

WHO CAN ATTEND

The program is multidisciplinary. Full time faculties from AICTE approved - Government / Government aided / Un-aided Engineering colleges or Polytechnics or Autonomous technical university departments can attend.

IMPORTANT DATES

Last Date of Registration : 04.12.2021
Intimation of Selection : 07.12.2021
Commencement of Program : 13.12.2021

REGISTRATION

No fee will be charged to the participants. Confirmation of eligible candidates will be on FIRST-COME-FIRST-SERVE basis and preference will be given to life time ISTE members. Interested candidates may register this program using registration link given below.

REGISTRATION LINK

<https://forms.gle/s4ow3TWgmyEXAeXd9>

Number of participants is limited to 100. The selected participants will be intimated through e-mail after final selection. In case of any query contact on gpkpelectronics@gmail.com.

ABOUT TRAINING

Mode of Delivery: Live web sessions with hands on practice throughonline mode

Requirements to get E-Certificate:-

- 1) At least 80% attendance is mandatory
- 2) Minimum 60% should be scored in the online test to be conducted at the end of the program
- 3) Laptop/Desktop with good internet facility, and components such as- NodeMCU ESP8266, Aurdino board etc is mandatory.

Components list will be communicated later.

CHIEF PATRON

Prof. A. D. Sahasrabudhe, Chairman, AICTE
Dr. Abhay E. Wagh, Director, DTE (MS)
Dr. P. K. Desai, President, ISTE
Dr. V. M. Mohitkar, Director, MSBTE, (MS)

PATRON

Col. B. Venkat, Director FDC, AICTE
Prof. V. D. Vaidya, Executive Secretary, ISTE
Dr. D. V. Jadhav, Joint Director, R.O. Pune

CONVENER

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I/C Principal,
Government Polytechnic, Kolhapur

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ORGANIZING COMMITTEE

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Shri. S. B. Mote, LETX
Department of Electronics Engineering
Government Polytechnic, Kolhapur



AICTE - ISTE Sponsored Induction/Refresher Programme (Online mode)

On
“IoT and Its Applications”
13th to 18th December, 2021



Organized By

Electronics Engineering Department
Government Polytechnic,
Kolhapur
University Road, Vidyanagar,
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Maharashtra State, INDIA
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GENERAL INFORMATION

Kolhapur is an important city in Maharashtra and is known as Dakshin Kashi from ancient time. It is a famous religious place due to Mahalakshmi & Jotiba temples. Kolhapur is a famous center of Art, Education, Industry and Sports, particularly wrestling. Kolhapur city and its surrounding regions prominently come under the sugarcane belt where the sugarcane is main cash crop.

INSTITUTE AT A GLANCE

Government Polytechnic, Kolhapur is established in 1961. Institute has independent campus of about 12 hectares covering academic building and hostels.

Institute has the privilege of being the First Academically Autonomous Government Polytechnic in the state. At present, the Institute offers Diploma programmes in Civil, Mechanical, Electrical, Electronics and Telecommunication, Information Technology & Metallurgy,

Being rich with faculty of high qualifications, modernized laboratories and infrastructure, the Institute has progressed serving the industry and society.



ISTE AT A GLANCE

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System.

ABOUT THE DEPARTMENT

Industrial Electronics Engineering Department was established with intake capacity of 60 students in 1988. In 2009 Electronics & Telecommunication commenced with intake capacity of 120 students. The Department is equipped with the state-of-the-art laboratories and also has excellent computational facility. The department conducts technical, co-curricular and extracurricular activities regularly for further understanding and skill enhancement in students.

ABOUT THE PROGRAMME

The Internet of Things is a new Internet revolution. A world where the real, digital, and virtual collide to produce smart settings that improve energy, transportation, cities, and a variety of other sectors. IoT refers to a gadget that has evolved into a smart device. There are numerous Android and server based applications available nowadays. This program will help the participants to learn the fundamentals of IoT and with hands-on to develop small applications.

EXPECTED OUTCOMES

- Learn key IoT concepts on sensing devices, actuation, processing and communication
- Learn basics of Python and Embedded C
- Implement IoT based applications using NodeMCU/Arduino/Raspberry pi
- Communicate with cloud using web services
- Relate drone technology with IoT
- Understand cyber security analytics in IoT
- Understand Cloud computing

HIGHLIGHTS OF PROGRAMME

- Participants will be introduced to exciting world of IoT.
- Participants will be trained on Embedded C, implementation of analog and digital peripherals.
- The training includes hands-on practice resulting in exploration of concepts.
- What does "Internet of Things" represents and How does it connect to cloud computing?
- How can you save your sensor data in the cloud using open platforms?
- The fundamentals of using Arduino, Raspberry Pi, and NodeMCU environments to build your own low-cost embedded projects
- How to use your Android phone to control your Arduino and Raspberry Pi?
- How to use MIT App Inventor to make your own Android app?
- How to communicate with the Cloud and send data to the Internet?
- How to use Twitter to update sensor readings (Social Networking Sites)?
- How to control any device from any location on the planet?
- How to use MQTT to connect to a cloud-ready IoT server?
- Python, Embedded C, Node.js, and other programming languages will be covered.

RESOURCE PERSONS

Mr. Krunal Kalbende

Dr. Shrikant Annavarapu

Ms. Vaishnavi Shivankar

Experts from Industry & IIT Alumni