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Sri. Ananthula Vinay Kumar Reddy,
Chairman

Sri. Chintala Ravindranath Yadav,
Secretary

Sri. Nirvetla Sharath Reddy,
CEO & Treasurer

Sri. Ananthula Hriday Reddy,
Vice-Chairman

PATRON

Dr. S. Sai Satyanarayana Reddy,
Principal, Professor of CSE

CONVENERS

Dr. Shaik Abdul Nabi,
Head of the Department, Professor of CSE

Dr. S Venkata Achuta Rao
Professor of CSE

COORDINATORS

G Sravan Kumar, Associate Professor, CSE
C Phaneendra, Assistant Professor, CSE

REGISTRATION LINK

https://forms.gle/2eKoNCvRATYbxAUXA

Note : No Registration Fee

ADVISORY COMMITTEE

Dr. Suresh Akella, Dean-R&D,
Dr. Panduranga Rao, Dean-IQAC
Prof. B. Sreenivasu, HOD - ECE.
Prof Md. Naseeruddin, HOD - H&S
Dr. A C Umamaheshwer Rao, HOD – MECH
Prof. K Sridhar Reddy, HOD – CIVIL
Dr. Ashwani Kumar, HOD-AI&ML
Dr. Jayaram, HOD-DS
Dr. V. Goutham, Professor, CSE
Dr. M. Purushotham, Professor, CSE
Dr. D. Shanthi, Professor, CSE
Dr. N Swapna Suhasini, Professor, CSE
Prof. P Harsha, Incharge, Datacenter

ORGANIZING COMMITTEE

Mrs. Padma Joshi, CSE
Mr. V. Biksham, CSE
Mr. N.Santhosh Ramchander, CSE
Mr. Salar Mohd, CSE
Mr Ananda R Kumar Mukkala, CSE
Mr. A.Venkata Srinivas, CSE
Mrs. Lubna Yasmeen, CSE
Mrs. P. Archana, CSE
Mr. P. Nagaraj, CSE
Mrs. T.Jagadeeshwari, CSE
Mr. B.Maha Lakshmi, CSE
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Mr. K.K.Swamy, CSE
Mr.K. Narsimhulu, CSE
Mrs. A.Sunitha, CSE
Mrs. Y.Sireesha, CSE
Mrs. P.Srilatha, CSE
Mrs. P.Lavanya, CSE
Mr. M.Sudhakar, CSE

One Week Hands-On Workshop on "Python Programming for Machine Learning"
From 22nd - 28th April 2021
Timings 01:30 PM – 04:00 PM

ORGANIZED BY
DEPARTMENT
OF
COMPUTER SCIENCE AND ENGINEERING

SREYAS
INSTITUTE OF ENGINEERING AND TECHNOLOGY

ABOUT THE COLLEGE

Sreyas Institute of Engineering & Technology was established in the year 2011 under the agencies of Sreyas Educational society.The Institute endeavors to impart high quality, competency based technical education in Engineering and technology to students with skills and abilities to face challenging needs of industry and society. The Institute is approved by All Indian Council for Technical Education (AICTE), New Delhi and affiliated to JNTUH.

DEPARTMENT PROFILE

The Department of Computer Science and Engineering since its inception in the year 2011 offers programme keeping in pace in technological advancements. Currently Department offers Undergraduate course B.Tech in CSE with an intake of 240 students, AI and ML with an intake of 120 and also Data Science with an intake of 120 students**.** Importance to practical training which lay great stress on "hands on" experience besides a sound theoretical background is practiced. Short term courses and technical lectures by eminent professors and professionals are arranged on a regular basis to broaden the knowledge spectrum of students. The state-of-the-art Computer Center has more than 1000 computers with 100 Mbps internet connectivity. The department has highly qualified and well experienced faculty to offer both class room teaching and practical instructions. The department has established Industry ready training academies such as Google Cloud, CISCO, AWS(Amazon Web Services), Oracle, Robotics Process Automation etc., It has an excellent track record of the placements, More than 80% students are placed in well reputed Multinational Companies.The Department motto is **"Step into Learn and Step out to Serve"**.

