

ABOUT BBAU:

Babasaheb Bhimrao Ambedkar University was established by an Act passed by the parliament (No. 58 of 1994). The University came in to existence on 10.01.1996 vide GOI, Ministry of HRD, Education Department Notification No. 8-16/GOI/desk/U-1 dated 05.01.1996. The basic philosophy and policies of the University are spelt out and enshrined in the University Act and Statutes. The University offers graduate and post-graduate students the knowledge and skills needed to succeed as persons and professionals, and the values and sensitivity necessary to serve the society.

Objective:

This is a 7-day program aimed to provide hands-on training to the participants on DST funded instruments to promote the expansion of R&D Infrastructure at academic institutions by ensuring transparent access to S&T facilities. STUTI program is also intended to build human resources and its knowledge capacity through open access of S&T Infrastructure across the country. The main focus is to be on Scientists/ Professors/ PhDs and Post Doc Fellows actively involved in research across various institutions in the country.

Scope of the Workshop:

STUTI training includes both theoretical and practical sessions for in-depth knowledge of the instrument and its applications.

Faculty/experts will demonstrate their knowledge of the subject and give appropriate study material to participants, along with an introduction to the instrument's basic fundamentals.

Participants will use the lab facilities and also be allowed to bring their research samples for examination/characterization from the existing S&T facilities.



**BABASAHEB
BHIMRAO
AMBEDKAR
UNIVERSITY**



LUCKNOW
प्रज्ञा शील करुणा
ESTABLISHED 1996

HANDS ON TRAINING ON

CHARACTERIZATION TECHNIQUES AND ADVANCE APPLICATION IN RESEARCH (MRS/ METABOLOMICS)

(7-days Training program)

Hosted By

Babasaheb Bhimrao Ambedkar University Lucknow
Department of Chemistry

Sep 22nd to 28th, 2022

under STUTI Program

(Synergistic Training program Utilizing the Scientific and Technological Infrastructure)

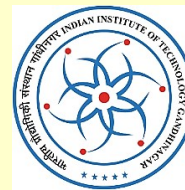
Department of Science and Technology,
Government of India, New Delhi

In collaboration with:

Indian Institute of Technology Gandhinagar



सत्यमेव जयते
Department of
Science and Technology

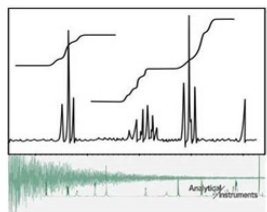


Chief Patron,
Prof. Sanjay Singh,
Vice-Chancellor, BBAU

Chairperson
Prof. Gajanan Pandey
Head, Department of Chemistry,
BBAU

Coordinator
Dr. Anjani Kumar Tiwari
Department of Chemistry, BBAU

List of Speakers



Tentative schedule of workshop

Session I + Welcome note + Introduction with Participants and Host Center	Session II + Basics of NMR and NMR Instrumentation
Session III + Structure elucidation using NMR spectroscopy	Session IV + 2D NMR & Applications for Small Molecules
Session V + NMR Based Metabolomics	Session VI + Hands-on experience and demonstration
Session VII + Analysis of different structures : small and large	Session VIII + Solving small molecule structures using NMR: A tutorial for young researchers
Session IX + NMR & drug discovery	Session X + MRI and in-vivo MRS
Session XI + Principal of BET Surface analyser	Session XII + Hands-on experience on BET
Session XIII + Characterization of different materials/polymers	Session XIV + Processing and Presentation of NMR/BET Data in different Applications

Registration Link: <https://forms.gle/tw2AB1KxZdDbJdeXA>

Venue: **Conference Hall, Old Administrative Building, BBAU Lucknow-226025, U.P**

Organizing Secretaries: Dr. Jyoti Pandey, Dr Shailesh Kumar, Dr Preeti Gupta & Dr Jawahar Lal

For further queries, feel free to contact us on: Email: stutidocbbaulko@gmail.com Website: www.bbau.ac.in

Outcome of the Workshop:

By the end of the workshop, the participants will be able to:

1. Practice good laboratory methods for sample preparation and its preservation.
2. Design of experiments for a thorough understanding of step by step manner.
3. Understanding the basic operations of the instruments and know-how to operate, troubleshoot along with maintenance of the instrument.
4. Critical evaluation of the experimental approaches and data analysis.

Registration Procedure:

- Interested candidates have to fill the online form (link given below) on or before **(08/09/2022)**.
- Candidates will be selected according to eligibility and available seats. The confirmation of selection will be communicated to the selected candidates by **(10/09/2022)** through email (stutidocbbaulko@gmail.com)

General Information:

- There is no registration fee
- Mode of the training program will be offline.
- Number of participants is limited to 50 and selection will be based on a screening process of their resume.
- Registration Kit, Course material and Certificate of participation will be provided to the participants.
- Local Hospitality: (Accommodation & Meal) will be provided. The train fare (AC 3-Tier) by shortest route will be reimbursed to the selected outstation participants.