

## ORGANIZING COMMITTEE

### Chief Patron:

His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamigalavaru  
President, JSS Mahavidyapeetha, Mysuru.

### Patrons:

**Prof. Vinay Kumar Pathak, Vice chancellor, AKTU, Lucknow.**  
**Dr. C.G Betsurmath, Executive Secretary, JSSMVP, Mysuru.**  
**Prof. M. H. Dhananjaya, Advisor JSSMVP, Mysuru.**  
**Dr. C. Ranganathaiah, Director(A&A), JSSMVP, Mysuru.**  
**Dr. B.G. Sangameswara, Vice chancellor JSS&T University, Mysuru.**

### General Chair:

Prof. H.K. Paliwal, Dean Faculty, AKTU, Lucknow.  
Prof. T. N Nagabhushan, Principal, SJCE, Mysuru.  
Dr. Karm Veer Arya, Dean(PG), AKTU, Lucknow.  
Prof. V.K. Singh, BOS Convenor, AKTU, Lucknow.  
Prof. J.P. Saini, Director, NSIT, New Delhi.  
Prof. J.P. Pandey, KNIT, Sultanpur.

### Programme Chair:

Prof. G. M. Patil, Principal, JSSATE, Noida.

### Programme Coordinator:

Dr. Chhaya Dalela, Head of Department,  
Department of Instrumentation and Control Engineering, JSSATE, Noida.

### Departmental Organizing Committee

Ms. Swati Mishra, Assistant Professor, JSSATE, Noida.  
Ms. Surekha Bhangari, Assistant Professor, JSSATE, Noida.  
Mr. Deependra Sharma, Assistant Professor, JSSATE, Noida.

## RESOURCE PERSONS

Eminent Professors and senior faculty members from IITs, IISc, NITs, as well as experts from industries and research centers from IOCL, BPCL, GAIL, NTPC will deliver their talks during the various sessions of the programme.

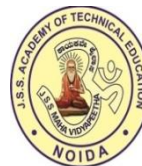
## PARTICIPANTS

- Faculty Development Programme is open to faculty members of AKTU affiliated engineering colleges.
- Research scholars & PG students pursuing research/project work in the relevant field.

## REGISTRATION DETAILS

**Registration is FREE** and will be on a first-come-first-serve basis. Duly filled registration forms to be sent to [icfdp@jssaten.ac.in](mailto:icfdp@jssaten.ac.in). Confirmation of registration will be informed by email. **Accommodation and TA/DA will not be provided. Last date of registration-30/05/2018.**

## TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAM-PHASE III (TEQIP-III)



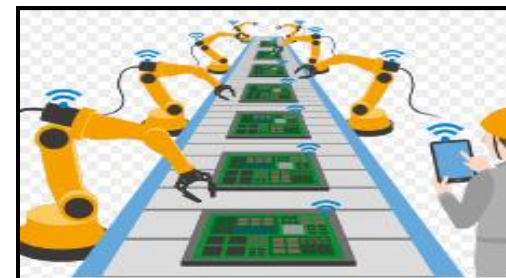
**JSS MAHAVIDYAPEETHA**  
**JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA**



**FACULTY DEVELOPMENT PROGRAMME**  
**on**

**INDUSTRIAL AUTOMATION WITH ROBOTICS AND 3D PRINTER**  
**(IARP2018)**

**(04<sup>TH</sup> JUNE – 9<sup>TH</sup> JUNE, 2018)**



**Sponsored by:**

**DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY, LUCKNOW**

**Organized by:**

**DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING**

**JSS ACADEMY OF TECHNICAL EDUCATION**

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

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



## ABOUT THE INSTITUTE

JSS Academy of Technical Education, Noida (JSSATEN) is one of the leading Technical Institutions in the National Capital Region in the State of Uttar Pradesh. Established in the year 1998 by JSS Mahavidyapeetha, Noida, the Institution has set benchmarks every year, and grown into an Institution of Excellence in Technical Education. The Institution has MOUs with Colorado Heights University, Denver, USA for student exchange program. IBM Centre of Excellence, Texas Instruments Centre of Excellence, Emerson Process Management Centre of Excellence, Nokia Mobile Innovation Labs, e-Yantra - Embedded & Robotics Lab funded by MHRD under NMEICT, PLMCC, 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. Today, JSSATEN has a total student strength of over 4000, who are mentored by more than 250 Faculty Members. The Campus has the finest accommodation for girls and boys. <http://jssaten.ac.in>

