

**AICTE Training and Learning (ATAL)
Academics Programme**

On

ROBOTICS

[December 23-27, 2019]

Coordinator

Dr. Vijay Kumar Dalla

PhD (Robotics), IIT Roorkee

Asst. Prof., MED NIT Jamshedpur



Organized by

Department of Mechanical Engineering

National Institute of Technology Jamshedpur

in

**Collaboration with AICTE Training And
Learning (ATAL) Academy, Guwahati**



**Organizing Committee
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Resource Persons

The speakers will be drawn from IITs, NITs, industries and other reputed organizations. Some speakers will be from National Institute of Technology Jamshedpur.

For

Participants have to be faculty of AICTE approved institutions/ Host Institutions/Research Scholar/PG Scholar

Important dates:

Registration Closes on: 01.12.2019

Acceptance: 05.12.2019

Notes:

- No registration fee.
- Lunch will be provided.
- No TA/DA will be provided for attending the course.

Registration Form (for offline)

(Online registration is more preferable, if possible)

ROBOTICS

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Name:

Designation:

Qualification:

Department:

Institute:

Mailing Address:.....

Male/Female.....

Email:

Mobile No:

Vegetarian/Non-Vegetarian:.....

Signature of applicant

Recommendation

Signature of Head of the Department with seal

About Institute and Jamshedpur

National Institute of Technology Jamshedpur was originally founded as Regional Institute of Technology in 1960. Later, upgraded to National Institute of Technology on 27th December 2002. In 2007 it is declared as Institute of National Importance. It is now totally under the control of Ministry of Human Resources Development (MHRD), Government of India, New Delhi, since April 2003. The institute offers B.Tech, M.Tech., Ph.D., M.C.A., M.Sc. degrees in various disciplines of Engineering, Sciences, Management and Humanities.

About the Department

The Department of Mechanical Engineering offers an undergraduate program in Mechanical Engineering and postgraduate programs in Computer Integrated Design and Manufacturing, Thermal Engineering and Energy System Engineering and PhD program in various research areas. The department also runs three year certificate course in Mechanical Engineering for the employees of Tata Steel under Continuing Education Program. The Department has well qualified and experienced faculties and well - established laboratories to meet the requirement of UG, PG and PhD students

About ATAL Academy Guwahati AICTE

Training And Learning (ATAL) Academy, Guwahati was digitally announced with establishment of other three Academies in the country at Vadodara, Guwahati & Trivendram by MHRD, Government of India on 24.9.2018. Some of the objectives of ATAL being: ‡To support technical institutions in fostering research innovation and entrepreneurship through training ‡To stress upon empowering technical teachers & technicians using Information & Communication Technology ‡To provide a variety of opportunities for training and exchange of experiences such as workshops, orientations, learning

communities, peer mentoring and other faculty development programmes

Objective

To facilitate the exchange and dissemination of ideas among the faculties of Science, Technology and Engineering stream about new contemporary development in the domain of Robotics, collaborative workspace, COBOTS and advanced manufacturing technology in general and in particular among industry people. Also, to provide a platform to present innovations and research in robotics, its application in industry to improve productivity and efficiency in order to make Indian industries to stand with an edge of advantage in contemporary cut-throat competitive world of manufacturing/production such that to reach out with sustenance to the aim of “Make In India” and defense production autonomy.

Topics of Training Course:

- Introduction to robotics
- Kinematic modeling: transformations, forward kinematics and validate using a software (Robo Analyser or any other free software tool).
- Dynamic modelling, Bond Graph Technique
- Euler-Lagrange formulation
- Vision System, applications in robotics
- Sensors
- Robot Control, control experiment using Symbol Shakti software,
- Robot actuation systems,
- Control hardware and interfacing

Number of seats: 50

Accommodation:

The participants may be provided accommodation in the institute hostels depending on the availability and on a nominal payment basis as per actual on First-cum-First Serve Basis. Accommodation can also be

booked in nearby hotels directly or through prior information to organizers.

Registration Fee: Free

Registration Link (For online):

<https://forms.gle/Nf66HAXPd5w4PC8k9>

- It is advised to send scanned copy of duly signed registration form and transaction receipt by email.
- If registration is done by online, then send scanned copy of transaction slip by email. Offline Registration form can be sent on the following email id: vijaydalla.me@nitjsr.ac.in of coordinator.

Spot registration is also admissible depending upon availability of seats.

Conduct of Test and Issuance of Certificate

- A test shall be conducted at the end of the program.
- The certificate shall be issued to those who have attended the program without any absenteeism and scored minimum 60% marks in the test.

Address for correspondence of Coordinator:

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Student Coordinators:

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