

ABOUT ROURKELA

Rourkela is one of the centers of Indian SAIL industry. It is situated in northern region of the state Orissa and close to Ranchi and Tatanagar. It is the headquarters for Sundhargarh district which is known for green valleys of the nature. With German sponsorship, the steel plant has started in early 1950s and has now developed in its full scale. The city is situated in the north eastern railway division of Kolkata-Mumbai route. There are good number of waterfalls, and dams around the city. It is approximately 400 km from Bhubaneswar, 100 km from Ranchi and 300 km from Kolkata. NIT Rourkela campus is located in residential sector which is around 10 km from Rourkela railway station.

ABOUT NIT ROURKELA

National Institute of Technology, Rourkela (founded as Regional Engineering College, Rourkela) has been presently offering B.Tech, M.Tech, MBA and MCA Courses in various disciplines with annual intake of about 2000 students. Institute also offers excellent facilities for advanced research in the emerging areas of Science and Technology leading to Ph.D. degree. The institute has well qualified and dedicated faculty along with finest supporting staff, laboratories and other infrastructure. The syllabus and the curricula are constantly being updated to meet the growing demands and need of the country in different areas of technology. The infrastructure is geared to enable the Institute to turn out technical personnel of a high quality.

ABOUT DEPARTMENT

The Department of Mechanical Engineering started its illustrious journey in 1963. It provides training for the students in different disciplines of Mechanical Science as well as those under interdisciplinary programs. Department offers four streams of post graduate programs: (i) Machine Design and Analysis (ii) Production Engineering (iii) Thermal Engineering and (iv) Industrial Cryogenics. The department has good number of laboratories with latest facilities. There are various research and development projects in Mechanical Engineering. It also incorporates labs to carry out design, simulation and development on latest computer systems. The department lays strong emphasis on helping students acquire practical knowledge. It has played a key role in motivating and assisting the students to freely explore the departmental resources and carry out academic activities.

IMPORTANT DATES

Last date of Registration: April 20, 2018
Notification about Selection: April 25, 2018
Participants' Confirmation: May 1, 2018

CONTACT DETAILS

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TEQUIP-III Sponsored Short Term Course

On Advances in Computer Aided Design and Manufacture (ACADM-2018)

May 21-25, 2018



Coordinator
Dr. J.Srinivas

Organized by
Mechanical Engineering Department
National Institute of Technology
(An Institute of National
Importance)
Rourkela- 769008
Odisha, India

INTRODUCTION

Computer aided design and manufacture is a rapidly progressing technology. Many branches of engineering, now-a-days play attention on the computer aided design tools. Design with the use of geometric models and their analysis is the first part of CAD. Design review and evaluation of geometry is carried-out using rapid prototyping approaches. The functional prototypes are fabricated with CAM which in turn encompasses four phases. Process planning is a critical part where a step-by-step procedure of moving the cutting tool and work pieces is constructed. NC (numerical control) programming is another vital part in use of NC machines. Apart from learning a teaching course, principles may be also implemented in a practical manner.

OBJECTIVES OF THE COURSE

The objective of this short term course is to enrich the knowledge of participants in the emerging concepts of CAD/CAM both theoretically and practically. Participants will be able to apply these concepts in their teaching and research work and able to add them into their courses.

SCOPE

- Historical Development in CAD/CAM
- Surface and Solid Modeling methods.
- Analysis and Optimization schemes
- Virtual and Rapid prototyping techniques
- NC Technology and Programming.
- Production management and MRP.
- Computer integrated manufacturing.
- Practical sessions on SolidWorks, Adams and Mastercam.

EXPERT LECTURES DELIVERY

Lectures will be delivered by distinguished faculty members from IITs, NITs and professionals from industries.

WHO SHOULD ATTEND

Faculty members, research scholars and students from engineering institutions and professionals from Industry & R&D units can attend the course. Application should be made on the registration form and should accompany registration fee as below:

Participants	Amount (Rs.)
Academic Faculty and students	2500/-
Professionals from Industry & R&D Units	5000/-

Fee includes course material, lunch, tea and snacks. Accommodation will be arranged in the institute guest house Boarding and lodging charges are waived as per TEQIP rules. Participants have to book their two-and fro tickets only. The laboratory sessions are arranged in Department computational laboratory. Participants will be selected on first-come-first serve basis up to a maximum of 30.

The complete registration form accompanied by DD/ Cheque of requisite amount may be mailed well in advance as attachment. The demand draft/cheques should be made in favour of "Director, NIT Rourkela" payable at Rourkela. The brochure with registration form can be downloaded from Institute website www.nitrkl.ac.in

APPLICATION FORM

**TEQIP-III Sponsored
Short Term Course on
Advances in Computer Aided
Design and Manufacture
(ACADM-2018)**

(May 21-25, 2018)

Name:

Designation:

Gender:

Highest Qualification:

Experience:

Organization:

Address:

E-mail:

Mobile No:

DD/cheque No:

Bank Name:

Signature of Applicant