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DEPARTMENT OF MECHANICAL ENGINEERING

INDIAN INSTITUTE OF METALS (IIM) & INSTITUTIONS INNOVATION COUNCIL (IIC)

Report – Webinar on "High Entropy Alloys -Basics"

28th October 2020

Resource person: Dr.C.Lakshmanan,

Post Doctoral Research Associate,

Materials Physics Group, IGCAR, Kalpakkam.

Department of Mechanical Engineering in association with Indian institute of metals (IIM) Kalpakkam chapter and Institutions Innovation Council(IIC) jointly organised a Webinar on the topic "High Entropy Alloys-Basics" on 28th October 2020.

The topics covered in Webinar

- Introduction to High entropy alloys
- Fundamental Understanding and Applications of High-Entropy Alloys.
- Microstructure and texture analysis of High entropy alloys
- Multicomponent High entropy alloys.
- Development and Exploration of Refractory High Entropy Alloys
- Strengthening mechanisms in high entropy alloys
- Modeling the structure and thermodynamics of high entropy alloys
- Methods for preparation of High entropy alloys.
- Chemicals used.
- Application of High entropy alloys in mechanical field.
- Current Research on High entropy alloys.

Webinar Outcome

- Students understood the importance and different types of High entropy alloys.
- Preparation process and microstructure of different alloys.
- Learned the properties of different high entropy alloys.
- Preparation methods and chemical used in high entropy alloys.
- Application of high entropy alloys in mechanical engineering field.

The Webinar was coordinated by Mr.A.Senthilkumar Assistant Professor (Gr-II) and Prof L.Prabhu VP(Administration), President-IIC and HOD Mechanical department given the presidential address.

