

*AICTE - Training & Learning
(ATAL) Academy
Sponsored Program on
Artificial Intelligence (AI)
16th -20th September, 2019*



Venue - HLTC , Bangalore

Organized by

**NATIONAL POWER TRAINING INSTITUTE
HOT LINE TRAINING CENTRE**

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

Ministry of Power, Government of India

**26TH K.M.,Kanakapura Main Road,Kaggalipura Post,
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www.npti.gov.in, www.hltc.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: Artificial Intelligence also known as Machine Intelligence refers to intelligence displayed by machines, which is contradictory to intelligence displayed by humans known as natural intelligence. AI research which is a component of computer science has been defined as the study of any electronic device which assesses its environment and takes actions that maximize its chances of achieving its designated goals. Generally, the term "Artificial Intelligence" is used when a machine intimates "cognitive" functions that humans relate to other human minds, for eg. "learning" and "problem-solving".

The range of AI is often disputed as machines increasingly become capable because tasks which have been established to need "Intelligence" are often removed due to an effect which is known as "AI effect". For instance, optical character recognition is generally excluded in Artificial Intelligence as it has become an ordinary technology. There is a high career scope in Artificial Intelligence as it is an ever-changing technology. Nowadays, almost all industries are dependent on Artificial Intelligence, thus there is always a high demand for Software Analysis, Computer scientists, Research Scientists etc.

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:

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

(National Power Training Institute – Hot Line Training Centre, Bangalore)
Title of the Workshop: Artificial Intelligence
From 16/09/2019 To 20/09/2019

PRE-REQUISITES

- Basic Programming in Python
- Data Structures

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
16/09/2019	Registration and Inauguration	High Tea	Session 1 Introduction to Machine Learning - Supervised, Unsupervised, Reinforcement	Lunch	Session 2 Lab/Hands on Exp.	Tea
17/09/2019	Session 3 Supervised Learning Algorithms-Linear Regression, Logistic Regression	Tea	Session 4 Supervised Learning Algorithms- Support Vector Machines, K Nearest Neighbours	Lunch	Session 5 Lab/Hands on Exp.	Tea
18/09/2019	Session 6 Supervised Machine Learning Algorithms- Perceptron, MLP/Neural Networks	Tea	Session 7 Supervised Machine Learning Algorithms- Introduction to Deep Learning,, Convolutional Neural Networks	Lunch	Session 8 Lab/Hands on Exp.	Tea
19/09/2019	Session 9 Unsupervised Machine Learning Algorithms- Clustering, Dimensionality Reduction using Principal Component Analysis	Tea	Session 10 Reinforcement Machine Learning- Agent, Environment & Learning, Markov Decision Process	Lunch	Session 11 Lab/Hands on Exp.	Tea
20/09/2019	Session 12 Artificial Intelligence on Cloud- Amazon Web Service, Azure Machine Learning, Google Cloud Platform IBM Watson	Tea	Session 13 Applications of Artificial Intelligence AI Chatbots, Alexa, Google Talk, Siri, Image Recognition, Medical Diagnosis, Self-driving cars and Drones, Natural Language Processing Recommendation Engines	Lunch	Session 14 Open Discussion	Valediction