



National Institute of Electronics and Information Technology Chandigarh

An Autonomous Scientific Society under the administrative control of
Ministry of Electronics & Information Technology (Meity)

Government of India
(ISO 9001:2008 Certified Institute)

C-134, Industrial Area, Phase VIII, Mohali. Punjab-160072

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nielit.gov.in/chandigarh



NIELITIndia



NIELITChd

One Week Workshop on Internet of Things & One Week Workshop on Advanced IoT with Big Data Analytics

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Speakers:

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Objective:

The objective of the course is to gain knowledge on importance of Internet of Things (IoT) in society, the current components of typical IoT devices and trends for the future. The course will focus on IoT design, design constraints, interfacing between the physical world and devices and further implementation and integration of IoT ecosystems with Analytics.

Highlights:

- Highly qualified and experienced trainers
- Focus on practical sessions
- Focus on IoT devices, design, interface and analytics.

Outcome:

The students will learn to design IoT components which would allow students to innovate new designs and products. IoT and BigData are the most innovative technology after the invention of Internet.

First Week: Internet of Things

- IoT – Introduction, applications, Market growth, Architecture, protocols
- Introduction to Arduino, Arduino IDE & Driver Installation
- Basics of Electronics, Hands on with breadboard, multimeter, resistance, transistor, soldering/desoldering, etc., C language
- Working with Digital Outputs- Interfacing LED s with Arduino
- Introduction to PWM and demonstrating LED Fading
- Working with Serial Communication, Analog inputs
- Interfacing ESP8266 with Arduino, Web services

Start Date:
18/12/2017

Second Week: Advanced IoT with Big Data Analytics

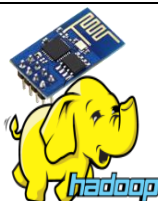
- Cloud Computing and Data Analysis Web services
- Create JSON Object, Establish Connection Using WiFi
- Sending JSON data to Rest API over HTTP
- Big Data Analytics using Hadoop
- Implementing IoT with Big Data Analysis



Target Audience:

Undergoing Graduates
Engineering (Computer Science / IT/Electronics) students.

Fee (per participant for two weeks) : Rs. 4000/- + 18% GST as applicable.
Group Discount as per NIELIT Chandigarh policy shall be applicable.



NIELIT Chandigarh

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