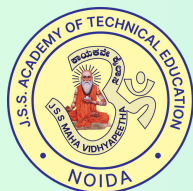


# ONE WEEK FACULTY DEVELOPMENT PROGRAMME

## on "Industry 4.0 Skill Development using AICTE IDEA LAB"

20-11-2023 to 25-11-2023

Sponsored By  
AICTE Training and  
Learning (ATAL) Academy



Organized by  
Department of Electrical & Electronics  
Engineering  
(UG Program NBA accredited)

JSS Academy of Technical Education, Noida

C-20/1, SECTOR-62, NOIDA-201301

Phone: +91-120-2400115, [www.jssaten.ac.in](http://www.jssaten.ac.in)

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HoD, EEE  
JSSATE, Noida.

### Co-coordinator



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EEE, JSSATE, Noida

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EEE, JSSATE, Noida

## ABOUT JSS MAHAVIDYAPEETHA

JSS Mahavidyapeetha was established in the year 1954. The Jagadguru Sri Shivarathreeswara Mahavidyapeetha has been described by many eminent educationists as greater than a University, because under its aegis a child can begin its education in the kindergarten and proceed to earn a degree as well as a doctorate in several branches of learning. Simultaneously the Mahavidyapeetha has not neglected to strengthen the roots of our ancient knowledge, wisdom and culture and their application in the day-to-day life. Sanskrit Pathashalas, Yoga Kendras, Spiritual Retreats, Gurukulas, Art and Cultural forums are doing this work. Today the Mahavidyapeetha has grown into a center of learning that guides more than 350 institutions spread throughout Karnataka, neighboring Tamil Nadu and also in Uttar Pradesh. JSS Mahavidyapeetha has also set up institutions at Mauritius, Dubai and USA. Every year thousands of aspirants of education and knowledge join the fold of the Mahavidyapeetha. Distinguished national leaders including the first President of India, Dr. Babu Rajendra Prasad, the former President Dr. A P J. Abdul Kalam, Former Prime Minister Sri Atal Bihari Vajpayee have visited JSS Mahavidyapeetha and paid rich tribute to services rendered by the Mahavidyapeetha.

## ABOUT THE INSTITUTE

JSS Academy of Technical Education, Noida (JSSATEN) is one of the leading Technical Institutions in Delhi-NCR. Established in the year 1998 by JSS Mahavidyapeetha, Ghaziabad. The Institution has set benchmarks every year, and grown into an Institution of Excellence in Technical Education. The Institution has MoUs with Texas Instruments Centre of Excellence, Nokia Mobile Innovation Labs, e-Yantra - Embedded & Robotics Lab funded by MHRD under NMEICT, Schneider Electric Substation Automation Labs and Centre for Innovation & Design are additional facilities for the students to innovate new ideas. JSSATEN is proud to mention that it has created necessary manpower and infrastructure to implement Outcome Based Education from the year 2014-15. JSSATE, Noida got the NIRF rank band 201 to 250 in 2020 and 251-300 in 2021. JSSATE, Noida got the QS I-GUAGE Gold rating.

## CAMPUS HIGHLIGHTS

- More than 250 Faculty members. More than 4200 Students.
- 28 Acres of lush green campus in Delhi/NCR.
- On campus Boys & Girls Hostels.

## SALIENT FEATURES

1. In a recent survey conducted by the Education World Magazine, JSSATE Noida, has secured 2nd Rank in the State of UP and 20th Rank at the National Level, among the top 100 Private Engineering Colleges in India.
2. Ministry of Education (MoE) Innovation Cell Gol awarded 4/5 Golden Star ranking for the Academic year 2020-21.
3. Five Departments (CSE, ECE, ME , EE & EEE) are accredited by National Board of Accreditation.
4. AICTE Clean and Green Campus Award 2017- JSSATE, Noida stood I-Position in Northern Region and VII-Position at the National level.
5. Nodal Centers for the Grand Finale of Smart India Hackathon 2017, 2018 & 2019.
6. Received an award from Hon'ble HRD Minister Shri Prakash Javadekar on 21 November 2018 for the constitution of Institution Innovation Council (IIC).
7. JSSATE, Noida got the QS I-GUAGE Gold rating.
8. Selected as Nodal Centre for "Value Education" under Dr. APJ AKTU Lucknow. Selected as Nodal Centre for Spoken Tutorial Training of IIT Bombay.
9. Nominated as National Cyber Defense Resource Centre under National Cyber Safety and Security Standards [NCSS] under NCDRC, New Delhi.
10. Projects sanctioned under Central Government Flagship
  - Unnat Bharat Abhiyan (UBA), Swachh Bharat Abhiyan (SBA),
  - Sansad Adarsh Gram Yojana (SAGY), Pradhan Mantri Kaushal Vikas Yojna (PMKVY-TI).
  - Swachh Bharat Summer Internship [SBSI].
11. In the recent survey conducted by the Times Engineering Institute Ranking Survey-2021, JSSATE Noida secured 72nd Position at all India level.
12. JSSATE, Noida has selected for the AICTE-IDEA Lab project with funding of 110 Lakhs.