## ABOUT THE DEPARTMENT

Instrumentation and Control engineering is a multi-disciplinary stream and covers subjects from various branches such as electrical, electronics, computers, mechanical and chemical. The discipline of Instrumentation and Control engineering branched out of the streams of electrical and electronics engineering sometime in the early part of the 1970s. The department of instrumentation and control engineering at JSSATEN started in the year of 1999 that offers instrumentation and control engineering at the graduate level for regular scholars. The department has highly qualified and dedicated faculties with multi-disciplinary expertise and motivated students. The department has well equipped laboratories with the state-of-art facilities to promote research. The department focuses on preparing the students to meet global industrial challenges. The department has relationships with a number of industries and academia of national importance. Emerson Process Management has established Centre of Excellence for the department to provide facilities for research and project development for students and faculties.

<http://jssaten.ac.in/Academics/ICE/>

## AIM AND SCOPE OF THE FDP

Industrial automation is all about controlling physical processes. It involves using physical machines and control systems to automate tasks within an industrial process. Robotics can be used with industrial automation to help human workers free from dull, dirty and dangerous jobs, to improve quality by eliminating errors and reducing variability and also cut the manufacturing cost. The 3D printing machines make repeatability easy and possible, enabling endless duplication of parts that require the utmost precision with greatly reduced cost. This FDP focuses on industrial automation using robotics and 3D printing along with their impacts.

## PROGRAMME

### Day 1: 4 June, 2018, Monday

09:00 AM-09:30 AM	Registration
09:30 AM-10:30 AM	Inauguration
10:30 AM-11:00 AM	Tea Break
11:00 AM-01:00 PM	Introduction to Industrial Automation
01:00 PM-02:00 PM	Lunch Break
02:00 PM-04:00 PM	Industrial Automation: PLC, SCADA, HMI
04:00 PM-04:30 PM	Tea

### Day 2: 5 June, 2018, Tuesday

09:00 AM-11:00 AM	Industrial Automation using Robotics I
11:00 AM-11:15 AM	Tea Break
11:15 AM-01:15 PM	Industrial Automation using Robotics II
01:15 PM-02:00 PM	Lunch Break
02:00 PM-04:00 PM	Advances in Automation with Robotics
04:00 PM-04:30 PM	Tea

### Day 3: 6 June, 2018, Wednesday

09:00 AM-11:00 AM	Automation with Robotics: Equipment and Machine Integration
11:00 AM-11:15 AM	Tea
11:15 AM-01:15 PM	Robotic applications I
01:15 PM-02:00 PM	Lunch Break
02:00 PM-04:00 PM	Robotic applications II
04:00 PM-04:30 PM	Tea

### Day 4: 7 June, 2018, Thursday

09:00 AM-11:00 AM	Hands on Session on Robotics
11:00 AM-11:15 AM	Tea Break
11:15 AM-01:15 PM	Hands on Session on Robotics
01:15 PM-02:00 PM	Lunch Break
02:00 PM-04:00 PM	Global Perspective of 3D Printing Technology
04:00 PM-04:30 PM	Tea

### Day 5: 8 June, 2018, Friday

09:00 AM-11:00 AM	Impact of 3D Printing in the Industrial Growth
11:00 AM-11:15 AM	Tea
11:15 AM-01:15 PM	Hands on Session on 3D Printing
01:15 PM-02:00 PM	Lunch Break
02:00 PM-04:00 PM	Hands on Session on 3D Printing
04:00 PM-04:30 PM	Tea

### Day 6: 9 June, 2018, Saturday

09:00 AM-11:00 AM	Opportunities and Challenges of 3D Printing in Future
11:00 AM-11:15 AM	Tea Break
11:15 AM-12:30 PM	Valedictory Function
12:30 PM-02:00 PM	Lunch

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on**

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**REGISTRATION FORM**

**Name:** .....

**Designation:**.....

**Department:**.....

**Institution/Organization:**.....

**Area of Specialization:** .....

**Academic Qualification:**.....

**Address:**.....

.....

.....

**E-mail:** .....

**Contact No.:** .....

**NO Registration Fee**

**Declaration**

The above information furnished is correct to the best of my knowledge and belief.

**Signature of Applicant**

**Signature of HOD**

**Seal & Signature of Principal / Director**