

Dear Sir/Madam,

We are pleased to inform you that the National Institute of Technology Durgapur is going to conduct TEQIP III sponsored short term course on "**Robotics and Assistive Technologies (RAT2019)**" from January 3–5, 2019 under Mechanical Engineering Department at NIT Durgapur. We cordially invite you to participate the training program.

You can present posters / show case models on robotics / assistive technologies in front of eminent researchers and industry personnel.

The detail information regarding the short term course is given below.

Title of the Programme: Robotics and Assistive Technologies (RAT2019)

Duration of the Programme (dates): 03 days, 3 - 5 January, 2019

Organized by (Dept.): Mechanical, Electrical and Computer Science & Engineering

Registration fees (includes only lunches on all the three days, certificates):

- Faculty/Staff: Rs.3000/- (Three Thousand only)
- Industry: Rs.6000/- (Six Thousand only)
- Ph.D. Scholars: Rs.2000/- (Two Thousands only)
- PG/UG Students: Rs.1000/- (One Thousand only)

Accommodation will be arranged at the Institute Guest House or at near-by hotels on payment basis.

Brief Theme of the Programme: Please see Annexure-I (below)

Coordinators:

- i) Dr. N. B. Hui, Professor, Department of Mechanical Engineering,
Email: nirmal.hui@me.nitdgp.ac.in, Mobile: 9434788117
- ii) Dr. Jayati Dey, Associate Professor, Department of Electrical Engineering
Email: jayati.dey@ee.nitdgp.ac.in, Mobile: 9434788173
- iii) Dr. Deepanwita Das, Assistant Professor, Department of Computer Science and Engineering, Email: deepanwita@cse.nitdgp.ac.in, Mobile: 9434788179

Members:

Dr. P. Kumbhakar	Dr. S. Das
Dr. T. K. Saha	Dr. B. Sen
Dr. C. Koley	Dr. D. R. Kisku
Dr. S. S. Roy	Dr. A. Sharma
Dr. S. Choudhury	Dr. S. Saha
Dr. S. Nandi	Dr. A. Chandra
Dr. R. Ghatak	Dr. S. Mondal

Resource Persons (tentative): Please see Annexure-II

Registration form: Please see Annexure-III

ANNEXURE-I

BROAD OBJECTIVES

In the present era, robotics finds its use much beyond manufacturing and extends to areas like e-commerce, logistics, retail, healthcare, disaster management, smart-homes, assistive technology among others. The overlap between Robotics and Artificial Intelligence cannot be overemphasized. Both Government of India and Government of West Bengal are taking initiative in this area and a large number of researchers are working in the field. The main aim of this program is to explore the need of robots for an Industry and role of Government and discuss issues of applications of robots in the society. Also, discussion will be made in line of the need and benefits of different assistive technologies for the differently abled persons. The present course will ignite the young minds to think in the field of robotics and assistive technology and give back to society. No prior knowledge in this field is necessary. We are only aiming towards the young and enthusiastic peoples to get involved in these areas of research.

THEME AREAS OF WORKSHOP

- Introduction to Robotics
- Robotics in Industrial Control
- Assistive Technology and Robotics

WHO MAY BENEFIT

Faculty, Scientists, Research scholars and P.G. students from academic institutes, would benefit from the proposed course. This course would provide an excellent opportunity for the students to interact with each another and discuss problems and solutions of mutual interest. Also, they can showcase their models / research ideas through posters in front of eminent researchers and industry personnels.

Topics Covered:

- Basic Robotics
- Bipedal Locomotion
- Status of robotics and automation in different industries
- Missile Assembly and Control
- Assistive Technologies for Cerebral Palsy Patients, visually impaired, motor disabilities etc.
- Wheelchair design – different standards and users perspectives.

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ANNEXURE-II

Resource Persons (tentative):

- (i). Prof. Anupam Basu, Director, NIT Durgapur
- (ii). Dr. Akila Surendran, NISH Trivandrum
- (iii). Dr. Swati Chakraborty, IICP Kolkata
- (iv). Dr. Rajlakshmi Guha, IIT Kharagpur
- (v). Dr. Manjira Sinha, IIT Kharagpur
- (vi). Dr. Tirthankar Dasgupta, TCS
- (vii). Prof. D. K. Pratihar, IIT Kharagpur
- (viii). Dr. Kishorenath, Scientist G and Project Director, Advanced Systems Laboratory, Hyderabad, DRDO
- (ix). Mr. Nekram Upadhyay, Indian Spinal Injuries Centre, New Delhi
- (x). Representatives from National Institute of Locomotors Disabilities, Kolkata
- (xi). Mr. Aneesh P.A., R& D SAIL, Ranchi
- (xii). Representative(s) from R&D SAIL, Ranchi, Kuka Robots India, ABB Ltd., Systemantic India Pvt. Ltd., M/s, Edutech India Pvt. Ltd.

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ANNEXURE-III

REGISTRATION FORM

**TEQIP-III Sponsored short-term course on Robotics and Assistive Technologies
(RAT2019)**

**Jointly Organized by
Department of Mechanical, Electrical and Computer Science & Engineering,
National Institute of Technology
Durgapur, West Bengal – 713209, India**

1. Name:
2. Designation & Affiliation:
3. Male/Female:
4. Mailing Address:
5. Telephone No. : _____ Mobile No.: _____
6. E-mail ID:
7. Payment of Registration Fees: Payments can be made in the form of draft /cheque drawn in favour of "CEP-STC NIT Durgapur"
8. Accommodation Required (if any): Yes / No
Duration:
Single Occupancy / Double Sharing
9. Vegetarian / Non-Vegetarian:
N.B.: Photocopy of this form may also be used for registration.

Place: _____

Date: _____

Signature of the Applicant

Signature and Seal of the Head of the
Department/Institute/Dean

N. B. (i) For regular students only photo ID proof is required.

(ii) Participants are requested to confirm their participation beforehand through email (nirmal.hui@me.nitdgp.ac.in / jayati.dev@ee.nitdgp.ac.in / deepanwita@cse.nitdgp.ac.in) as the number of seats is limited.