

# ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON

## Industrial Automation and Robotics

(1 – 13 August, 2022)

Organised by

Electronics & ICT Academy, NIT Warangal

in association with

JSS Academy of Technical Education, Bengaluru.

(Sponsored by Ministry of Electronics and Information Technology (MeitY), Govt. of India)



### Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes (FDPs) in standardized courses and emerging areas of Electronics, Information Communication Technologies, training and consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

### About the FDP:

This Faculty Development Program (FDP) is designed to focus on current advancements in Industrial automation & Robotics. It enables a scientific discussion on the latest developments in Robotics and Industrial Automation, it's up to date application in the mechanical and production industries, use of control systems such as computers, PLCs and Microcontrollers are used to operate machinery and processes. Nowadays, with the drastic changes in the industrial scenario and industrial competitiveness, excellence in manufacturing industries is being recognized as a major force and it has made robotics & automation an emerging field for industry and academics. The main objective of this FDP is to discuss the basics of robotics and its primary application in manufacturing. This course will benefit participants from academics, R&D institutions, utility engineers and policymakers

### Major Course Contents:

- Introduction to Robotics
- Basics of Robot Construction
- Actuators in Mechanism
- Robot Motion Planning
- Microcontroller and intelligent sensors
- Programmable Logic Controllers
- Human Machine Interface
- Supervisory Control and Data Acquisition
- Advances in Robotics
- Robot Manipulators
- Visual servoing
- Distributed control systems

### Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal as well as Academicians in the concerned field from IITs/NITs/IIITs and other reputed Institutes. Speakers from industries are also expected to deliver as part of the course

### Registration Fee Particulars:

Faculty and Research Scholars	Rs.500/-
Industry Participants	Rs.1500/-

Participants need to pay the Registration Fee Online using the following details

Online Transfer Details
Account Name: <b>Electronics &amp; ICT Academy NITW</b>
Account No: <b>62423775910</b>
IFSC: <b>SBIN0020149</b>
Bank and Branch: <b>State Bank of India, NIT (REC) Warangal</b>

### How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/Zxh9btqxR6yPzez49>

### Selection Criteria:

Selection will be made based on first-come-first-serve basis to a maximum number of 50 (fifty). Additionally, 10 participants from the industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

### Important Dates:

Last date (Application & DD)	25.07.2022
Selection List by E-mail	26.07.2022
Duration	01.08.2022 to 13.08.2022

### About NIT Warangal:

National Institute of Technology, Warangal is the first among 17 RECs setup as a joint venture of the Government of India and the state government. Over the years, the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

### About JSS Academy of Technical Education, Bengaluru:

JSS Academy of Technical Education (JSSATE) was established in the year 1997 at Bengaluru and is under the umbrella of JSS Mahavidyapeetha, Mysuru. JSSATE is the result of the vision of our President, His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji to proactively participate in establishing a world-class Institution for Technical Education. JSSATEB has seven Under Graduate and four Post Graduate programs in Engineering along with a Post Graduate program in Business Administration. All the Departments have been recognized as "research Centres" from VTU, Belagavi. The Institute has highly qualified faculty. The Institute has initiated a number of multidisciplinary and multi-institutional R&D programs with AICTE, DST and other Departments. Under the R & D activity, the Institute has taken up the design and fabrication of bio-diesel plant in collaboration with an industry and it is sponsored by the Department of Science & Technology (DST), Government of India. This was recognized as one of the best-completed projects and the same is being replicated in different states.

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1. Name :

2. Designation :

3. Institution :

4. Email :

5. Mobile No. :

6.

Reference/NEFT/UTR No :

Amount:

Bank :

Date:

7. Address for Correspondence:

8. Educational Qualification:

9. Subjects taught so far:

10. No. of refresher courses/workshops attended:

11. Experience (in years):

Teaching:                  Research:                  Industry:

12. Do you belong to SC/ST :    YES / NO

### Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Date

Signature of the Applicant

### SPONSORSHIP CERTIFICATE

Dr./Mr./Ms. .... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on **“Industrial Automation and Robotics”** sponsored by **Electronics & ICT Academy, NIT Warangal**, during **1–13 August 2022** at **JSS Academy of Technical Education, Bengaluru**.

Signature of Head of Institution  
(with seal)

### Registration Link:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/Zxh9btqxR6yPzez49>

For more details about Electronics & ICT Academy, NIT, Warangal, please visit:

<https://nitw.ac.in/eict>

### For more enquiries, please contact:

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Vice-Principal

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## Coordinators

### Dr. Bhimasen Soragaon

Vice-Principal

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### Dr. V. Vasu

Associate Professor

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## Co-coordinators

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