



Department of Instrumentation Engineering (USIC)
H.N.B. Garhwal University, Srinagar (Garhwal)
organizes

Hands-on Workshop on Materials Characterization using Analytical Instruments

(26 - 31 March, 2024)



Organizing Team

Patron

Prof. Annpurna Nautiyal
Vice Chancellor
H. N. B. Garhwal University
(A Central University)
Srinagar (Garhwal), Uttarakhand

Prof. M. P. Thapliyal
Dean, School of Engg. and Tech.
H.N.B. Garhwal University

Prof. N. S. Panwar
Head, Instrumentation Engg. (USIC)
H.N.B. Garhwal University

Coordinator

Dr. Don Biswas

Organizing Committee Members

Dr. V. S. Bist
Dr. G. S. Kathait
Dr. Prashant Thapliyal
Dr. Vishal Rohilla

Department of Instrumentation
Engineering, H.N.B. Garhwal
University

Who can participate

Faculty members, Research scholars of Science, Life science, and Engineering streams

Registration Link:

https://docs.google.com/forms/d/e/1FAIpQLSc52OkDKVPd-Tssav17n8lr698g-L-DsOR8kWO6A_cPhZ2Pug/viewform?usp=sf_link

Program Highlights

- ✓ **Basics of instrument(s) working**
- ✓ **Live training on characterization techniques, using**
- ☐ **X-ray Diffraction (XRD)**
- ☐ **Scanning Electron Microscopy (SEM)**
- ☐ **Piezoelectric Measurements**
- ☐ **Inductively Coupled Plasma Mass Spectrometry (ICPMS)**
- ☐ **Impedance Analysis**
- ☐ **UV-Vis-NIR Spectroscopy**
- ☐ **Thin Film Deposition and Characterization**

* Participants may bring their samples for measurements

* Limited entries on first come first serve basis

Contacts- 8477809490, 7830506095

(Selected participants will be informed by phone/email)

Organized by
Department of Instrumentation Engg. (USIC)
H.N.B. Garhwal University
Srinagar (Garhwal), Uttarakhand

Brief about the workshop

This hands-on training program is designed to provide participants with a comprehensive understanding of materials characterization techniques. Participants will be able to operate various available analytical instruments in the Department of Instrumentation Engineering, H.N.B. Garhwal University. The course is applicable and useful to the students, researchers, and engineering professionals having motivated research aptitude and attitude.

Course coverage

- ✓ Basics of instrument(s) working
- ✓ Live training on characterization techniques, using

1. X-ray Diffraction (XRD)
2. Scanning Electron Microscopy (SEM)
3. Piezoelectric Measurements
4. Inductively Coupled Plasma Mass Spectrometry (ICPMS)
5. Impedance Analysis
6. UV-Vis-NIR Spectroscopy
7. Thin film Deposition and Characterization

***Participants may bring their samples for measurements**

Program schedule

It is a one week Hands-on workshop scheduled during 26-31 March, 2024. The workshop will be held at USIC, in the Department of Instrumentation Engineering, H.N.B. Garhwal University, at the Chauras Campus, Srinagar (Garhwal).

Online registration link

https://docs.google.com/forms/d/e/1FAIpQLSc52OkDKVPd-Tssav17n8Ir698g-L-DsOR8kWO6A_cPhZ2Pug/viewform?usp=sf_link

Program fee- 1000/- (INR)

***Payment link details will be given to the shortlisted candidates only.**

Important date

Registration deadline: 24th March, 2024

About the department

The Department of Instrumentation Engineering, erstwhile the University Science Instrumentation Centre (USIC), is dedicated to extend an instrumentation culture in the society, in general, and in the higher education system, in particular, and to spread instrumentation awareness, to generate manpower at different levels and to promote R & D programs in instrumentation. For more information, please visit

<https://www.hnbggu.ac.in/index.php/school/engtechno/ie/srinagar/about-department>

Contact us

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**H.N.B. Garhwal University
Srinagar (Garhwal)**

Hands-on Workshop on Materials characterization using analytical instruments (26 - 31 March, 2024)

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Uttarakhand-246174**