Preamble:
"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GOI. The role of academy is to offer faculty development programmes in emerging areas of Electronics, Information Communication Technologies; training & consultancy services for Industry; Curriculum development for Industry; CEP for working professionals; Advice and support for technical incubation and entrepreneurial activities. Under the umbrella of this academy, a standardized course namely 'ICT In Advanced Manufacturing Engineering' is proposed.

Industry 4.0 is a name given to the current trend of automation and data exchange in manufacturing technologies It includes cyber-physical systems, the Internet of things, cloud computing and cognitive computing. Industry 4.0 is commonly referred to as the fourth industrial revolution. The characteristics are given for the German government's Industry 4.0 strategy are the strong customization of products under the conditions of highly flexible (mass) production. The required automation technology is improved by the introduction of smart manufacturing methods of self-optimization, self-configuration, self-diagnosis, cognition and intelligent support of workers in their increasingly complex work.

Major Course Contents:
- Industry 4.0 : Concepts & Principals
- Building Blocks of Industry 4.0
- Smart manufacturing
- Mechatronics & SCADA
- Robotics & Automation
- Artificial Intelligent, Machine Learning & Deep Learning
- Cloud Computing
- Big Data & Analytics
- Augmented reality & Virtual Reality
- IIOT
- Cybersecurity
- 3D Printing
- Supply Chain Management & PLM
- Condition Monitoring of Manufacturing Systems
- Case studies on Advanced Manufacturing Engineering.
- Modelling & Simulation of I4.0 Systems using different software’s

Faculty conducting this programme:
The programme will be conducted by the faculty members from NIT Warangal. Experts in the concerned field from Industries and IIT are invited to deliver lectures in the programme.

Eligibility:
The programme is open to the Faculty and PhD scholars of Mechanical Engineering and allied disciplines in Telangana, Andhra Pradesh, Karnataka states and Puducherry, Andaman and Nicobar Islands, Lakshadweep UTs. Industry personnel working in the concerned/allied discipline can also attend.

Registration Fee Particulars:
| Faculty and Research Scholars / PG Students | Rs. 500/- |
| Industry Participants                      | Rs. 1500/- |

How to apply:
Participants are required to fill in the online registration form given in the
https://docs.google.com/forms/d/e/1FAIpQLSdp8PwqT3kvnR21U-PZ20Eihcqt-hujbLph7X63Q9dfiA/viewform?usp=sf_link

Selection Criteria:
Selection will be done based on first-cum-first-serve basis and the confirmed candidates will be notified immediately. The maximum number of participants will be 50 (fifty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be notified in the institute web site www.nitw.ac.in and also will be sent to their personal e-mail ids. In case a candidate is not selected, the demand draft will be returned. A test will be conducted at the end of the course. 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) | 15/02/2022 |
| Selection-list intimation by e-mail | 17/02/2019 |
| Duration of Program | 19/02/2022 – 26/02/2022 |

About the Institute, Department & Warangal:
National Institute of Technology, Warangal is the first among 17 RECs setup as 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 programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

The department of Mechanical Engineering offers an UG program, seven PG programs and a Ph.D program as well. There are 39 qualified and experienced faculty in the department. The department has liaison with reputed industries and R&D organizations like NFTDC, BHEL, DMRL, DRDL, CMTI, etc. Presently the department is handling several R&D projects and consultancy works. The department has also been recognized as a QIP centre for M. Tech and Ph.D programs.

Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140Km. from Hyderabad. Warangal is well connected by rail and road. National Institute of Technology campus is 2 Km. away from Kazipet junction and 12Km. away from Warangal station.
ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

INDUSTRY 4.0 & SMART MANUFACTURING
(19th - 26th February, 2022)

Organized by
E & ICT Academy and Department of Mechanical Engineering
NIT Warangal

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. …………………………….. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “INDUSTRY 4.0 & SMART MANUFACTURING”, sponsored by Electronics & ICT Academy during 19th – 26th February – 2022 at NIT Warangal.

Signature of Head of Institution
(with seal)

For more details about Electronics & ICT Academy, NIT, Warangal, please visit:
https://nitw.ac.in/eict

Submit Registration form and duly signed application through the following link
https://docs.google.com/forms/d/e/1FAIpQLSdp8PwgTp3kynR21U-PZz20Eihcgf-hujbLph7X63O9f0ifA/viewform?usp=sf_link

Coordinators

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