



Bansilal Ramnath Agarwal Charitable Trust's  
**Vishwakarma Institute of Technology**  
Department of Electronics & Telecommunication  
Engineering

### Short Term Training Program

On

### Internet of Things and Smart Cities

18<sup>th</sup> to 22<sup>nd</sup> September 2017

#### REGISTRATION FORM

Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Department : \_\_\_\_\_

Organization : \_\_\_\_\_

Address : \_\_\_\_\_

Contact No. : \_\_\_\_\_

E-mail ID: \_\_\_\_\_

D.D. Number with Date : \_\_\_\_\_

Name of the Bank : \_\_\_\_\_

Amount : \_\_\_\_\_

Signature of the Participant :

#### CHIEF PATRONS

**Shri. Rajkumarji Agarwal**  
Chairman, BRAC, Pune

**Shri. Bharat R. Agarwal**  
Managing Trustee, BRAC, Pune

**Shri. Bajrangadas B. Lohiya**  
Vice Chairman, VIT, Pune

**Prof. Dr. Rajesh M. Jalnekar**  
Director, Vishwakarma Institute of  
Technology, Pune

#### CONVENER

**Prof. Dr. Shripad Bhatlawande**  
Head,  
Department of  
Electronics & Telecommunication Engineering

#### COORDINATORS

**Prof. Anuprita Mande**  
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Contact no: 9764009173

**Prof. Kalpesh Joshi**  
kalpesh.joshi@vit.edu  
Contact no: 9404972791

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**Prof. Dr. Shripad Bhatlawande**

#### ORGANIZED BY,

Department Of  
Electronics and Telecommunication Engineering  
And  
SGM Technologies Pune



#### Vishwakarma Institute of Technology

(An Autonomous Institute affiliated to  
Savitribai Phule Pune University )  
666, Upper Indira Nagar, Bibwewadi, Pune -37.

Website : [www.vit.edu](http://www.vit.edu)

## About the Institute and Department:

Vishwakarma Institute of Technology, Pune, a highly commendable private institute occupies a place of pride amongst the premier technical institutes of the western region of India. Established in the year 1983 and financed and run by Bansilal Ramnath Agrawal Charitable Trust, it is affiliated to Savitribai Phule Pune University. The Institute runs 9 under graduate, 8 post-graduate & 6 Ph.D. programs which are affiliated to the university. The Institution has been awarded ISO 9001-2008 certification by BSI, India and granted autonomous status since academic year 2008-09. The institute has marched towards the pinnacle of glory through its remarkable achievements and laurels in the field of engineering education.

The department of **Electronics & Telecommunication Engineering** which runs a UG and PG program caters to the ever increasing needs of technical brilliance in all allied areas of Electronics and Telecommunication engineering such as microelectronics, telecommunication, signal processing, embedded systems and power electronics.

## Resource Person

### Mr. Sachin Shukla

#### SGM Technologies Pune

SGM Technologies is an industrial project implementation organization. It provides design and implementation of Electronic Systems and associated software, CAD tools and IoT related project development and implementation.

SGM Technologies also specializes in tailor-made courses for students from different engineering departments to prepare them for IoT main stream.

## About STTP:

Internet of Things offers advanced connectivity of devices, systems, and services that goes beyond machine-to-machine communications and covers a variety of protocols, domains, and applications. This STTP covers the current Industry Trends in IoT which encompass a wide range of skills that are integral and necessary part of everyday business, daylife or work environment.

The hands on sessions and lectures are designed with interactive training and workshops which equip its participants with better practical understanding to develop an expertise.

### Day 1

- Why IoT Professionals should study smart cities
  - IT to IoT
  - Fractal Cities
  - Simulation on Fractals
- Introduction to IoT
  - IoT Architecture
  - ITU-T reference model for IoT
  - IoT Protocols
  - Difference between M2M and IoT

### Day 2

- Wireless Sensor Networking & IoT
- Hands on Wireless Sensor Network
- Introduction to Cloud, fog and mist Computing for IoT
- Hands on Cloud, fog and mist Computing

### Day 3

- SDN, NFV and IoT
- Hands on SDN
- Introduction to Python and hands on

### Day 4

- Basics of Python
- Introduction to Raspberry – Pi
- IoT Protocols with Raspberry – Pi
- Basic Raspberry—Pi IoT Programs

### Day 5

- Contiki OS for IoT and Hands on
- Introduction to IoT Analytics
- Internet of Things and Security
- Introduction to IoT Forensics

## Important Dates

- Duration of Program: 18<sup>th</sup> –22<sup>nd</sup> September 2017
- Last Date to receive completed Registration form along with Fees: 16<sup>th</sup> September 2017

## Target Participants

Research scholars, UG & PG students and Faculty in E&TC, Electronics, Instrumentation, Computer, IT Engineering.

## Registration Fees : Rs. 3500/- (Excluding GST)

## Payment Details:

Registration form duly filled along with cash or DD drawn in favour of “**Vishwakarma Institute of Technology**” payable at Pune, should reach the Department of Electronics & Telecommunication Engineering before 16<sup>th</sup> September 2017. Please label the envelope with ‘STTP - IoT 2017’. Also mail a soft copy of the registration form and scanned copy of DD to anuprita.mande@vit.edu or kalpesh.joshi@vit.edu.

(Registration is strictly on First come First allotted basis).

## For Registration Contact:

**Prof. A. U. Mande**

**Contact No. : 9764009173**  
**anuprita.mande@vit.edu**

**Prof. K. V. Joshi**

**Contact No. : 9404972791**  
**Kalpesh.joshi@vit.edu**