

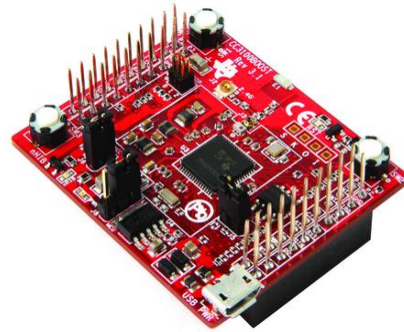
INTERNET OF THINGS using MSP430F5529 ULP MCU

Overview:

This workshop offers a neat introduction on the “Internet of Things” and is based on the advanced development tools from Texas Instruments. The **MSP430 ultra low power LaunchPad** and the **CC3100 boosterPack** offer a complete wifi IOT solution while the integration of Energia with the IOT platform simplifies the IOT application development. So, what will you **INNOVATE?**



MSP430F5529 LaunchPad



CC3100 WiFi BoosterPack

Tools Used:

- *MSP430F5529 LaunchPad*
- *CC3100 BoosterPack*
- *Energia and Code Composer Studio v6*

Pre-requisite:

- *Basic understanding in programming, digital electronics*

Day	9:30-11:00	11:15-12:45	13:45-15:15	15:30-16:45
1	MSP430F5529 <ul style="list-style-type: none"> ▪ Introduction ▪ Architecture ▪ Low Power Features 	Energia Framework <ul style="list-style-type: none"> ▪ Overview of Energia Lab: Led, switch, UART, ADC, PWM Labs using Energia	Internet of Things <ul style="list-style-type: none"> ▪ What is IOT? ▪ TCP/IP, internet terminologies CC3100 Booster-Pack	Overview of Energia Wi-Fi Libraries Lab: Wi-Fi Connection, acquiring IP, Gateway IP
2	Client Server Paradigm Lab: Client Server Communication between two LaunchPads	Control your LaunchPad using Wi-Fi Lab: IO manipulation on LaunchPad using Web browser	OverView of Temboo Cloud Services Lab: Using Nexmo text to speech API to generate call based Alert System	Email Application Lab: Send Email using your LaunchPad