

## AICTE Training and Learning (ATAL) Academy

All India Council for Technical Education (AICTE) established AICTE Training And Learning (ATAL) Academy with the vision to empower faculty to achieve goals of Higher Education such as access, equity and quality. ATAL academy supports technical institutions in fostering research, innovation and entrepreneurship through trainings, workshops, orientations and faculty development programmes in various thrust areas of modern technology.

### Participants Eligibility

- The faculty members of the AICTE approved institutions, research scholars, PG Scholars, and Industry persons.
- Preference will be given to new participants. Maximum 200 participants may be allowed to attend online FDP on a first come first serve basis. Coordinators are free to admit less number depending on the feasibility.

### Registration Process

1. Register as a participant on ATAL academy website.  
<https://atalacademy.aicte-india.org/signup>
2. After successful registration, verify your email by clicking on verification link received on provided email id.
3. Login to ATAL portal and Fill your details.
4. Click on “Workshops” tab →  
Select State → Maharashtra →  
Select Month → October →  
Select Thrust Area → Internet of Things →  
Select Mode → Online Mode
5. Select Institute → Shri Sant Gajanan Maharaj College of Engineering, Shegaon

## About the FDP

Internet of Things is the one of thrust areas of today's modern technology. IoT applications for agriculture are rapidly developing for smart farming. It is noted that 75 million IoT systems will get deployed for agricultural purposes up to 2025. There is need to study and develop IoT for Agriculture that feeding billions of people.

### FDP Contents

- Internet of Things: Basics and Architecture.
- IoT Protocols and Technologies.
- IoT Hardware Platforms.
- Low Power Design Methodologies for IoT.
- Communication Technologies for IoT.
- Machine Learning for IoT
- Internet of Things for Smart Farming.
- Case Studies for Agriculture Applications.
- IoT in Agriculture: Opportunities and Challenges.
- Sensors for Environment and Soil Parameter Sensing.
- Weather Station Design for Farms.
- Data Visualization through Cloud Platforms.
- Android App Development for Weather Monitoring.

### Certification

The certificates endorsed by ATAL academy shall be issued to those participants who will attend the FDP with minimum 80% attendance and score minimum 60% marks in the test and submit the online feedback on ATAL login at the last of FDP.

### Registration Fees

There is no registration fee to attend this FDP but registration to FDP on ATAL academy website is mandatory.

**Online Platform:** [Microsoft Teams](#) / [Google Meet](#)



**A Five Day  
Faculty Development Program on**

## **Internet of Things for Agriculture Applications**

**5 – 9, October 2020**

**Sponsored by**

**AICTE Training And Learning (ATAL) Academy**



**Organized By**

**Electronics and Telecommunication Engineering Department**

**Shri Sant Gajanan Maharaj College of Engineering,**

**Shegaon, Maharashtra State, India – 444203**



## About SSGMCE Shegaon

Shri Sant Gajanan Maharaj College of Engineering, Shegaon (SSGMCE), one of the premier institutes in the field of engineering, was established in 1983 by Shri Gajanan Shikshan Sanstha, Shegaon. It is affiliated to Sant Gadge Baba Amravati University, Amravati, recognized by AICTE, New Delhi and approved by DTE, Maharashtra State, Mumbai. SSGMCE has the recognition of being the re accredited institute by NAAC, Bangalore and the courses are also accredited by NBA (4-5 times), AICTE, New Delhi.

The Institute offers 5 Undergraduate engineering courses and 5 Postgraduate courses. All the laboratories have been recognized as centers for Ph. D. program. It has excellent physical facilities in the form of residential and academic buildings spread over neat and clean 82 acres of campus. SSGMCE is considered as one of the best institutes in the region and holds the strength to be accountable for the content and quality of education.

## About Department

The Department of Electronics and Telecommunication also established in 1983 has taken development as a continuous process and assured this through its mission. The department accredited fifth times by NBA. The department has all laboratories equipped with state of art - modern instruments and advanced software. All laboratories are recognized and approved as research laboratories for Ph.D. work by SGB Amravati University. The department has center of excellence in VLSI and DSP which is equipped with full suite of Cadence tools and Xilinx ISE. Embedded and Communication Labs are equipped with advanced microcontroller development boards, Spectrum Analyzer, Vector Network Analyzer. Our students' team won 2nd prize in Cadence Design Contest in 2019. The department has MoUs with various industries for internship, training, sponsored projects, placements and consultancy work.

## Expert Speakers

### **Dr. Satyanarayana Bheesette**

Scientific Officer (H), Dept of High Energy Physics,  
Tata Institute of Fundamental Research (TIFR), Mumbai

### **Dr. Shashikant Sadistap**

Chief Scientist, CSIR,  
Central Electronics Engineering Research Institute (CEERI), Pilani

### **Mr. Santosh Sam Koshy**

Joint Director,  
Centre for Development of Advanced Computing (CDAC), Hyderabad

### **Mr. Abhijit Joshi**

Sr. Vice President, Jain Irrigation Systems Ltd, Jalgaon

### **Mr. Madhukant Patel**

CTO, Teksun Inc, Former Scientist, ISRO

### **Dr. K. B. Khanchandani**

Professor, Electronics and Telecommunication Engg. Dept,  
SSGMCE, Shegaon

### **Dr. Satyam Srivastava**

Scientist, CSIR,  
Central Electronics Engineering Research Institute (CEERI), Pilani

### **Dr. Pravin Wankhede**

Asst. Prof., E & TC Dept, SSGMCE, Shegaon

### **Prof. Vivek Ratnaparkhi**

Asst. Prof., E & TC Dept, SSGMCE, Shegaon

### **Mrs. Sneha Gachake**

Certified Yoga Trainer



## Organising Committee

### **Chief Patron**

#### **Hon'ble Shri Shivshankarbhau Patil**

Chairman, Shri Gajanan Shikshan Sanstha, Shegaon

### **Patron**

#### **Hon'ble Shri Shrikantdada Patil**

Managing Director, SSGMCE, Shegaon

### **Organising Chair**

#### **Dr. S. B. Somani**

Principal, SSGMCE, Shegaon

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Head, Electronics and Telecommunication Engineering Dept,  
SSGMCE, Shegaon

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