

Malaviya Mission Teacher Training Centre @CS2 - IISER Bhopal

Schedule of One-Week Residential FDP

on

Modern Characterization Techniques for Molecular & Nano Materials

March 9–14, 2026

Date	Time	Speaker	Talk Title
Day 1 09.03.2026	09:30 AM-09:40 AM	Prof. J. Sankar Coordinator, MMTTC, IISER Bhopal	Overview of MMTTC-IISER Bhopal
	09:40 AM-09:50 AM	Prof. Gobardhan Das Director, IISER Bhopal	Welcome Address
	09:50 AM-10:10 AM	High Tea & Group Photo	
	10:15 AM-11:45 AM	Prof. Apurba Lal Koner Department of Chemistry, IISER Bhopal	Electron Microscopy Techniques
	11:45 AM-01:15 PM	Prof. Deepak Chopra Department of Chemistry, IISER Bhopal	Single Crystal X-ray Diffraction
	01:15 PM-02:00 PM	Lunch Break	
	02:00 PM-03:30 PM	Single Crystal X-ray Diffraction	Hands-on
	03:30 PM-03-45 PM	Tea Break	
Day 2 10.03.2026	03:45 PM-05:15 PM	SEM & TEM Facility	Hands-on
	10:00 AM-11:30 AM	Prof. Deepak Chopra Department of Chemistry, IISER Bhopal	Powder X-ray Diffraction
	11:30 AM-11:45 AM	Tea Break	
	11:45 AM-01:15 PM	Prof. Sachin Dev Verma Department of Chemistry, IISER Bhopal	Ultrafast Spectroscopy
	01:15 PM-02:00 PM	Lunch Break	
	02:00 PM-03:30 PM	Powder X-ray Diffraction	Hands-on
	03:30 PM-03-45 PM	Tea Break	
03:45 PM-05:15 PM	Ultrafast Spectroscopy	Hands-on	

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Date	Time	Speaker	Talk Title
Day 3 11.03.2026	10:00 AM-11:30 AM	Prof. Debasish Manna Department of Chemistry, IISER Bhopal	EPR Spectroscopy
	11:30 AM-11:45 AM	Tea Break	
	11:45 AM-01:15 PM	Prof. Ravi Shankar Singh Department of Physics, IISER Bhopal	X-ray Photoelectron Spectroscopy
	01:15 PM-02:00 PM	Lunch Break	
	02:00 PM-03:30 PM	X-ray Photoelectron Spectroscopy	Hands-on
	03:30 PM-03:45 PM	Tea Break	
	03:45 PM-05:15 PM	EPR Spectroscopy	Hands-on
Day 4 12.03.2026	10:00 AM-11:30 AM	Prof. Debasish Manna Department of Chemistry, IISER Bhopal	Mass Spectrometry
	11:30 AM-11:45 AM	Tea Break	
	11:45 AM-01:15 PM	Prof. Amit Paul Department of Chemistry, IISER Bhopal	Electrochemical Techniques
	01:15 PM-02:00 PM	Lunch Break	
	02:00 PM-03:30 PM	Mass Spectrometry	Hands-on
	03:30 PM-03:45 PM	Tea Break	
	03:45 PM-05:15 PM	Electrochemical Techniques	Hands-on

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Date	Time	Speaker	Talk Title
Day 5 13.03.2026	10:00 AM-11:30 AM	Prof. Abhijit Patra Department of Chemistry, IISER Bhopal	Pore structures and surface characteristics of materials: Case studies with nanoporous organic polymers
	11:30 AM-11:45 AM	Tea Break	
	11:45 AM-01:15 PM	Prof. Saptarshi Mukherjee Department of Chemistry, IISER Bhopal	Fluorescence Spectroscopy: Basic Principles and Some Applications
	01:15 PM-02:00 PM	Lunch Break	
	02:00 PM-03:30 PM	Pore structures and surface characteristics of materials: Case studies with nanoporous organic polymers	Hands-on
	03:30 PM-03:45 PM	Tea Break	
	03:45 PM-05:15 PM	Fluorescence Spectroscopy	Hands-on
Day 6 14.03.2026	10:00 AM-11:30 AM	Prof. Bharathwaj Sathyamoorthy Department of Chemistry, IISER Bhopal	NMR Spectroscopy
	11:30 AM-11:45 AM	Tea Break	
	11:45 AM-01:15 PM	NMR Spectroscopy	Hands-on
	01:15 PM-02:00 PM	Lunch Break	
	02:00 PM-03:00 PM	Assessment Test	
	03:00 PM-03:30 PM	Closing Ceremony & Certificate Distribution	
	03:30 PM-04:00 PM	Refreshment	