## VISION OF THE INSTITUTE

JSS Academy of Technical Education Noida aims to become an Institution of excellence in imparting quality outcome-based education that empowers the young generation with knowledge, skills, research aptitude and ethical values to solve contemporary challenging problems.

## MISSION OF THE INSTITUTE

The mission of JSS Academy of Technical Education, Noida is to

1. Develop a platform for achieving globally acceptable level of intellectual acumen and technological competence
2. Create an inspiring ambience that raises the motivation level for conducting quality research
3. Provide an environment for acquiring ethical values and positive attitude

## ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering is the youngest department at JSS Academy of Technical Education, Noida, preparing over 70 graduate students each year in the domain of Electrical and Electronics. It holds pride in equipping the young minds with a curriculum in Electrical and Electronics Engineering at the undergraduate level which lays a strong foundation of basic and advanced Electrical and Electronic Engineering concepts. In addition to theoretical education, hands-on experience is imparted to the budding engineers with the help of state-of-the-art laboratories.

From creation of systems to provide power for homes and industry, the department makes an impact in the quality of life world-wide. As proficient engineers, the students of Electrical and Electronics Engineering will have a strong background in Mathematics, Physics, Chemistry, a broad base in the humanities and social sciences, as well as introductory engineering coursework. The program in Electrical and Electronics Engineering encompasses all areas of research, development, design, and operation, in the field of powering our world from renewable energy sources, creation of electronic devices, Power electronic circuits to drive robots and electric vehicles, Communications and signal processing. The graduates are equipped to undertake important and challenging positions in the aerospace, chemical, nuclear, automotive, medical, metallurgical, textile, railway, petroleum, computers, electronics, communications, power, food, safety sectors and other mechatronic industries. Important personal attributes that have been imbibed in them include the art of self-learning, teamwork, and an appreciation for ethical conduct.

## VISION OF THE DEPARTMENT

Emerge as a premier department of Electrical and Electronics Engineering, a source of technically outstanding energetic engineers, entrepreneurs and leaders through its highest quality academics and research

## MISSION OF THE DEPARTMENT

- Provide the students with basic and advanced knowledge in the field of Electrical and Electronics Engineering as well as professional skills necessary to face the challenges of the future.
- Encourage the students to strive for excellence through innovation and collaborative research activities.
- Imbibe students with qualities like team work, managerial skills and ethical & cultural values to work in a collaborative environment.

## ABOUT THE FDP

This FDP is regarding Industry 4.0 skills sets which refers to the fourth industrial revolution, characterized by the integration of digital technologies, automation, data exchange, and artificial intelligence into various manufacturing and industrial processes. The All India Council for Technical Education (AICTE) is a regulatory body in India that focuses primarily on technical education and skill development. The AICTE IDEA LAB is a platform that is set-up by AICTE (Ministry of Education, Government of India) in various Institutions across India to encourage conversion of Innovative Ideas into Prototypes and Skill Development in several Emerging Areas including the much-needed Industry 4.0 skill sets. JSS Academy of Technical Education, Noida has been conferred AICTE IDEA Lab in the year 2021 by the AICTE with total project cost of INR 1.1 Crores. In order to accelerate the vision and mission of AICTE this FDP is being proposed. The major focus area, emphasized during this FDP program shall include: Additive Manufacturing (3-D Printing), Subtractive Manufacturing (Laser Cutting and CNC Routing). During this one-week FDP participants shall be able to develop the following skills for their further career enhancement.

- Familiarization with Industry 4.0 Skills
- Need of Industry 4.0 skill-sets in today and futuristic scenarios with their applications
- Different 3D Printing Technologies

- Additive Manufacturing for Aero Space & Automotive Applications
- Environment and Sustainability Aspects of Additive Manufacturing
- Manufacturing High Quality parts with Laser Sintering
- Laser Cutter Technologies, and Applications
- CNC Router Technologies and Applications
- All the above-mentioned topics will be covered both theoretically as well as through Hands-on session within AICTE-IDEA LAB at JSS Academy of Technical Education, Noida.

This FDP will provide an opportunity to highlight important technological interventions by way of Interdisciplinary outlook, collaboration, and implementation to focus on critical needs and future areas of growth in these exciting fields.

## TARGETED PARTICIPANTS

Assoc. Prof./Asst. Prof./Research Scholars/PG Scholar

To receive a Certificate, minimum required 80% attendance and overall 70% for continuous comprehensive assessments

## RESOURCE PERSON

**Distinguished experts from both academia and industry**

## REGISTRATION (FREE)

For registration of the FDP, please visit AICTE ATAL website

<https://atalacademy.aicte-india.org/signup>

If you wish to seek any clarification, please get in touch with

## CONTACT PERSONS

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**JSS Academy of Technical Education**

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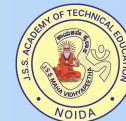
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## REGISTRATION FORM

Name : .....

Designation : .....

Department : .....

Institution : .....

Phone/Mob. No.: .....

E-mail ID : .....

Signature of the applicant : .....

Prof./Dr./Mr./Ms./Mrs ..... is permitted to attend

the workshop for the entire duration, if selected.

Place:

Date:



**Scan to Register**

**Approving Authority**  
(Signature and Seal)