



## Hands-on Tutorials/Workshop on IoT



**Date:** 5-6 October 2018

**Time:** 09:00 AM to 05:00 PM

**Location:**

**SRM Institute of Science & Technology**  
Potheri, Kattankulathur, Chennai.

**Registration Link:**

<https://in.explara.com/e/ieee-iot-workshop>

IEEE standards association in technical collaboration with IEEE communications society Madras chapter and SRM Institute of Science & Technology hosts hands-on tutorials/workshop on IoT and Drones. This workshop provides an opportunity for participants to explore the possibilities and the capabilities of the IoT devices and applications. As the outcome of the workshop participants will get to fly their drone applications.

**Hands-on and IoT product Demo**

- One day hands-on drone applications.
- Demonstration of IoT devices in healthcare, industry applications.

**Exposure to IoT ecosystem**

- Fundamentals of IoT, compute, sense, actuate and networking protocols.
- IoT embedded perspective.
- Standardization and conformity.
- Learning platforms.
- Start-ups/ Entrepreneurship



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 3 of IAC Act, 1956)

**IEEE ComSoc**<sup>TM</sup>  
IEEE Communications Society

Madras Chapter



**IEEE**



## IoT Tutorial/Workshop Schedule

5-6 October 2018

SRM Institute of Science & Technology

Kattankulathur, Chennai, Tamil Nadu

Day	Topic	Speaker	Time
5 <sup>th</sup> October 2018	Registration 9:00 AM – 9:30 AM		
	Inauguration 9:30 AM – 10:00 AM		
	<b>Drone Technologies</b> <ul style="list-style-type: none"> <li>● Definition and Uses of Drones</li> <li>● Aerodynamics: In depth explanation of forces and axes involved in flying of Pluto</li> <li>● Simulation to understand Forces better</li> <li>● Equilibrium: Understanding stable and unstable systems</li> <li>● Sensors: In-depth about accelerometer, Gyro Sensor, Barometer and magnetometer which are present in Pluto</li> <li>● Motors: How motors work and what is Lorentz's law</li> <li>● Propellers: What type of propeller we are using and it affects flying</li> </ul>		10:00 AM – 12:30 PM
	Lunch Break 12:30 PM – 1:30 PM		
	<ul style="list-style-type: none"> <li>● Programming the Pluto</li> <li>● Introduction to Experience IDE (IDE for programming the Pluto)</li> <li>● Understanding Pluto API</li> <li>● Using LEDs for debugging</li> <li>● Preparing drone for crash scenarios</li> <li>● Chuck to Arm functionality</li> <li>● Navigating using Code - automate Pluto movements</li> <li>● Accessing sensors for data and processing it</li> </ul>		1:30 PM – 5:00 PM

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Day	Topic	Speaker	Time
6 October 2018	Challenges and Opportunities in Start-ups	Faheem Sait (Elgo Learnings)	9:00 AM – 10:00 AM
	Tea/Coffee Break 10:00 AM – 10:30 AM		
	IEEE Standards University and IoT Standards	Munir Mohammed (IEEE)	10:30 AM – 11:30 AM
	Introduction to IoT, History, Protocols and practical Implementations	Dwarkanath (CDAC)	11:30 AM – 12:30 PM
	Lunch Break 12:30 PM – 1:30 PM		
	IoT: Embedded perspective	Gautham Sriprakash (IEEE)	1:30 PM – 2:30 PM
	Skills of today and jobs of tomorrow	Malay Harsha (IEEE)	2:30 PM – 3:30 PM
	IoT Applications and Devices – Demo	Venkatesh (Redpine Signals)	3:30 PM – 4:30 PM
	Vote of Thanks	(SRMIST)	4:30 PM – 4:40 PM