



Webinar Title: “ Scanning Electron Microscope And Its Associated Techniques”

Registration Fee (including GST):- Rs 500

Expert Speaker (Name/ Designation) – Dr. Dan Sathiaraj, Assistant Professor, Discipline of Mechanical Engineering, IIT Indore.

Webinar Date: 12.09.2020 Time: 10.00 – 11.15 A.M.

About Webinar -

This webinar talk will cover the basics of scanning electron microscope and its associated advance techniques in the point of view of microstructural analysis and structural material application. The webinar mainly cover the various imaging techniques available in SEM. The participants are also introduced to energy dispersive spectroscopy (EDS), ion beam methods and electron backscattered diffraction (EBSD) techniques. At the conclusion of this webinar any student or faculty working in the area of microstructural analysis can gain the knowledge of usage of SEM techniques on their research needs.

- Understand the basics of SEM
- Learn about the secondary and backscattered electron imaging
- Introduced to EDS, EBSD techniques and ion beam methods
- Learn about current hot research area - High entropy alloys

Speaker Profile:-

Dr. Dan Sathairaj joined as Assistant Professor in the discipline of mechanical engineering at IIT Indore on November, 2019. He did his PhD (2016) from IIT Hyderabad in the area of High entropy alloys. Before joining IIT Indore, Dr. Dan was worked as a postdoctoral researcher at TU Dresden, Germany during May 2017 to November 2019. His postdoctoral research was funded by prestigious Alexander Von Humboldt Foundation. His area of interest are micro, nano - machining of advanced multi-component alloys (HEAs), Microstructure and texture evolution during basic deformation through conventional routes, severe plastic deformation, recrystallization and grain growth behavior of these alloys.

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