<u>Press Release</u>

Dated: 20 Jan 2018

A national workshop on **Composite Materials in Engineering Applications: Design and Manufacturing Perspective** was successfully organized by School of Engineering, IIT Mandi during 15th to 19th January 2018 at Kamand Campus. This workshop was partially funded by the Council for Scientific Industrial Research (CSIR), Government of India and IIT Mandi.

Composite materials have large scale commercial applications in marine, aerospace, automotive, sporting goods, infrastructure, energy storage, biomedical etc. In this workshop, the subject of manufacturing was dealt within the frame work of composite materials for various application ranging from packaging, bone scaffolds, drug delivery, sensor applications, surface engineering and civil structures. The design portion included explanation of the concepts involved in the detailed design analysis of composites. Participants were able to extend the capabilities of ANSYS by use of ANSYS Parametric Design Language (APDL) and Mesh free finite element methods. The workshop consisted of over 24 hours lecture sessions including 8 hours case studies sessions on various applications of composites.

Over 40 participants attended the workshop, among which 35 participants were faculty and students from engineering colleges and technical institutes from Karnataka, Tamil Nadu, Madhya Pradesh, West Bengal, Uttar Pradesh, Punjab, Haryana, Himachal Pradesh, Delhi and Chandigarh. Speakers included subject experts from IIT Roorkee and IIT Patna besides IIT Mandi. Dr. Apurbba Kumar Sharma and Dr. Inderdeep Singh from IIT Roorkee and Dr. Akhilendra Singh from IIT Patna were invited as external subject experts for the workshop.

Dr. Sunny Zafar and Dr. Himanshu Pathak from School of Engineering, IIT Mandi were the coordinators of this workshop.

Picture 1: Group photograph of the participants and organizers at IIT Mandi, Kamand Campus

Picture 2: Inaugural Speech by Prof. Gonsalves

Picture 3: Participants are attending lectures

Picture 4: Participants are learning ANSYS APDL programming (Lab Session)

Picture 5: Participants are exploring AMRC (material characterization) facilities

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