



INDIAN INSTITUTE OF TECHNOLOGY INDORE

Department of Metallurgy Engineering and Materials Science

Organizes



QIP SPONSERED 6-DAYS SHORT TERM COURSE ON

ADVANCES IN MATERIALS PROCESSING AND CHARACTERIZATION

16th May – 21st May, 2022

Through On-line Mode

ABOUT THE COURSE

The proposed course is focused on broadening the knowledge of participants in the areas of advanced materials processing and characterization. The topics covered in the course includes development of new materials like light weight composites and advanced high strength alloys for the application in aerospace, automotive, nuclear, energy and biomedical industries. Also the topics related to processing (fabrication), i.e. welding, casting, fabrication of these advanced materials through liquid metallurgy route and solid state processing route will be discussed. Also topics related to advanced metal forming, high strain rate forming etc., advanced techniques used for characterization of materials would be discussed in detail.

In this course, in addition to expert lectures, virtual practical sessions to provide virtual training to the participants for better the understanding of the processing of advanced materials, joining technique, casting technique and etc.



Topics of discussion will include, but not limited to :

1. Advanced materials
2. Advances in materials processing
3. Advanced materials characterization techniques
4. Fracture and Failure analysis of Materials
5. Virtual demonstration of materials processing experiments and advanced materials characterization

Faculties and scientists from renowned institutions of India will be invited for discussing on these topics.

Target Participants

- Interested faculty members with any academic background from institutions recognized by AICTE are eligible to attend the course.

Registration process

- Interested participants can submit their application form online using the link below.
<https://docs.google.com/forms/d/10hoUvYz52UYOGLTi0mqampPZ-RmWXNtraM2W0WxUbhk/edit>
- Number of participants are limited. **There is no registration fee.**
- Last date for submitting application is: **11 May 2022.**

Certificate

- Participants completing the course successfully will be awarded e-Certificate.

COURSE CO-ORDINATORS

Dr. D.A. Basha, Dr. R.S Maurya , Dr. Jayaprakash Murugesan , Dr. Sumanta Samal

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If any issues in submitting online registration form please e-mail to course coordinator