



# Online One-week National Workshop

## on “Advanced Physical Tools and Techniques for Materials Characterization” (APTTMC-2020)

**28<sup>th</sup> July – 03<sup>rd</sup> August 2020**

Organized by

Department of Physics, Mahatma Gandhi Central University, Bihar

### Patron



**Prof. Sanjeev Kumar Sharma**  
Hon'ble Vice-Chancellor  
Mahatma Gandhi Central University  
Bihar

### Convener



**Prof. Ajai Kumar Gupta**  
Dean School of Physical Sciences  
Head, Department of Physics  
Department of Physics, MGCU Bihar

Join us at



### Co-Conveners

**Prof. Santosh Kumar Tripathi**  
Department of Physics, MGCU Bihar

**Prof. Sunil Kumar Srivastava**  
Department of Physics, MGCU Bihar

### Organizing Secretaries

**Dr. Neelabh Srivastava**  
Department of Physics, MGCU Bihar

**Dr. Pawan Kumar**  
Department of Physics, MGCU Bihar

### Organizing Committee

All Faculty Members  
of the Department

### Registration link

<https://forms.gle/saQxaqXVpk214Kpd6>

**Last Date of Registration: 26<sup>th</sup> July 2020**

### About the Workshop

The online one-week workshop on Material Characterization Techniques is being organized to get familiar with the physical tool and techniques which are essential for material science research. The workshop will focus on working and demonstration of various experimental characterization techniques as well as theoretical methods. This workshop will be much beneficial for Faculty members, early stage researchers (M.Phil./Ph.D.), students (UG/PG) and working professionals in the field of materials science and also to other allied disciplines.

### List of Speakers

**Prof. Ravindra Dhar**  
Allahabad University



**Prof. T. Som**  
IoP, Bhubaneshwar



**Prof. G. Govindaraj**  
Pondicherry University



**Dr. Pankaj Poddar**  
Senior Scientist  
NCL, Pune



**Dr. R. J. Choudhary**  
Scientist-F  
UGC-DAE CSR, Indore



**Dr. Fouran Singh**  
Scientist-F  
IUAC, New Delhi



**Dr. Indra Sulania**  
Scientist-E  
IUAC, New Delhi



**Dr. Ambesh Dixit**  
Associate Professor  
IIT Jodhpur



**Dr. Vijay Raj Singh**  
Associate Professor  
CUSB, Gaya



**Dr. S. Amirthapandian**  
Scientific Officer-F  
IGCAR, Kalpakkam



**Dr. Sanjay Singh**  
Assistant Professor  
SMST, IIT-BHU



**Dr. Anar Singh**  
Assistant Professor  
Lucknow University



**Dr. P. K. Shukla**  
Assistant Professor  
Assam University, Silchar



**Amit Joshi**  
Application Specialist  
Thermo Fisher Scientific



**Harender Kumar**  
Application Engineer  
Integrated Microsystem



### Topics

Expert lectures will be of 1.5 hour duration on the following topics:

- Electron Microscopy Techniques
- X-Ray/ Neutron Diffraction
- Ion-Beam Analysis
- Raman/IR Spectroscopy
- Density Functional Theory
- Magnetic Measurements of Materials
- Photoelectron Spectroscopy
- Scanning Probe Microscopy (AFM, MFM)
- Impedance Spectroscopy
- Thermal Analysis

E-Certificate will be issued to all the registered participants.

**\*Certificate will be issued for 90% and above attendance only**

Contact us:

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