



Seven Days of Workshop

on



ABCs of Infra-Red Spectroscopy, Nuclear Magnetic Resonance Spectroscopy, Electron Paramagnetic Resonance Spectroscopy, and Gaussian

1-8 August 2022

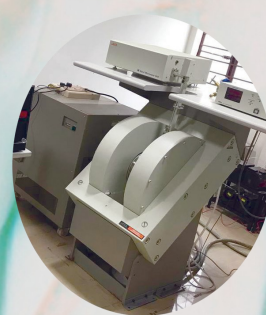
organized

by

Department of Chemistry
Manipur University
Canchipur - 795 003, Imphal, Manipur

under

Project Management Unit NIT Agartala
**Synergistic Training program Utilizing the Scientific
and Technological Infrastructure (STUTI)**
an initiative of Department of Science and Technology (DST),
Government of India



About the Workshop

The Department of Chemistry, Manipur University is organizing a workshop on *ABCs of Infra-Red Spectroscopy, Nuclear Magnetic Resonance Spectroscopy, Electron Paramagnetic Resonance Spectroscopy and Gaussian* which spans for seven days from 1st to 8th August 2022. The workshop focuses on imparting basics of the following spectroscopic and software tools which are routinely employed for research analysis in various areas of physical, chemical and biological sciences.

Infra-Red Spectroscopy (one day)

Nuclear Magnetic Resonance Spectroscopy (two days)

Electron Paramagnetic Resonance Spectroscopy (two days)

Gaussian (two days)

Fifty percent of the session in the workshop is planned for **hands-on training** and exposure to the above mentioned spectroscopic instruments and software. In order for quality interaction among the participants and experts, the workshop is limited to 30 participants only. The workshop is open for researchers and faculty who require the need to use the above techniques in their research works. It is also an opportunity to raise problems faced in their works and discuss during the workshop on how to tackle and solve those problems.

Chief Patron : **Prof. N. Lokendra Singh**

Vice-Chancellor
Manipur University

Patrons : **Prof. K. Yugindro Singh**

Dean
School of Mathematical & Physical Sciences, MU

Prof. L. Warjeet Singh

Director
Research & Development Cell, MU

Chairman : **Prof. O. Mukherjee Singh**

Head
Department of Chemistry, MU

Coordinators : **Dr. Francis A. S. Chipem** (+ 91-84159 23983)

Dr. Thongam Joymati Devi (+91-70853 41472)

Manipur University & the Host Department

Manipur University was established in 1980 at Imphal as a teaching-cum-affiliating university with territorial jurisdiction over the whole of the state of Manipur and it was upgraded to a central university in 2005. At present, the University has 108 affiliated colleges which include 2 medical colleges, 1 engineering college and 1 law college. The University is one of the leading central Universities in North Eastern region of the country with its campus spread over an area of 287 acres situated about 8 km from Imphal.

The Department of Chemistry is one of the major departments of the University since the establishment of the University with credible infrastructural facilities for advanced research in frontier areas of Chemistry and higher education offering MSc and PhD programmes. With the upgradation of the University into a central university, the department also gradually transformed itself from a pedagogical and teaching driven department into a research oriented one by cultivating and nurturing scientific talents of deserving students in terms of imparting chemical education scaling newer heights in all fronts as is evident from the quantum jump in the number of publications in peer reviewed journals of repute and the proportionate increase in the number of individual research projects sponsored by the DST, DBT, UGC, CSIR, etc. Besides, the Department has attracted good funding under the DST-FIST, UGC-SAP-DRS - I and UGC-SAP-DRS-II.

Advisors : **Prof. S. K. Srivastava**

Prof. R. K. Hemakumar Singh

Prof. Homendra Naorem

Prof. R. K. Lonibala

Prof. Nongmaithem Rajen Singh

Prof. R. K. Bhubon Singh

Dr. Keisham Surjit Singh

Dr. W. Rameshwar Singh

Members : **Dr. N. Shantibala Devi**

Dr. Th. Prasanta Singh

Ms. Ng. Florence

Contact: Department of Chemistry, Manipur University, Canchipur, Imphal - 795 003. E-mail: abc.workshop2022@gmail.com

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1-8 August 2022

Venue:



**Department of Chemistry
Manipur University**
Canchipur - 795 003,
Imphal, Manipur

Resource Persons:

Nuclear Magnetic Resonance Spectroscopy

Prof. L. Warjeet Singh

Department of Chemistry, MU

Prof. Homendra Naorem

Department of Chemistry, MU

Prof. O. Mukherjee Singh

Department of Chemistry, MU

Dr. Keisham Surjit Singh

Department of Chemistry, MU

Dr. Chandi Charan Malakar

Department of Chemistry, NIT Manipur

Gaussian

Dr. Thongam Gomti Devi

Department of Physics, MU

Dr. Shagolsem Lenin Singh

Department of Physics, NIT Manipur

Dr. Francis A. S. Chipem

Department of Chemistry, MU

Technical Support:

Dr. N. Shantibala Devi

Dr. Th. Prasanta Singh

Ms. Ng. Florence

Dr. Lokendrajit Nahakpam

How to Reach the Campus

Bir Tikendrajit International Airport lies 8 km away from Imphal city. One can reach Manipur University campus, which is about 9 km from Bir Tikendrajit International Airport, by taxi or auto services. There are daily flights that connect Imphal with Delhi via Guwahati and Kolkata. Imphal is connected by road with Dimapur by NH-2 and Silchar by NH 37. Jiribam and Dimapur are the nearest railheads for Manipur which are 225 km and 215 km away from Imphal, respectively.

Additional Information:

<https://www.chipem.net/events>

[DST-STUTI](https://www.dst-stuti.org)



STUTI



Important Dates

First Come First Serve

15 July 2022 : Last date of Application

20 July 2022 : Notification of Registration

- Notes:
1. Receipt of applications may be closed prior to the deadline of application if the seats are filled.
 2. Participants who need leave from their organizations and/or accommodation for attending the workshop may contact the coordinators in advance.
 3. TA with rate of Sleeper Class train fare of shortest route will be paid to the participants as per norms of DST.

Electron Paramagnetic Resonance Spectroscopy

Prof. R. K. Hemakumar Singh

Department of Chemistry, MU

Prof. R. K. Lonibala

Department of Chemistry, MU

Prof. Nongmaithem Rajen Singh

Department of Chemistry, MU

Prof. R. K. Bhubon Singh

Department of Chemistry, MU

Dr. Mithun Roy

Department of Chemistry, NIT Manipur

Infra-Red Spectroscopy

Dr. Thongam Gomti Devi

Department of Physics, MU

Dr. Thongam Joymati Devi

Department of Chemistry, MU

Dr. Nagarajan S.

Department of Chemistry, NIT Manipur

Accommodation

The accommodation for the participants will be arranged at the University Guest House and the charges for accommodation will be borne by the organizers.

Refundable Workshop Fee

Workshop fee has to be paid only after the notification of registration. Any payment before registration will not be refunded.

Students : Rs. 1,000/-

Academicians : Rs. 2,000/-

Industries : Rs. 2,500/-

The amount paid will be refunded to the participants at the end of the workshop.

Application

Applications are invited to be submitted online by filling up the form provided by the link or QR Code below:

<https://tinyurl.com/abcworkshop2022>

