Online Short Term Course on Spectroscopic Techniques for Materials Characterization

4th – 8th January 2021 Sponsored by TEQIP-III





Organized by

Materials Research Centre

Malaviya National Institute of Technology Jaipur JLN Marg, Malviya Nagar, Jaipur-302017

www.mnit.ac.in

Objective of Course

The objective of the course is to acquaint the researchers with spectroscopic techniques for materials characterization. The course is designed to give broad prospective of basic principles, applications and interpretation of the data obtained using NMR, Mass, Raman, UV-visible, FTIR and Fluorescence Spectroscopy. Representative examples showing the interpretation of spectrums will be discussed.



Organizing Committee

Patron

Prof. Udaykumar R. Yaragatti (Director, MNIT Jaipur)

Chairman

Dr. Kamlendra Awasthi (Head, MRC)

Conveners

Prof. Ragini Gupta Prof. Kanupriya Sachdev

Coordinators

Dr. Bhagwati Sharma
Dr. Nisha Verma
Dr. Himmat Singh Kushwaha
Dr. Kamakshi

Student representatives

Ms. Surbhi Singh Ms. Upasana Bhardwaj Ms. Aditi Sharma

Contact Persons

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About MNIT Jaipur	Topics to be covered	How to Apply
MNIT Jaipur is one of the premier NITs, designated	The course is interdisciplinary in nature and will be	Online Short Term Course
with the status of "Institute of National Importance"	beneficial to students/ researchers from diverse	On
by MHRD. The institute was established in 1963, and	backgrounds working in the field of materials science	Spectroscopic Techniques for Materials Characterization
its campus spreads over 325 acres of lush green area	and technology, chemistry, physics and other allied	04 th – 08 th January 2021
in the central location of Jaipur city. The institute	fields. The main topics to be covered in STC include:	Materials Research Centre, MNIT Jaipur – 302017 Rajasthan
offers UG and PG courses (B.Tech., M.Tech. /MBA/	■ ¹H and ¹³C NMR spectroscopy	
M.Sc. & Ph.D.) to about 5000 students, in leading	 Basics of Solid state NMR 	Registration
fields of engineering, technology, architecture,	■ Mass spectroscopy	Registration Fees
management & sciences. The institute is actively	Raman spectroscopy	The participation fee including GST for different
engaged in research, consultancy and developmental	Fourier transform infrared spectroscopy	participants is:
activities, besides imparting regular teaching. MNIT	 UV-visible spectroscopy 	1. MNIT Students (UG/PG/PhD): Rs.236/-
Jaipur was ranked at 35th position in NIRF ranking	 Fluorescence spectroscopy 	2. Other Institute Students (UG/PG/PhD): Rs. 354/-
2020.	Resource Persons/ speakers	3. Participants from Academia/ Industry: Rs. 590/-
About Materials Research Centre	The resource persons for the course will be highly	
Materials Research Centre (MRC) aims to harness the	experienced faculty members from IITs, NITs, and	Payment mode: NEFT/IMPS
talent resources of MNITJ for promoting	Central universities, CSIR labs etc. working in the	Account Details: Registrar, MNIT Jaipur (TEQIP-
interdisciplinary research in appropriate materials	relevant areas.	III)
technologies. It has been created with an objective of	Targeted participants	A/C No.: 36875887782, SBI, MNIT Campus,
providing a central facility of latest and advanced	Faculty members from engineering institutes/	Jaipur, IFSC Code: SBIN0015921
analytical instruments for research in the application	universities, Ph.D. research scholars and M. Sc./ M.	•
areas of physical, environmental, chemical, allied and	Tech students.	Registration Link:
interdisciplinary sciences and Technology. MRC	Number of Participants	https://forms.gle/FaapRKDXBmY4HME39
provides access to a wide range of state-of-the-art	Number of participants is limited for the workshop.	intps://forms.gic/r aapKKD/XDiii r 4riiviL3/
equipment necessary for materials characterization	Application will be accepted on first cum-first	
such as NMR, Mass, XRD, XPS, TEM, SEM, AFM	serve basis.	* The receipt of payment must be attached to the
etc. The Centre also offers Ph.D. programme and an	Important Dates	google form.
interdisciplinary Masters Programme in Materials	Last date for online registration: 2.1.2021	*E-certificates will be provided only to registered
Science and Engineering.	Confirmation by email: 3.1.2021	participants with attendance more than 80%