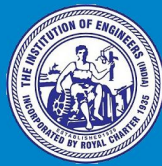


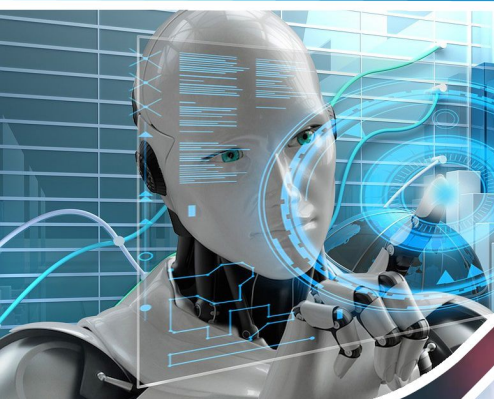


# ENGINEERING STAFF COLLEGE OF INDIA

Autonomous Organ of The Institution of Engineers (India)  
Old Bombay Road, Gachibowli, Hyderabad – 500 032. TS, India



**INFORMATION TECHNOLOGY DIVISION**



## One Week National Workshop **Artificial Intelligence with Python**

Organized in Association with



**Electronics & ICT Academy, MNIT Jaipur**  
An initiative of: Ministry of Electronics & Information Technology (MeitY)  
Government of India

**Venue**  
**MNIT**  
Jaipur

**DATE**

**28 June - 02 July 2019**



## Introduction

Humans have developed the power of computer systems in terms of their diverse working domains, their increasing speed, and reducing size with respect to time. Since the invention of computers or machines, their capability to perform various tasks has experienced an exponential growth. Today's world aims at the science and engineering of making intelligent machines, especially intelligent computer programmes. A branch of Computer Science that pursues creating the computers or machines as intelligent as human beings is named 'Artificial Intelligence'.

Artificial Intelligence (AI) is a way of making a computer, a computer-controlled robot, or a software think intelligently, in the similar manner the intelligent humans think. AI is accomplished by studying how human brain thinks and how humans learn, decide, and work while trying to solve a problem, and then using the outcomes of this study as a basis of developing intelligent software and systems.

The primary goals of AI include deduction and reasoning, knowledge representation, planning, natural language processing (NLP), learning, perception, and the ability to manipulate and move objects. Long-term goals of AI research include achieving Creativity, Social Intelligence, and General (human level) Intelligence.

## Workshop Contents

Basic concepts of AI.

Supervised Learning: Classification

- Building a Classifier in Python, Logistic Regression
- Decision Tree Classifier
- Random Forest Classifier

Supervised Learning: Regression

Unsupervised Learning: Clustering

Natural Language Processing

Analyzing Time Series Data

- Working with Python Pandas
- Extracting Statistic from Time Series Data

Speech Recognition

- Building a Speech Recognizer , Visualizing Audio Signals
- Feature Extraction from Speech
- Recognition of Spoken Words

Neural Networks

- Artificial Neural Networks(ANN)
- Perceptron based classifier
- Single & Multilayer Neural Networks

Computer Vision and Deep Learning

Deep Learning

- Convolutional Neural Network
- Linear Regression using ANN
- Image Classifier using Deep Learning.

## Prerequisite

Formal prerequisites include basic knowledge of algebra, and basic programming in any language.

## Who Should Attend

- Faculty / Professors / Research scholars/ Technical staff members of Engineering Colleges and Universities
- Data Managers, Data Analysts, Technical Managers, Scientist and People working in Government, Public sector, Private sector and Defence organizations

**Duration: 5 Days**

**Workshop Venue: E & ICT Academy, IInd Floor, Prabha Bhavan, MNIT Jaipur**

**Dates: 28 June - 02 July 2019**

## Timings

On the first day registration will commence at 09:00 Hrs. On all the other days the programme timings will be from 09:45 to 17:15 Hrs with breaks in between for tea and lunch

## Certificate

A certificate of participation will be awarded to each participant on conclusion of the programme.

## Course Fee

Participants from Academic Institutions : Rs.11,800 /-(Inclusive of GST)

Participants from Industry, Public,

Private Sectors & Govt Organization : Rs.17,700 /- (Inclusive of GST)

Fee includes course material, course kit, lunch, Tea / Coffee and Snacks during the actual days of training programme

## Accommodation Charges

Rs. 1500 Per day. AC Accommodation (Dual Sharing)

## ESCI Account Details

Cheque/DD's may kindly be in favour of "IE(I)-Engineering Staff College of India, Payable at Hyderabad"

PAN Card No. AAAT3439Q. GST No: 36AAAT3439Q1ZV

HS No.: 999293 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

Programme fee is to be paid in in favour of "THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA" in the form of demand draft payable at Hyderabad. Alternatively the payment may be made by Electronic Fund Transfer (EFT) to ESCI – Axis Bank A/c No. 912010049234564 with The Axis Bank Ltd, Old Mumbai Hwy, Cyberhills Colony, P Janardhan Reddy Nagar, Gachibowli Hyderabad-500032 by NEFT/ RTGS/ IFSC Code No. UTIB 0000733 – MICR No.50021 1020. While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.

