NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

Center for Continuing Education & Department of Computer Science & Engg

SHORT TERM COURSE on
Artificial Intelligence Machine Learning & Deep Learning using Python for Beginners
22nd November 2021- 01st December 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 programs besides doctoral programs. 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 programs/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 programs like GIAN, International and national conferences throughout the year.

Course Content

Introduction: Getting Started, Keywords and Identifiers, Python Operators, Python Namespace, Python I/O and import, Statements & Comments, Python Variables, Python Datatypes, Python Type Conversion,

Python Flow Control: Python if...else, Python for Loop, Python while Loop Python break and continue, Python Pass

Python Functions: Python Functions, Function Argument, Python Recursion Anonymous Function, Global, Local and Nonlocal, Python Global Keyword, Python Modules, Python Package.

Python Files: Python File Operation, Python Directory, Python Exception Python Exception Handling, and Python User-defined Exception

Python Object & Class: Python OOP, Python Class, Python Inheritance, Python Operator Overloading.

Python Advanced Topics:- Python Iterator, Python Generator, Python Closure, Python Decorators, Python Property, Python Reg Ex, Python Example.
ANN, Back Propagation, RNN, Types of RNN, Deep RNN and Bidirectional LSTM.
Softwares: Jupiter Notebooks, Anaconda, Tensorflow, CUDA.
Packages: Pandas, Numpy, and Matplotlib.
Artificial Learning: Artificial Narrow Intelligence, Artificial General Intelligence, Artificial super Intelligence, Challeges and opportunities in Artificial Intelligence.
Machine Learning: Supervised, Un Supervised, ReinForcement learning, Challenges and opportunities in Macchine Learning.
Supervised: Regression, Classification.
Un- Supervised: Clustering, Association.
Deep Learning: Conventional Neural Networks, Recursive Neural Networks, Generative adversarial networks, Deep Natural language Processing.
Real time Projects and Case studies will be discussed

Course Objectieves:-
- Upon the completion of the STC the participants/trainee can understand/Gain knowledge in solving the real world problems in AI, ML and DL.

Resource Persons:-
The Sessions will be handled by the experts From IITs/NITs/Cental universities/Software Industry.
Day wise Recordings will be provided.

How to Apply
Interested candidates can apply online by clicking below link

https://forms.gle/99hALjapMPoE4ZCR6

Participants details need to be filled and payment details uploaded by using above link in Google Forms on or before 21st November, 2021.

Registration Deadline: 21st November 2021.
Timings: Evening 4.30.pm to 7.30.p.m

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).
Foreigners:- 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 Participation is confirmed.
The interested individuals may register on the **FCFS** basis the seats are limited to 250 only.

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

Address for Correspondence

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Any Further queries, please contact the Coordinator.