About SRM Institute of Science and Technology

SRM Institute of Science and Technology is one of the top ranking Institution in India with over 38,000 students and 2,600 faculty members, offering a wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Medicine and Health Sciences and Science and Humanities. It has established itself as a premier centre for teaching, research and industrial consultancy in the country. It has world class infrastructure including smart classrooms, Hi-Tech labs, advanced instruments and equipments, research laboratories, modern library and Wi-Fi facility. Ministry of HRD placed SRM Institute of Science and Technology in category A. The times of India has ranked SRM Institute of Science and Technology as No. 1 in top 75 private engineering Institutes. During January 2011, the Institution conducted the 98th Indian Science Congress where in 6 Nobel laureates interacted with our Students and Faculty.

About the Department of Computer Science and Engineering (CSE)

The future of Computing rests here. The department's mission is to advance, evolve and enhance Computer Science and Engineering fundamentals to build the intellectual capital of the society. The CSE Department endeavour's to be an important regional, national, and international resource center for the development of Computing and its applications. The department is witnessing a period of exciting growth and opportunity propelled by the growth of technology and its recognition through excellence. The department offers specialization courses in B.Tech and M.Tech. The B.Tech-CSE of Kattankulathur Campus is accredited by Institute of Engineering and Technology (IET), UK. The department got a grant from Government Funding agencies like DRDO, DST, NIXI.

The Department effectively prepares students to pursue leadership, technical, and management positions in a variety of industries.

About Protogen

Protogen is the academic wing of FluxGen Engineering Technologies Pvt.Ltd. FluxGen is a Tech company started by alumni of IISc, IIT and IIM. They are in the business of IoT for last five years. They have done the pioneering IoT deployment for renewable energy, water and other resources management for which they have been awarded the IoT startup of the year award (2016) and Engineering Impact Award at Austin Texas. They are featured in Forbes , Your story , Tech-in - Asia, Objet connecte , etc and published their work in international publications. FluxGen is also part of Cisco LaunchPad and National Instrument 's PlanetNI program. They have also engaged in sharing their knowledge in IoT with Google Product Managers, Accenture Strategy team, TCS Agriculture team and also with academic institutions like Karlsruhe Institute of Technology (Germany), VU University Amsterdam, Indian Institute of Science , National Institute of Technology and other institutions.

Brief Overview of the Sessions and session Schedule

The Internet of Things, or IoT, is a field primed to take off in the next few years. While the IoT as of now, currently consisting of about five billion devices worldwide, the field as of now is simply learning to walk before taking off and running. This course will be offered by Fluxgen Engineering Technology. It is a three day course consists of twelve sessions where , the first three sessions will be on concepts and the other nine sessions will be **hands-on** training. Each session is designed to meet the industry needs and will be handled by the trained professional experts from Fluxgen.

DAY 1:

- **Introduction**
- **Case Studies - IoT Systems**
- **Deployed by FluxGen**
- **Sensors and Actuators**
- **Interfacing Hardware**
- **Basic Embedded Programming**

DAY 2:

- **Industry 4.0**
- **Case Studies - Industrial Installations**
- **Communication Protocols**
- **Wireless communication**
- **Introduction to Cloud Platforms**

DAY 3:

- **Cloud Platform Integration with IoT Hardware**
- **Embedded Programming to Interface with Cloud**
- **Mobile Application Development - Basic Hardware and Cloud**
- **Demo of a complete functional IoT System**

Overall Benefits / Takeaways

Knowledge and understanding of fundamental IOT paradigms, design, construction and programming, both with respect to IoT software and hardware.

- **Hands on experience on IOT and an opportunity to develop live projects.**
- **Industry ready in IoT after the course.**
- **Kick start to do an IoT Product Prototype.**

Makeath⚲n®

WIN CASH AWARDS

Open challenge on IoT
(Problem statement will be given at the end of the workshop)

REGISTRATION DETAILS

Non-IET Members: Rs. 1500/- Per head

IET Members: Rs. 750/-   Per head

Participants must pay the registration fee to the following account through NEFT/DD before filling the online registration form using the link:
https://events.webarchsrm.com/

Payment Details

Account No: 459777790

Bank name & Account Type : Indian Bank & Current

Account Name: Computer Science Eng&Asso

Branch: SRM university

IFSC code: IDIB000S181

Include payment remarks: CCIOTA18

NEFT/DD in favour of Computer Science Eng & Asso payable at Chennai

Important Dates

Last Date for Registration : 25th Aug 2018.

Date of Event : 30th August to 1st September 2018

Instructions for the participants:

- Refreshments and working lunch will be provided to the participants.
- Demo kits will be provided only for usage during workshop sessions.
- Three members team will be formed during the first session.
- One Laptop should be there with each team with following Softwares, drivers, module packages installed:
    - Arduino Latest Version
    - CH340G Driver
    - ESP8266 Module Package
- One latest Android Smartphone, with each team with following Applications Installed:
    - AI Companion
    - QR Code Scanner
    - IFTTT
- USB data Cable (Micro USB B Type) can be brought

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Mr. Ravi Pachamootoo, Chairman
Dr. P. Sathyanarayanan, President
Dr. R. Shivakumar, Vice President
Dr. Sandeep Sancheti, Vice Chancellor

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Dr. B. Amutha, Prof., & Head, Dept. of CSE
Dr. S.S. Sridhar, Prof., Dept of CSE

CONVENOR(S)

Dr. M. Pushpalatha, Professor/CSE
Dr. E. Poovammal, Professor/CSE

CO-ORDINATOR(S)

Dr. Revathi Venkataraman, Professor/CSE
Dr. R. Annie Uthra, Associate Professor/CSE

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Ms. K. Sornalakshmi, Research Associate/CSE

ADDRESS FOR COMMUNICATION

The Convenor (CCIOTA -2018)
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SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

CERTIFICATE COURSE ON INTERNET OF THINGS & APPLICATIONS

CCIOTA-2018

30-AUG-2018 to 01-SEP-2018

Organised by

**DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
FACULTY OF ENGINEERING & TECHNOLOGY**

Sponsored by

IET The Institution of Engineering and Technology

In association with

FluxGen Sustainable Technologies

Venue

**MINI HALL – II, Dr. T.P. GANESAN AUDITORIUM
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

SRM Nagar, Kattankulathur - 603 203
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