



# VIRTUAL WORKSHOP ON ADVANCED CHARACTERISATION TECHNIQUES

16 AUGUST – 8 SEPTEMBER 2021

## About the Workshop

The basic objective of this workshop is to provide an early research exposure to MSc students of Physics & Chemistry and offer an overview of advanced spectroscopic, electron microscopy and X-ray diffraction methods and their applications through invited lectures, and live demonstrations (virtual) by experts from academic institutions, and industries. The workshop will help the students to familiarize with high end research instruments and their usage including data collection and analysis thus developing general research skills that would be useful in both industry and academia. Registration for the workshop (for a limited number of MSc/PhD students) can be made by visiting [the link](#) and is on a first-come, first-served basis. E-certificates will be provided to external students who attend all the sessions, subject to successful completion of the course.

## About School of Applied Sciences (SAS)

SAS is consisting of four departments Physics, Chemistry Mathematics, & Life Science. The school has vibrant Ph.D. and Master's program in the above disciplines. The school is known for the quality of its research enterprise, and particularly for its openness to multidisciplinary research. The faculty members are engaged on cutting edge research in areas related to energy, environment, advanced materials, human health and applied mathematics with a truly interdisciplinary flavour. The school welcomes external students for their association with our faculty for conducting projects and usage of university's state-of-the-art characterization facilities that is unique in eastern India, at a nominal cost.

## WORKSHOP TOPICS

X-ray Diffraction  
Electron Microscopy  
NMR Spectroscopy

## SPEAKERS

Dr. J. N. Behera  
NISER, Bhubaneswar

Dr. P. K. Deheri  
KIIT, Bhubaneswar

Mr. I. Ravikumar  
Bruker India (XRD)

Dr. Ashutosh Rath  
CSIR-IMMT, Bhubaneswar

Dr. Gopal K. Pradhan  
KIIT, Bhubaneswar

Mr. Daniel Aloysius  
Zeiss India (Microscopy)

Dr. Arindam Ghosh  
NISER, Bhubaneswar

Dr. Samaresh Jana  
KIIT, Bhubaneswar

Mr. Srinivasa L. Poojary  
Jeol India (NMR)

## Registration Link

<https://forms.gle/Yx98KW3mcDRCvgYK6>

Register by 13<sup>th</sup> August

**There is no registration fee**

## Contact

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**SCHOOL OF APPLIED SCIENCES**

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KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY  
Deemed to be University U/S 3 of the UGC Act, 1956  
**SCHOOL OF APPLIED SCIENCES**

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## 16 August -8 September 2021

### Program Schedule

<b>Speaker</b>	<b>Topic</b>	<b>Tentative Schedule</b>
Dr. Ashutosh Rath Sr. Scientist IMMT, Bhubaneswar,  Dr. G. K. Pradhan, KIIT	SEM and TEM techniques: Its principle and application	16-Aug-2021; 9:30 am to 12:30 pm
		17-Aug-2021; 9:30 am to 12:30 pm
		18-Aug-2021; 9:30 am to 12:30 pm
Daniel Aloysius Application Specialist, Electron Microscopy - Zeiss India	The Instrumentation of Electron Microscopes	19-Aug-2021; 9:30 am to 12:30 pm
		20-Aug-2021; 9:30 am to 12:30 pm
Dr. J. N. Behera Associate Prof. NISER, Bhubaneswar  Dr. P. K. Deheri, KIIT	XRD techniques: Its basic principle and application	23-Aug-2021; 9:30 am to 12:30 pm
		24-Aug-2021; 9:30 am to 12:30 pm
		25-Aug-2021; 9:30 am to 12:30 pm
Mr. Iyyamperumal Ravikumar Application Specialist XRD-Bruker India	Data collection in XRD: Good to excellent Process	26-Aug-2021; 9:30 am to 12:30 pm
		27-Aug-2021; 9:30 am to 12:30 pm
Dr. Arindam Ghosh, Reader-F NISER, Bhubaneswar  Dr. S. Jana, KIIT	NMR Spectroscopy: Its basic principle and application	30-Aug-2021; 9:30 am to 12:30 pm
		31-Aug-2021; 9:30 am to 12:30 pm
		1-Sep-2021; 9:30 am to 12:30 pm
Mr. Srinivasa Laxmana Poojary Application Specialist, NMR-Jeol India	Instrumentation and its working principle of NMR spectroscopy	2-Sep-2021; 9:30 am to 12:30 pm
		3-Sep-2021; 9:30 am to 12:30 pm
Dr. G. K. Pradhan, KIIT Dr. S. Jana, KIIT Dr. P. K. Deheri, KIIT	Tutorials & Discussion	6-7 Sep-2021, 9:30 am to 12:30 pm
	Feedback & Valedictory	8-Sep-2021, 10 am -12 Noon