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### Chairman, Advisory Board,

E&ICT Academy & Director MNIT Jaipur  
Prof. Udaykumar R. Yaragatti

### Honorary Academic Chair

E&ICT Academy  
Prof. V. Sinha

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### Chief Investigator, E&ICT Academy

Prof. Vineef Sahula, ECE

### Co-Chief Investigators, E&ICT Academy

Prof. L. Bhargava, ECE  
Dr. Pilli Emmanuel Shubhakar, CSE  
Dr. C. Periasamy, ECE  
Dr. S. J. Nanda, ECE  
Head, ECE (Prof. D. Boolchandani)  
Head, CSE (Prof. Girdhari Singh)

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### Program Manager, E&ICT Academy

Dr. Shailesh Sharma

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### The Head IT,ESCI

Syed Azgar  
8886661060 / 040 66304123

### Course Coordinator & BDM, ESCI

Rakesh Singh  
7013551765 / 040 66304121

## Engineering Staff College of India

Gachibowli, Hyderabad – 500 032

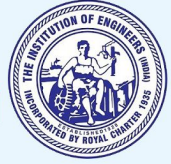
Mobile: 8886661060 Phone: 040 – 66304123/24/25

(Direct), Fax: 040 – 66404103

Email: it@escihyd.org, ict@escihyd.org



# One Week National Workshop **Artificial Intelligence with Python**



Organized by  
**Engineering Staff College of India (ESCI)**

28 June- 02 July 2019 at MNIT, Jaipur

In Association with



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An initiative of: Ministry of Electronics & Information Technology (MeitY),

Government of India

## Registration Form

We are nominating the following person(s) to attend this Training.

Accomodation Required

S. No	Name of the Delegate	Designation	Contact No.

Name: \_\_\_\_\_

Department: \_\_\_\_\_ Designation : \_\_\_\_\_

Organization: \_\_\_\_\_

Address : \_\_\_\_\_

City: \_\_\_\_\_ Pin code: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_ Web: \_\_\_\_\_

Authorized Signature and Stamp

**You are requested to send your reply by email :**

Head, IT Division

**Engineering Staff College of India**

Old Bombay Road, Gachibowli, Hyderabad – 500 032

Mobile: 8886661060

Phone: 040 – 66304123/24/25 (Direct), Fax: 040 - 23000336

Email: it@escihyd.org / ict@escihyd.org

Dr. Shailesh Sharma, PhD - Program Manager

**Electronics & ICT Academy,**

MNIT Jaipur - 302 017

Web: <http://www.mnit.ac.in/eict>

Email: [academy@mnit.ac.in](mailto:academy@mnit.ac.in),

[manager.academy@mnit.ac.in](mailto:manager.academy@mnit.ac.in)



# Glimpses of Our Recent Events

Continuing Professional Development Programme  
**Web Development using Angular JS**  
 21 - 25 May 18 at ESCI Campus, Hyderabad  
 Organized by: Engineering Staff College of India, Hyderabad, TS



Continuing Professional Development Program  
**Cyber Security Best Practices for Managers & Executives**  
 08 - 10 October, 2018 at ESCI Campus Hyderabad  
 Organised By: Engineering Staff College of India, Hyderabad, TS



ESCI was Awarded as the "Best Innovative Training Provider 2019"  
 By  
**Integrated Chambers of Commerce and Industry (ICCI) on 28 Feb, 2019**



One Week Hands-on Training Program for Women (Under Disha)  
**Internet of Things (IoT)**  
 17 - 21 Dec, 2018 at ESCI Campus  
 Organised by: Engineering Staff College of India, Hyderabad.

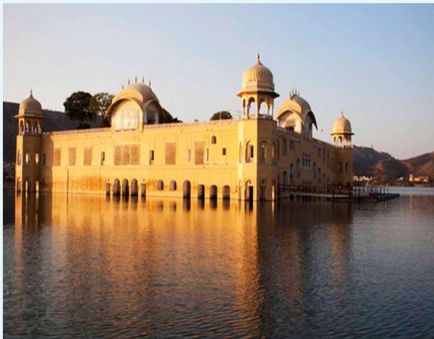
Sponsored by  
 विज्ञान एवं औद्योगिकी विभाग  
 DEPARTMENT OF  
 SCIENCE & TECHNOLOGY



Internship & Industrial Training Program For GJUS&T, Hisar  
**Internet of Things with IBM Cloud**  
 25 June - 2 August, 2018 at GJUS&T Campus  
 Organised By: Engineering Staff College of India, Hyderabad, TS



# Attractions of Jaipur



## Engineering Staff College of India

(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

OLD BOMBAY ROAD, GACHIBOWLI, HYDERABAD – 500 032, TS, INDIA

