



INDIAN INSTITUTE OF TECHNOLOGY INDORE

Two days workshop on “Electron Microscopy”

January 14 -15, 2020

SPONSORED BY: TEQIP-III

Course Objectives

The “Electron Microscopy” workshop is organized to provide graduate and postgraduate-level students and researchers in Physics, Chemistry, Materials Science, Bio-Science and allied fields with basic knowledge of the capabilities and limitations of Electron Microscopes: Scanning electron microscope (SEM) and Transmission electron microscope (TEM). It includes lectures on theoretical aspects of Electron Microscopy followed by hands-on training sessions. The format and content of the training is tailored to suit the needs of practical microscopist routinely dealing with challenges of instrumental procedures, specimen preparation, data collection and quantification. This will provide a deeper understanding of the Physics underlying the electron microscopy, imaging and analysis.

Participants

The course is designed for

- Faculty members, Scientists and Engineers in Mechanical / Production / Metallurgy / Materials / Physics / Chemistry/ Biotechnology etc.
- Professionals involved in Energy sectors/ Materials / Metals industries.
- Research scholars and students in the relevant fields.

Course Modules

Identification of materials in context to Solar cells, Piezoelectric and Biofuels, *etc.*
Potential Growth Techniques
Materials characterization using X-ray diffraction, Optical and Scanning Electron Microscopes, Uv-Vis, FTIR, Gas Chromatography, Electrochemical, Solar cell I-V, Raman Spectroscopy, Hall effect, *etc.*

Course Coordinators

Dr. Parasharam Shirage (Associate Professor, MEMS, IIT Indore)

Dr. Kiran Bala (Associate Professor, BSBE, IIT Indore)

Certificate

Participants who successfully complete the course will be awarded a certificate.

Venue

The course will be conducted at IIT Indore premises.

Registration

There is **no fee for participants from TEQIP sponsored colleges**. The nominations along with the registration forms must be sent through their coordinator to the address below. Email confirmation in advance is suggested.

For other participants, the fee (per participant) is **Rs. 4,000/-** (Four Thousand Only) **for professionals** and **Rs. 2,000** (Two Thousand Only) **for students**. Registration fee includes course material, tea & working lunches.

MODE OF PAYMENT: Through DD drawn in favor of “**Registrar, IIT Indore**” payable at Indore, or through online payment/bank transfer (Bank: State Bank of India; Branch: Khandwa Road, Indore; Account number: 31702151577; IFS Code: SBIN0011779).

Evidence of payment should be emailed in advance to confirm the participation.

Accommodation

Accommodation may be available at hostels of IIT Indore on payment basis. Candidates can check the availability at hostel@iiti.ac.in and 0732 4306583.

Contact Person

Dr. Parasharam Shirage

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Simrol, Indore- 453552. India

E-mail: pms Shirage@iiti.ac.in;

Ph.: 07324-306739 (O); 07875222331 (M).

Registration Form:

1.	Name of the Person:	
2.	Designation:	
3.	Academic Qualification:	
4.	Name of Institution / Organization:	
5.	Address for Communication:	
6.	Phone:	
7.	Email:	
8.	Online Payment Details: Link for the payment through <u>Paytm Portal</u> is available on IIT Indore website	
	• Amount:	
	• Online-Payment Ref. No.:	
	• Transaction Date:	
	• Bank etc. Details:	
	Evidence of payment should be emailed in advance to confirm the participation.	
Place:		Date:
Signature of Participant:		
Approval / Permission from Institution / Organization:		
We approve the above application as a participant for the above short course, which is being organized by IIT Indore on January 14-15, 2020.		
Authorized Signatory		Institute/Organization Seal

Note: To confirm the participation in advance, scan copy of the filled form can be emailed to pms Shirage@iiti.ac.in