Course Content:
- Metallurgical advancement in Steel Industry.
- Heat Treatment of various Carbon Steel.
- Micro structure and hardness measurement of various steels.
- Stress – Strain control during rolling, pass design.
- Grain size & Micro structure uniformity in rolled products.
- Effect of various alloying elements.
- Factors effecting drawability, forgeability of rods/bars.
- Decarbonisation & its control.

About Mechanical Department
Mechanical Engineering is often called the mother of all engineering. It covers a host of subjects: properties of materials, structural design, material processing, manufacturing, heat engines, refrigeration and air conditioning, industrial management, robotics and much more. The Mechanical Engineering Department of NIT Rourkela is known for research in most of these fields. The main focus of research are on mechanical vibration, robotics, CAD/CAM, precision engineering, Metal forming, manufacturing, CFD, Industrial refrigeration and Cryogenics.

The academic programmes of the department reflect not only the core areas of Mechanical Engineer but also the research specialization of the faculty. The department at present has over one hundred research scholars pursuing projects on diverse fields. The faculty is organized under three divisions and six groups. All the groups are working in close co-operation while retaining individual identities. Many Research and Development projects being pursued by the faculty are sponsored by Government agencies and private industries. Among the major sponsors are BRNS, DST, ARDB, BRFST, HBL Power Systems and Lechier India Private Limited.
How To Reach Rourkela
Rourkela is on the Howrah (Kolkata)–Mumbai main line of South Eastern railway. The railway station and intrastate bus stand are 6kms and 2kms from NIT Rourkela campus respectively. The airports near to Rourkela are Ranchi, Bhubaneswar and Kolkata. Rourkela is well connected to these cities by rail and train frequency is very good.

A FIVE DAY SHORT TERM COURSE ON
Advanced Manufacturing Systems and Metallurgical Studies towards Steel Industry Needs

27-31 May 2019

PATRON
PROF. ANIMESH BISWAS
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