

*AICTE - Training & Learning
(ATAL) Academy
Sponsored Program on
Internet of Things (IoT)
16th-20th December, 2019*



**Venue - NPTI , Alappuzha
Kerala**

Organized by

NATIONAL POWER TRAINING INSTITUTE

**A National Apex Body for Training in Power Sector
(An ISO 9001:2015 & 14001:2015 Organization)**

Ministry of Power, Government of India

Pallipuram, Cherthala Taluk

Alappuzha , Kerala

www.npti.gov.in

About NPTI:

National Power Training Institute (NPTI) an ISO 9001 & ISO 14001 organization under Ministry of Power, Govt. of India, is a National Apex body for Training and HRD in Power Sector with its Corporate Office at Faridabad. NPTI is the world's leading integrated power training institute and it is operating on an all India basis through its regionally located Institutes at Faridabad, Badarpur, Nangal, Bengaluru, Neyveli, Durgapur, Guwahati and Nagpur. NPTI is establishing two new institutes at Alappuzha (Kerala) and Shivpuri (MP) which would be operational shortly. NPTI has more than 50 years of professional expertise in the field of training and HRD in Power sector with industry specific interface.

Program Overview:

The Internet of Things (IoT) is expected to emerge as a huge business opportunity for the Indian IT industry in the years ahead. According to a Gartner Report, the global IoT industry would be worth USD 300 billion by 2020, with connected devices increasing to 2.7 billion by that year. India, it is projected, will have a 5-6 percent share of this industry. The expansion of IoT in the country is expected to be spurred by several developments:

- The proliferation of sensors, which will work with an ever growing number of intelligent systems and applications
- The Indian Government's plan of developing 100 smart cities in the country, for which Rs. 7,060 crore has been allocated in the current budget.
- The launch of the Digital India Program of the Government, which aims at 'transforming India into a digitally empowered society and knowledge economy.
- The Indian IT industry has an opportunity to provide software applications, services and analytics related to IoT over the next few years.

Target Audience: Faculty members and PhD research scholars of AICTE affiliated educational institutions are eligible to participate. There is no registration fees for the course and maximum 50 participants will be allowed to register. Participants will be provided only tea/ working lunch during the course. No TA/DA will be given to any participants and they have to make their own arrangements for stay.

All correspondence should be addressed to:

**Dr. S.Selvam , Director
National Power Training Institute
NPTI Complex, Block-14, Neyveli - 607 803, Tamilnadu
Tel/Fax: 04142-269427**

For further Information please contact

**Mr. S.SENTHIL KUMAR, Assistant Director
Email: ssenthil.npti@gov.in, senthilkumar.nptisr@gmail.com
Mobile: 9443088015**

**For more details about AICTE-ATAL Academy please visit
www.aicte-india.org/atal**

(National Power Training Institute - Alappuzha,Kerala)
Title of the Workshop: Internet of Things (IoT)
From 16/12/2019 To 20/12/2019

PRE-REQUISITES

- Sensors, System Integration
- Cloud and Network Security

Dates	10:00 AM to 11:30 AM	11:30 AM to 12.00 PM	12.00 PM to 1.30 PM	1.30 PM to 2:30 PM	2:30 PM to 4.00 PM	4:15 PM to 4:45 PM
16/12/2019	Registration and Inauguration	High Tea	Session 1 Introduction to Internet of Things	Lunch	Session 2 Basics of Computer Networks	Tea
17/12/2019	Session 3 Hardware & Software Components of IoT	Tea	Session 4 Design Principles, Protocols and Architecture of IOT	Lunch	Session 5 Lab/Hands on Exp.	Tea
18/12/2019	Session 6 Cloud Computing Architecture	Tea	Session 7 IoT Application Development	Lunch	Session 8 Lab/Hands on Exp.	Tea
19/12/2019	Session 9 Security Aspects & Protocols	Tea	Session 10 IoT Data Handelling	Lunch	Session 11 Lab/Hands on Exp.	Tea
20/12/2019	Session 12 IoT Data Analysis	Tea	Session 13 IoT Case Studies	Lunch	Session 14 Open Discussion	Valediction