







Participants: 83

DEPARTMENT OF MECHANICAL ENGINEERING

INDIAN INSTITUTE OF METALS (IIM) -KALPAKKAM CHAPTER

Report - Webinar on "Ion Beams and Nanomaterials"

21st December 2020

Resource person: Dr.B.Sundaravel

Scientific Officer –G & Associate Professor, HBNI Materials Science Group, IGCAR, Kalpakkam.

Department of Mechanical Engineering in association with Indian institute of metals (IIM) Kalpakkam chapter organised a Webinar on the topic "Ion Beams and Nanomaterials" on 21st December 2020.

The topics covered in Webinar

- Ion Beam Accelerator Facilities at IGCAR
- Ion beams usage in Material synthesis.
- Ion beams used in modification of properties.
- Characterization of Materials
- Radiation Damage
- Synthesis and modification of Nanomaterials.

Webinar Outcome

- Students understood the importance and different types of Ion beams and nanomaterials.
- Production of Energetic Ions using Accelerators.
- Accelerator based Material research.
- Accelerators facilities at Material science group IGCAR
- Ion beam analysis.
- Synthesis of nanomaterials using energetic ions.
- Different types of carbon nanomaterials.
- Radiation enhanced diffusion and segregation.

The Webinar was coordinated by Dr.D.Bubeshkumar, Associate professor and Mr.A.Senthilkumar, Assistant Professor (Gr-II).Prof L.Prabhu VP (Administration) and HOD Mechanical department given the presidential address. The chief guest introduction was given by Mr.A.Elanthiraiyan, Assistant Professor Grade-II department of mechanical engineering.



