

## REGISTRATION FORM

### FOUR WEEK STC ON IoT WITH MACHINE LEARNING & AI

*Organized by*

**NITK-STEP & DEPARTMENT OF ELECTRICAL  
& ELECTRONICS ENGINEERING NATIONAL  
INSTITUTE OF TECHNOLOGY KARNATAKA,  
SURATHKAL**

**(JAN 7 TO JAN 31, 2020)**

Name of participant: \_\_\_\_\_

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

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

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

\_\_\_\_\_

\_\_\_\_\_

Mobile No. \_\_\_\_\_

Email: \_\_\_\_\_

Accommodation Required: (Yes / No)

I agree to abide by the rules and the regulations  
governing the Workshop.

Place:

Date:

*Signature of the participant*

### Program Coordinators

**Coordinator: Dr. Nagendruppa H.**  
**Co-Coordinators: Dr. B. Venkatesaperumal,**  
**Dr. Y. Suresh, and**  
**Dr. C.M.C.Krishnan**

**Dept. of EE, NITK Surathkal.**

### Address For Correspondence

*Professor In-Charge*  
*NITK-STEP, NITK Surathkal*  
*P.O. Srinivasnagar, Mangalore -575025*  
*E-mail: [step@nitk.edu.in](mailto:step@nitk.edu.in)*  
**Ph: 0824-2950602/ 97432 02338**

**Venue: NITK STEP, NITK Surathkal**

### Payment Details

DD No: \_\_\_\_\_

Date: \_\_\_\_\_ Rs: \_\_\_\_\_

DD should be drawn in favour of:  
“NITK STEP TRAINING PROGRAMME FUND”  
Payable at Canara bank, NITK Campus, Surathkal  
OR  
Online Payment

**NITK STEP TRAINING PROGRAMME FUND**  
**A/C No: 8517101003441**  
**IFSC CODE: CNRB0008517.**  
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Transaction Reference No.: \_\_\_\_\_

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Date:

*Signature of the participant*

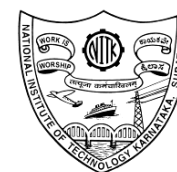
*A Self Financed*  
*Four Week Short Term Course*  
*On*  
*IoT with Machine Learning & AI*  
**(JAN 7 TO JAN 31, 2020)**

*Organized by*

**NITK-STEP &  
Department of Electrical &  
Electronics Engineering**  
National Institute of Technology  
Karnataka, Surathkal  
Mangalore – 575 025

*In Association with*

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Chennai 600-017



**Dr. Shubhanga K. N.**  
*Head, Dept. of E&E*

**&**

**Dr. Venkatesaperumal**  
*Professor In-Charge*

**Science & Technology Entrepreneurs' Park**  
**NITK Surathkal**  
**Srinivasnagar Post,**  
**Mangalore – 575 025**  
**<http://step.nitk.ac.in>**

### **About NITK**

NITK Surathkal is a premier institution engaged in imparting quality technological education and a broad range of research, development and consultancy activities. NITK has carved a niche for itself among the best technical institutes in India and is consistently ranked among the top technological institutes. NITK is located in Surathkal on the scenic shores of the Arabian Sea, about 20KM north of the city of Mangalore and is well connected by Air, Rail and Road. The nearest domestic/international airport is situated at Bajpe (about 10KM from Mangalore) and the nearest railway station is Surathkal (3KM). The NITK Campus is situated right on National Highway NH66 with very good bus connectivity from Mangalore, Udupi etc.

### **Startup and Incubation Activities at NITK**

NITK's Science & Technology Entrepreneurship Park (NITK-STEP) was established in 1994, for supporting and promoting student start-up activities. It provides financial support for students' startups, with several success stories in the areas of imaging technology, Network Cloud convergence, Multimedia, low cost/long lasting alternatives to conventional lead batteries, remote control power tillers, healthcare products etc. NITK Startup Cell and E-Cell also support entrepreneurial activities of students and faculty.

### **DEPARTMENT OF EEE**

The Department of Electrical Engineering was established right from the inception of the institute in 1960. The post-graduate program in Power and Energy Systems was started in the year 1992. Formal research activities leading to a doctoral degree (PhD) were introduced in the year 2003. The department has always exerted the best of its efforts

to meet the objective of achieving technical excellence. The department is actively involved in research, development, testing and consultancy activities. There are several full-time PhD scholars pursuing research in the department, in addition to a large number of part-time registrants. Department has been extending need-based services of testing and consultancy to the industrial sector. Its R & D activities have gained momentum with funding/MOU from governmental agencies/industries.

### **About the Course**

The Internet of things is a technological revolution that represents the future of computing, communications, and its development depends on dynamic technical innovation in many important fields. The Internet of Things (IoT) is "group of infrastructures interconnecting connected objects and allowing their management, data mining and the access to the data they generate". The evaluation of the IoT in the electrical power industry transformed the way things performed in usual manner. Some of the recent developments like: smart metering where IoT helps to improve the forecasting and reduces energy theft, loss. In building automation, it saves power consumption by automatically turning off the lights when it is not occupied. The IoT plays significant role in smart grid technology as it makes better use of energy supply by optimizing electricity generation and distribution depending upon the load demand. With rapid advancements in IoT technology a new wave of productivity growth is to be expected with overall improvement in quality of life.

### **Scope of the Course**

The following topics will be covered:

- Basics of IoT and Raspberry Pi
- PYTHON Programming
- Linux Fundamentals
- Accessing Internet
- Using SMTP Mail Server

- Camera Interfacing
- Creating a project on security
- HTML Programming
- Electrical Applications
- Social Networks in IOT Applications.

### **Registration Fee:**

The registration fee for

**Faculty/Industry persons - Rs.15000/-**  
**Students (UG/PG/PhD) - Rs.8000/-**

The registration fee includes registration kit, lunch and refreshments for all the days. Limited accommodation for the participants will be provided in the institute guest house/hostels on request (chargeable basis). Normally it will be a twin shared accommodation. With a view to give individual attention to the participants and to make the program more effective, the number of participants is restricted to about 50.

### **Please Note:**

Completed registration forms accompanied by registration fee (in the form of DD or Online payment) should reach not later than **5th Jan 2020**.

The selected candidates will be intimated by 5th Jan, 2020 through e-mail / phone.

### **Account Detail:**

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