nano Sciences in 2012. Later, it was upgraded to School of Nano Sciences in 2016. The thrust area of research at SNS are energy storage devices, rechargeable batteries, glasses for energy applications, advanced nanomaterials for environmental applications, drug delivery and nanomedicines, nanomaterials for catalysis, water purification, biosensors.

About Central Instrumentation Facility (CIF)

The CUG has established CIF for catering research needs of all the School working towards sciences. It includes P-XRD, SC-XRD, AAS, CHNS/O, HPLC, GC, LC/MS-QTOF, FTIR, BET, ICP-OES, Spectroscopic Ellipsometer, FT-NMR, DLS, SEM, SECM, AFM, ESCA, Ozonolysis, HR-TEM, TG/DTA, GPC, Potentiostat, UV-Visible Spectrophotometer, Porosimeter, Polarimeter, TOC, FACS, PCR RT-PCR, MALDI-TOF, Confocal Laser Scanning Microscope, Fluorescence microscope, DNA Sequencer, FPLC.

Overview of the program

The main theme of this workshop is to familiarize the participants with characterization techniques such as XRD, NMR, AFM, TG/DTA etc. The workshop includes theory lectures (hybrid mode) as well as demonstration/hands-on training session (offline mode).

General Instructions

This hands-on workshop is funded by DST. The registration is free. Faculties from **state of Gujarat (only)** can register. TA by public transport will be provided. Accommodation will be provided on first come first serve basis.

Registration

To register for the training program, fill google form.

Google form link: <https://forms.gle/h3y3CU7PAvmBBhbD6>

Contact person: **Dr. Charu Lata Dube**; Email: charulata.dube@cug.ac.in



PATRON

Prof. Rama Shankar Dubey
(Hon. Vice Chancellor)



CHAIR

Prof. Pallavi Sharma
(Professor and Dean (I/C))

Expert Lectures

- **Dr. Asha Bhardwaj**, Assistant Professor, Department of Instrumentation and Applied Physics, Indian Institute of Science (IISc), Bangalore.
- **Dr. Dheeraj Kumar Singh**, Associate Professor, School of Nano Sciences, Central University of Gujarat (CUG), Gandhinagar.
- **Dr. Umesh Kumar**, Associate Professor, Department of Nutrition Biology, School of Interdisciplinary and Applied Life Sciences, Central University of Haryana (CUH), Mahendergarh.
- **Dr. Pawan Kumar Kulriya**, Associate Professor, School of Physical Sciences, Jawaharlal Nehru University (JNU), New Delhi.
- **Dr. Panchami Prabhakaran**, Assistant Professor, School of Chemical Sciences, Central University of Gujarat (CUG), Gandhinagar.
- **Dr. Arvind Ananthanarayanan**, Process Development Division, Nuclear Recycle Group, Bhabha Atomic Research Centre (BARC), Mumbai.
- **Dr. Deepak Verma**, Associate Professor, School of Nano Sciences, Central University of Gujarat (CUG), Gandhinagar.