

Course Contents

- ❖ Introduction to Robotics: Classification, System Architecture, Locomotion and Applications.
- ❖ Motion Analysis of Various Robots: Industrial Robots and Wheeled Mobile Robots.
- ❖ Actuators and Sensors in Robotics.
- ❖ Robotics in welding, Assembly and grasping applications.
- ❖ Optimization techniques of mobile robot navigation
- ❖ Optimization techniques of industrial robot trajectory planning
- ❖ Optimization techniques of assembly sequence planning
- ❖ Real time Projects: Assembly & Interfacing of various robots for specific tasks

How to participate

Interested candidates need to download the Registration form, fill it up and send it along with the necessary DD to the address for correspondence, so as to reach the destination before November 25, 2017.

Registration Details

Industry delegates:	Rs. 1500
Delegates R&D /Academic Institutions	Rs. 1000
Student/Research Scholar	Rs. 600
Delegates from outside India	€200 or US \$ 300

➤ **Course fee doesn't include accommodation**

Mode of payment

Payment should be made through a demand draft in favor of "Continuing Education, NIT Rourkela" Payable at SBI – Rourkela (Branch Code-2109).

Important Dates

Last Date of Receipt	25/11/2017
Intimation letter to be mailed	27/11/2017
Course commence	21/12/2017

About NITR

NIT Rourkela is an Institute of National Importance in the country and is one of the top ranking institutes in India. The city of Rourkela is a bustling industrial town, cosmopolitan by nature and is well connected to all parts of the country by road and rail. It is en-route Howrah-Mumbai main line of South-Eastern Railway. Nesting amidst greenery on all sides, NIT campus is approximately 7 kms from Rourkela railway station. The nearest airports are Ranchi, Kolkata and Bhubaneswar which are well connected by trains.

About Industrial Design Department

The Department of Industrial Design, established in 2010, is the latest addition to the engineering disciplines of NIT Rourkela. The course curriculum for the programme has been meticulously designed with inputs from several other institutes of higher learning and reputed industries to cater to the need of the present day need of the industries. The Department has various laboratories with state-of-the-art technology.

Short Term Course Objective

In the present era, Robotics has accentuated in industrial applications. The present course intends to equip participants with broad knowledge and essential skills necessary to develop robotic systems for practical applications with optimized conditions. This is a project based course supported by state-of-the-art laboratory facilities.

Contact

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Empowering Engineers To Empower
Society

**A SHORT TERM COURSE
ON**

**Optimization Techniques
in
Industrial Robotics
(OTIR-2017)**

Dec. 21 – 23, 2017



Organized by

**Industrial Design Department
Creative Automation Lab**

National Institute of Technology, Rourkela
Odhis-a-769008

➤ **Based on the availability, the participants will be provided accommodation in the students hostel / guest house of the institute on payment basis.**