

## WAVES'18 - IOT AND HOME AUTOMATION WORKSHOP

### Day 1 : 8-march-2018

<b>Session 1</b> <b>( 9 AM – 12.30 PM)</b>	<ul style="list-style-type: none"><li>• Introduction to IoT<ul style="list-style-type: none"><li>◦ Scope and Application</li></ul></li><li>• Introduction to NodeMcu<ul style="list-style-type: none"><li>◦ Pin description</li><li>◦ Hardware features</li></ul></li><li>• Introduction to Arduino Software and TunIoT</li><li>• Basic programming</li><li>Break ( 11 AM – 11.15 AM)</li><li>• Basic Hardware Interfacing</li></ul>
<b>Session 2</b> <b>( 1.30 PM – 4.00 PM)</b>	<ul style="list-style-type: none"><li>• Basics of HTTP protocol</li><li>• Sensor Interfacing</li><li>• Introduction to Cloud Platforms</li><li>• Sending sensor data to cloud<ul style="list-style-type: none"><li>◦ Dashboard display</li><li>◦ Creating Trigger</li></ul></li><li>• Creating a simple Web Server using NodeMCU</li></ul>

### Day 2 : 9-march-2018

<b>Session 3</b> <b>( 9 AM – 12.30 PM)</b>	<ul style="list-style-type: none"><li>• Introduction to Automation<ul style="list-style-type: none"><li>◦ Home Automation</li></ul></li><li>• Basics of App development using App Inventor (Theory)</li><li>• Controlling Relay using App</li><li>Break ( 11 AM – 11.15 AM)</li><li>• Basics of AC Wiring</li></ul>
<b>Session 4</b> <b>( 1.30 PM – 3.00 PM)</b>	<b>Making and Testing of Smart Socket (Modular Home Automation Product)</b>
<b>Session 5</b> <b>( 3.00 PM – 4.00 PM)</b>	<b>Make-a-thon</b> A hands on Event exclusively for the participants of the workshop. The workshop fee of the winning team will be refunded.

Lunch Break:12.30 PM – 1.30PM