

Government College of Engineering, Karad
(An autonomous Institute of Government of Maharashtra)

One Week TEQIP STTP

on

**Internet of Things & Mechatronics: Hands-on
Training on Raspberry-PI
25th – 30th June, 2018**

Sponsored by TEQIP Phase III

REGISTRATION FORM

Name: _____

Designation: _____

Institute/Organization: _____

Address for communication: _____

Mobile/Tel: _____

E-mail: _____

Educational Qualification: _____

Experience: _____

Registration Fee: Rs. _____

Payment DU No.: _____

Signature of Applicant

Signature of Head of the Institute (with seal and date)

Patrons

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(Chief Coordinator, SPFU) Director, DTE,
Maharashtra State, Mumbai

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Regional Office, Pune

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Prof. V.H. Karande,

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Government College of Engineering,
Karad

(An Autonomous Institute of Govt. of Maharashtra)



Short Term Training Program (STTP)

on

**“Internet of Things & Mechatronics: Hands-on
Training on Raspberry-PI”**

under
Technical Education Quality Improvement Programme
(TEQIP Phase III)

25th – 30th June, 2018

Organized by

Mechanical Engineering Department

Government College of Engineering,

Karad – 415124 (M.S.) INDIA

Website: www.gcekarad.ac.in

&

Department of Mechanical Engineering

Rajkiya Engineering College

Aikbalpur, Sikrapura, Deogaon, Azamgarh

(UP) 276201 India

ABOUT INSTITUTE

Govt. College of Engineering Karad is a premier institute in Western Maharashtra established in 1960 due to the efforts of Late Shri. Yashwantrao Chavan. The College is affiliated to Shivaji University, Kolhapur and is acting as a vital education center for many years. Recently the institute also got autonomous status. The institute offers 5 UG programs in Civil, Mechanical, Electrical, Information Technology and Electronics & Telecommunication Engineering and also 6 PG programs in Civil (Construction Management & Structural Engg.), Mechanical (Heat Engg. & Production Engg.), Electrical Engineering (Power Systems) and Master of Computer Applications (MCA).

Amongst the eleven institutes from Maharashtra state selected for participation in the third phase of Technical Education Quality Improvement Program (TEQIP-III) – an ambitious project of Government of India. Govt. College of Engineering, Karad is one of them. The institute is spread over 40 acres of serene and green campus and is a predominantly a residential campus. Karad city is situated on the confluence of rivers Krishna and Koyna and is well connected

ABOUT STTP PROGRAM

The internet of Things (IoT) is expanding at rapid rate and it is becoming increasingly important for academicians, professionals and students to understand what it is and how it is? Proposed STTP is kind of introductory as well as it gives a flavor of advances and its current applications.

Course is dedicated understanding an IoT through experiments and its objectives are,

- Introduction of IoT
- IoT Architectures & Protocol
- Raspberry Pi Interface from scratch
- Hands-on sessions on interfacing sensors and actuators
- Building applications using Raspberry Pi Board and sensor actuator interface

COURSE INSTRUCTOR

Sessions of the training program will be handled by well-known academicians from reputed engineering institutes and industries. Resource Persons such as

- **Prof. Sudarshan Deshmukh, NUS Singapur**
- **Dr. Faruk S. Kazi, VJTI, Mumbai**
- **Mr. Ashok Kumar, REC, Azamgad**

ELIGIBILITY

Faculty members and research scholars from AICTE approved Engineering and polytechnic Institutes and Industrial persons are eligible to participate. Participants are required to register in advance using the enclosed form.

COURSE CONTENTS

IoT Mechatronics STTP program will contain following sessions along with Hands-on Sessions

- What is IOT?
- Build your computer using Raspberry Pi
- Sense Temperature and Humidity
- Establish Remote Desktop Connection
- Raspbian OS
- Python Programming
- Application Programming Interface
- Building IOT Weather Station

Hands-on session will include

- Setting up Raspberry Pi
- Flashing the loading the SD card with the OS
- Booting the OS
- Enabling GPIO pins
- LED interfacing using the GPIO
- DHT Interfacing
- Operating Stepper Motor through IoT
- Introduction to interfacing to the Raspberry Pi Buses
- Linux Distributions for the Rpi, Connecting to a Network, Communicating with the RPi,
- Controlling the Raspberry Pi, Configuring the Raspberry Pi

REGISTRATION

The Participants who will receive confirmation mail will have to send the filled and duly signed registration form along with the copy of registration fees payment proof by email

REGISTRATION FEES

Student Participant: Rs. 1000/- each

Faculty Participant: Rs. 2000/- each

Industry Participant: Rs. 4000/-each

The registration fees shall be paid on-line after receipt of acceptance from us. Traveling, Lodging, boarding and other expenses will have to be borne by the participant. Accommodation will have to be managed by the participants only. However, the guidance will be provided for accommodation.

The link for online payment is:

<https://www.onlinesbi.com/sbicollect/icollecthome.htm>

Note: For any queries regarding payment, please contact the coordinators.

1. Registration fee is inclusive of working lunch and program kit

2. Accommodation on first come first serve basis

DATE AND VENUE

The STTP program will be held during 25th – 30th June 2018 at Mechanical Engg Department, Govt. College of Engg., Karad

- **Last Date of Registration :20th June 2018**
- **Notification of acceptance by e-mail: 21th June 2018**
- **Scanned copy of Completed Registration form should be send by email to course Co-coordinators.**