



# NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

Center for Continuing Education & Department of Computer Science & Engg

## ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON Python Programming for Artificial Intelligence Applications

20<sup>th</sup> September 2021-24<sup>th</sup> September 2021

### About NIT Warangal

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 13 Departments offering eight undergraduate and 32 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure, state of the art library, seminar halls guest house and laboratory.

- written Digit Recognition.
- Python file handling, data/time
- Real Time Object Detection using OpenCV and DNN
- Tensor Flow and Keras Using Python, Cognitive image classification.
- Face Mask Recognition System using Tensor Flow and Keras, Introduction to cognitive computing and its recent application
- Cognitive Animal Monitoring system (iWildCam 2021) using YOLO5, Supervised and un supervised learning, Back Propagation.
- Cognitive Bird sound detection and classification

The Sessions will be handled by the experts From **IITs/NITs/ Central University and Professor from U. S. Universities.**

### How to Apply

Interested candidates can apply online by clicking below link

<https://forms.gle/PubFAKpVDbFgf4aH8>

**Registration Deadline: 19<sup>th</sup> September 2021**

**Timings: Morning 9.Am to 12.Pm.**

### Who should Attend?

The Programme is open to all Faculty/Research Scholars/ Industry Professionals/MCA/MBA/Degree/Polytechnic and other eligible students can register the course

**Registration: FEE is 500. (Hundred only).**

**For industry: FEE is 1000. (Thousand only).**

A soft copy of the filled registration form should be uploaded in Google Forms on or before 5<sup>th</sup> September, 2021.

Confirmation mails will be sent to the selected participants before two days of the commencement of the FDP. Once registration is done your selection/participation is confirmed.

### BANK DETAILS

<b>Account Name:</b>	<b>CCE NITW</b>
<b>BANK NAME :</b>	<b>SBI</b>
<b>ACCOUNT NO :</b>	<b>62403680215</b>
<b>IFSC CODE :</b>	<b>SBIN0020149</b>
<b>BRANCH :</b>	<b>NIT WARANGAL</b>

The interested individuals may register on the first come first serve basis. Since, this FDP is open for all Indian participants; the seats are limited to 100 only.

Participants will get E-certificate upon completion of the course.

### Address for Correspondence

**Any Further queries, Please FEEL FREE contact the coordinator.**

#### Dr. Raju Bhukya

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Incharge CCE & Coordinator,  
Department of CSE,  
NIT Warangal,

**Mobile:** 9700553922, 8332969733

**Email :** [cce@nitw.ac.in](mailto:cce@nitw.ac.in), [raju@nitw.ac.in](mailto:raju@nitw.ac.in).

### About Center for Continuing Education

This Centre of NIT Warangal organizes Continuing Education Programmes and Workshops in the frontier areas of Science, Engineering, Technology, Management, Humanities, Social Science and Socially relevant themes on self-financing basis in three different modes: (i) At NIT Warangal by NIT Warangal (ii) At NIT Warangal in collaboration with other organizations (iii) By NIT Warangal Faculty at the Host Organization/Institute.

### About Department of Computer Science & Engg

The Department of Computer Science and Engineering (CSE) offers B.Tech course in CSE, M.Tech courses in CSE, Information Security (IS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Accenture, Infosys, TCS, EMC2, C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. Department conducts various sponsored programmes like GIAN, International and national conferences throughout the year.

### Course Content

- Introduction to Python Programming, Data types,
- Operators, Control Flow, Functions, Scripting, Classes.
- **Softwares-** Jupyter Notebook, Anaconda, Tensorflow
- **Packages-** Pandas, Numpy, and Matplotlib.
- AI with Python- Algorithms, Neural Networks Algorithm.
- **Project-** Object Detection, Face Identification, Fake news identification on Web.
- **Project-** Lung Disease Prediction using image , Hand