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## Coordinators

**Dr. S. Revathi**, Professor

**Dr. N. Sabiyath Fatima**, Associate Professor

**Dr. V. Muthu Priya**, Asst. Professor (Sl.Gr.)

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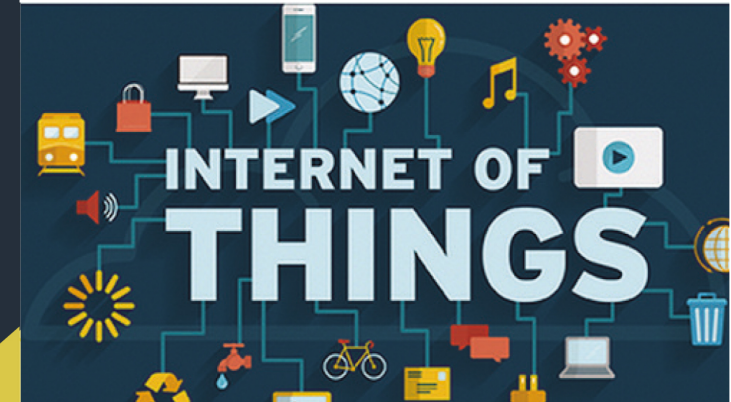
## Important Date

Last Date for Registration : **22-08-2020**

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One week short term Training Programme (STTP) - Online  
on  
**INTERNET OF THINGS**  
(Everything) - Future



Organised  
By

**Department of Computer Science and Engineering**  
**School of Computer, Information & Mathematical Sciences**

Sponsored by



**Slot I - 24-08-2020 – 29-08-2020**

**Slot II - 07-09-2020 – 12-09-2020**

Address for Communication

**Coordinators**

**B.S.Abdur Rahman Crescent Institute of Science And Technology,**  
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## Course Contents / Highlights

- Introduction to IoT
- The Basics of Sensors, Actuators and wireless devices
- IoT architecture and standards
- IoT data link, network, transport and session layer protocol
- Simulator
- Road ahead on the connected devices with IoE
- Industry 4.0 – Trends and Challenges
- Industrial 4.0 with additive manufacturing
- Software Defined Networking (SDN) based IoT
- MQTT protocol overview
- Block chain Overview and its adoption in IoT
- 3D printing & IoT

## Programme Objectives

- To impart good understanding of core concepts, background technologies, and sub-domains of IoT.
- Determine applications of IoT in various fields
- To gain Knowledge and skills of sensors, microcontrollers, and communication interfaces to design and build IoT devices
- To know the different layers data link, network layer, session layer and transport layer protocols
- To get the hands on experience using IoT simulator

## Programme Outcomes

Upon completion of this STTP, the participants will

- Learn the basic concepts, architecture and standards of IoT
- Gain knowledge on sensors and actuators for IoT framework
- Experience the different layers data link, network layer, session layer and transport layer protocols
- Road ahead on the connected devices with Internet of Everything (IoE)
- Explore the Industry 4.0 and its challenges
- MQTT protocols and Block chain technology and its adoption in IoT technology
- Software Defined Networking based on IoT

## About the Institution

B. S. Abdur Rahman Crescent Institute of Science & Technology is a renowned quality leadership institution located at the greenest spot in Chennai near Tambaram. Through its long history of 36 years of excellence, the institution has offered access to a wide range of academic opportunities. With 56 programs, grouped under 12 different schools, 33 undergraduate programs, 23 post graduate programs and PhD (in all departments), the institution is a rising stalwart in higher education with promising quality, security and placement. We welcome students from all countries and our educational programs are designed to equip the learners with virtual knowledge that helps them to achieve what they want to be and go where they want to go in the ladder of success.

## About the Department

The Department of Computer Science & Engineering was started in 1990. The department offers two undergraduate programs namely B.Tech. Computer Science & Engineering and B.Tech. Computer Science & Engineering with specialization in Big Data and IoT in collaboration with IBM. The department also offers post-graduate degree programme and Doctoral Degree Program in the field of Computer Science and Engineering. The undergraduate and postgraduate programs of Department of Computer Science & Engineering are approved by National Board of Accreditation, New Delhi.

## About the Short Term Training Programme

The Short Term Training Programme (STTP) intends to conduct faculty trainings through financial assistance from AICTE to enable faculty members in the field of technical education to introspect and learn techniques that can help to prepare the students for active and successful participants in knowledge.



## Resource Persons

Experienced faculty from renowned institutions, experts from industries will deliver lectures and conduct hands-on experience through simulator.

## Target Audience

This course is open to Faculty members and Research scholars of AICTE approved Engineering colleges and Polytechnic colleges.

## Registration Details

- The registration is free for faculty members from AICTE approved institutions. The number of participants is limited to 100 and the selection is based on first come - first served basis.
- Online google meet link will be provided through whatsapp/mail
- Certificates will be issued to all the participants who are attending all the sessions and completing the online quiz

**NO REGISTRATION FEE**

### For Queries contact:

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### Registration Link

<https://bit.ly/31JlkzC>

