

Chief Patron

Mr. Pankaj Agarwal
Chancellor

Mrs. Pooja Agarwal
Pro-Chancellor

Patron

Prof. (Dr.) A. K. Singh
Vice-Chancellor

Chairman

Prof. (Dr.) B. M. Dixit
Director, INSH

Convener

Prof. (Dr.) Krishna Srivastava
Dean, Faculty of Chemical Sciences

Co - Convener

Dr. Rohit Prakash

Organizing Secretary

Dr. Ashish Kumar Srivastava
Dr. Biswajit Mishra

Chief Guest:

Dr. S. J. S. Flora, Director, NIPER, Raebareli

Invited Speakers from Universities/Institutions:

Prof. Sudha Jain, Lucknow University

Prof. Raja Roy, Director, CBMR, SGPGI, Lucknow

Dr. Brijesh Kumar, CDRI, Lucknow

Prof. B. C. Yadav, BBAU, Lucknow

Prof. P. N. Saxena, IITR, Lucknow

Dr. Sanjeev Kumar Shukla, CDRI, Lucknow

Dr. Anjani Kumar Tiwari, BBAU, Lucknow

Dr. Rajdip Dey, SRMU

Registration Form

Name:

Designation:

Organization:

Department:

Category of Participants (Please tick \surd):

Academician: # Industrialist:

Research Scholar: # Student:

Gender: Male/Female

Address for Communication:

.....

City:.....

Pin Code:.....

Mob.No.:.....

E-mail:.....

I am submitting a sum of Rs.....(in words.....
.....) in cash.

Declaration:

I agree to abide by the rules and the regulations of the workshop.

Place

Date

Signature

**SHRI RAMSWAROOP
MEMORIAL UNIVERSITY**
Lucknow-Deva Road-225003 Uttar Pradesh
India

**WORKSHOP ON
IMPORTANT TECHNIQUES
FOR CHARACTERIZATION
OF MOLECULES
25th -29th March, 2019**



**Organized by
Faculty of Chemical Sciences
Institute of Natural Sciences and Humanities**

Shri Ramswaroop Memorial University

Shri Ramswaroop Memorial University was established in 2012 in the vicinity of famous Deva Sharif Dargah. The university is a confluence of academic, cultural and intellectual resources. We seek to achieve the highest level of distinction in the innovation and transmission of knowledge and understanding. Serene and beautiful ambience of the university is conducive for quality education. The University has been committed to develop the skill based learning for undergraduates and post graduates by following unique program that blends teaching with the essence of research. The university is in active collaboration with national and international centers of excellence.

About Faculty of Chemical Sciences

Faculty of Chemical sciences came into existence in 2012 under Institute of Natural Science and Humanities with the establishment of university itself. The Faculty is headed by Prof. Krishna Srivastava and has been lucky in having esteemed faculty members and staff. B.Sc. (H), M.Sc. and PhD. courses are running successfully in the department.

Aim and Scope

The Faculty of Chemical Sciences, Shri Ramswaroop Memorial University (SRMU), invites participants to attend the workshop on "Important techniques for characterization of molecules" from 25th -29th, March 2019. The workshop encompasses various techniques used for characterization of molecules in laboratory to real life samples.

The proposed workshop will provide an opportunity to experience the state-of-the-art of NMR, IR, UV spectroscopic techniques and initiate lively discussion among research scientists, academicians and young researchers to share their knowledge in the frontier areas of chemical sciences. The beginners will get a chance to familiarize themselves with NMR, IR, UV spectroscopic techniques and gain confidence by observing their applications and data interpretation as done in real situation. One dimensional NMR is helpful in characterization of small molecules but for larger molecules two dimensional NMR technique is used.

X-ray diffraction technique provides indispensable tool not only in confirming the structure of molecules but also helpful in ascertaining the complete stereochemistry.

Sessions would cover principles and applications of SEM along with its practical sessions which is a powerful magnification tool that utilizes focused beam of electrons to obtain information about topography and morphology of surfaces. BET is helpful in measuring specific surface area including pore size distribution of a sample. Fluorescence spectroscopy is non invasive technique that has recently gained much importance in diagnosis of cancer with high specificity. Separation techniques like, HPLC are helpful in separation of mixtures containing large number of compounds and find extensive application in health, pharmaceutical and many other industries. This five-day workshop is aimed at enhancing the knowledge and skill-set of students, research fellows, faculties and staffs working in the area of life sciences and would include both theory and practical sessions. The focus would be on various techniques, applications and their sample preparation methods with intensive practical sessions including hands-on sessions. Lab visits are also planned to increase awareness among the participants about the available sophisticated analytical instruments.

REGISTRATION FEE

Category of Participants	Registration up to 18/03/2019	On Spot Registration
Academicians	Rs. 3000/-	Rs. 3500/-
Industrialists	Rs. 3500/-	Rs. 4000/-
Research Scholars/ Students	Rs. 2200/-	Rs. 2500/-

For queries please contact:

Dr. Ashish Kr. Srivastava (9648461455)

Dr. Biswajit Misra (9937043450)

Address for communication:

Dean,

Faculty of Chemical Sciences,

Shri Ramswaroop Memorial University

Lucknow-Deva Road-225003, India

E-mail: dean.cy@srmu.ac.in

Duration and content of workshop

Duration	One Week
Subject of area	Characterization of molecules
Techniques	NMR,
	XRD,
	FT-IR,
	UV
	Scanning electron microscope (SEM), Brunauer, Emmett, Teller (BET) equipment
	Fluorescence spectrophotometer Particle size analyzer
Ultra-high-performance liquid chromatography (UHPLC)	
Methodology	Lectures, Demos with hands on session and spectral analysis
Level of participants	Faculty, Research scholars, students and industrialists.
Prerequisites	Minimum skill in operation of computer