NIELIT Chandigarh

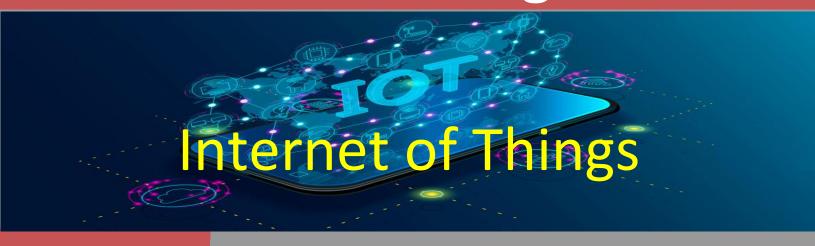## Internet of Things

About NIELIT

NIELIT isan autonomous Scientific Society under the administrative control of Ministry of Electronics & Information Technology (MeitY), Government of India. NIELIT Chandigarh was established in 1978 to provide professional services in the areas of Information, Electronics & Communication Technology (IECT). NIELIT Chandigarh is engaged in development of industry oriented quality education and training programmes in the state-of-the-art areas.

About Course

The explosive growth of the "Internet of Things" is changing our world and the rapid drop in price for typical IoT components is allowing people to innovate new designs and products. This course focuses on importance of IoT in society, the current components of typical IoT devices and trends for the future. IoT design considerations, constraints and interfacing between the physical world and your device will also be covered.

Course Objective

The learner will learn the key elements and get knowledge of Internet of things. The learner will also learn how to make design trade-offs between hardware and software. Further, the learner will learn to develop immutable and decentralized application.

Brief Contents

- IoT–Introduction, Applications, Communication, Protocols, Architecture.
- Basic Electronic circuits and Components
- Arduino IDE And Basics C Programming Structure
- Working with Digital Inputs/Outputs –interfacing LED, Button, Buzzer
- Working with Analog Input –Interfacing Potentiometer, LDR
- Introduction to PWM, LED fading using PWM
- Working with Serial Communication, LCD, Keypad.

Eligibility

Any under-graduate with knowledge of any one programming language

Duration & Fee

2 Weeks
Rs 1000/- Plus GST

For further details, Contact:

Facility at Chandigarh
IETE Building, Sector 30-B, Chandigarh 160030
Phone: 0172-2650121

Permanent Campus
BadaPhull, Birla Farms, Ropar-140001
Phone: 01881-257005,257006

Email: dir-chandigarh@nielit.gov.in

Visit: www.nielit.gov.in/chandigarh