



NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

Center for Continuing Education & Department of Computer Science & Engg

Online Short-Term Course on Advanced Python Programming

19th February 2023- 28th February 2023

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.



About Center for Continuing Education

The Center for Continuing Education NIT Warangal organizes FDPs/Training programmes/Seminars/Workshops etc., 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 (ii) At NIT Warangal in collaboration with other organizations/Engineering Colleges / Institutes (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

Basics of Python Programming,

Introduction to Python: Indentation, Python Variables, Python Data Types, Built In Datatypes- Lists, Tuples and Dictionaries.

Python functions: Python Exception Handling, Python Control Flow, Python File Handling.

Using Python: Data Processing and Data Visualization Using – Pandas, Introduction, Series, Data frames, Read CSV Cleaning Data and Analyzing the Data.

Using Python: Data Processing and data Visualization Using – Numpy, Creating Arrays, Array Indexing, Array Slicing, Data Types.

Numpy: Array Shape, Array Reshape, Array Iterating, Join, Split,

Array filter.

Using Python: Data Processing and Data Visualization Using – Matplotlib, Pyplot, Plotting, Markers, Line.

Matplotlib: Labels, Grid, Subplot, Scatter, Bars, Pie charts.

Python Package: GUI Programming, TK Inter, Configuring Window.

TK Inter: Widgets, Buttons, Labels, Entry Fields, Text Fields, Menu Buttons.

NLTK: Tokenization, Sentence Tokenization, Word Tokenization, Frequency Distribution, Stop Words, Lexicon Normalization, Stemming, Lemmatization, POS Tagging.

Project: Text to speech Conversion, Password Generation.

90% Session will be Hands on/Practicals.

Course Objectives: Upon the completion of the STC the participants/trainee can understand/Gain knowledge in solving the real world problems.

Resource Persons:

The Sessions will be handled by the experts from IITs/NITs/Central universities/Software Industry.

Day wise Recordings will be provided.

How to Apply

Interested candidates can apply online by clicking below link

<https://forms.gle/XjwsCacZU7CPc9kd8>

Participants details need to be filled and payment details uploaded by using above link in Google Forms on or before **18th February 2023.**

Registration Deadline 18th February 2023.

Who should Attend?

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

Registration Fees:

Faculty: 1000 (Thousand only).

Industry Professionals: 2000 (Two Thousand only).

Foreigner:- 50 USD.

Bank Account Details

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

Confirmation mails will be sent two days before the Programme. Once Paid/Registered you are Confirmed.

The interested individuals may register on the **FCFS** basis the seats are limited to 300 only.

E-Certificate: Participants will get **e-certificate** upon completion of the STC course.

Any Further queries, please contact the Coordinator.

Address for Correspondence

Dr. Raju Bhukya

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