RESOURCE PERSONS

Mr. M.Naresh Choudary, CSE
Dr. M.Jayaram,HOD-DS
Prof K Maduravani, CSE
Prof K.Ramya Laxmi, CSE
Prof A.Swathi, CSE
Prof S.Pallavi, ECE

WHAT IS PYTHON?

Python is a general purpose high level programming language whose design philosophy emphasizes code readability.

WHY PHYTHON?

- ❖ Easy to learn
- ❖ Portable and cross-platform.
- ❖ Full-fledged programming language.
- ❖ Excellent scientific computing libraries.
- ❖ Supports both Procedural and Object Oriented Programming.
- ❖ SAGE, NumPy, SciPy, Matplotlib and Cython make Python an open source alternative to MATLAB, Mathematica, Magma and Maple.

APPLICATION OF PYTHON

- ❖ User Interfaces
- ❖ 2D/3D Graphics
- ❖ Web development
- ❖ Exploration and Visualization
- ❖ Numeric and Symbolic computation
- ❖ High Performance Parallel Computing

WHY SHOULD YOU ATTEND?

- ❖ Fully Hands-on. Interactive Learning.
- ❖ Opportunity to learn one of the popular and applicable programming language.

TOPICS COVERED

- ❖ History of Python, Installation, Python Features, Bytecode, Python Indentation, Python Comments, Variables, Python Keywords, Python I/O and Operators
- ❖ Control Statements, Numbers and Strings
- ❖ Lists, Tuples and Dictionaries
- ❖ Other Built-in Types, Unsupported Types and Files
- ❖ Exceptions, Modules and Packages: Numpy
- ❖ Modules and Packages: Pandas, Matplotlib, Scipy, Scikit-learn, Tensor Flow, PyTorch and Keras

WORKSHOP OBJECTIVE

- ❖ Provide insights into Python Programming to design & develop applications confidently and acquire specific skills towards Machine Learning, Artificial Intelligence, Data Science, etc.
- ❖ Able to handle classes with profound Python Programming Skills.

SALIENT FEATURES

- ❖ 100% Hands-on Training will be given
- ❖ Participant-centered learning Material(Softcopy) will be provided
- ❖ Regular Programming Exercises & Assignments will be given
- ❖ List of Programs with Solutions will be provided.
- ❖ Assessment test will be conducted after the workshop
- ❖ E- Certificate will be provided to the eligible participants (80% of attendance & 60% of marks in the assessment test)

SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

Affiliated to JNTUH Hyderabad, Approved by AICTE, New Delhi

(Accredited by NAAC)

Certificate of Participation

This is to certify that Dr./Mr./Mrs./Ms._____ **G SRAVAN KUMAR**_____

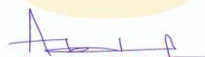from_____ **Sreyas Institute of Engineering and Technology**_____

participated in the *"One Week Hands-On Workshop on Python Programming for Machine Learning"*

Organized by Department of Computer Science and Engineering, Sreyas Institute of Engineering and

Technology, Hyderabad from 22nd April to 28th April 2021.

Dr. S Venkata Achuta Rao
Convenor
Professor of CSE

Dr. Shaik Abdul Nabi
Professor
HOD-CSE

Dr. S. Sai Satyanarayana Reddy
Principal
Professor of CSE

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Certificate of Participation

This is to certify that Dr./Mr./Mrs./Ms. **SOHAIL NIZAMUDDIN**

from **Sreyas Institute of Engineering and Technology**

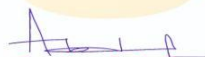participated in the *"One Week Hands-On Workshop on Python Programming for Machine Learning"*

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SREYAS INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to JNTUH)
Thatti Annaram(v), Bandlaguda, Nagole, Hyderabad - 500068.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

One Week Hands-On Workshop on
"Python Programming for Machine Learning"
(From 22nd - 28th April 2021)

Course Objectives: This course will enable participants to

- Learn Syntax and Semantics and create Functions in Python.
- Handle Strings and Files in Python.
- Understand and Implement Lists, Dictionaries and Exceptions in Python.
- Handle Modules and Packages used in Machine Learning.

Course Outcomes: The participants should be able to:

- Examine Python Syntax & Semantics and be fluent in the use of Python Flow Control & Functions.
- Demonstrate proficiency in handling Strings and File Systems.
- Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries
- Can evaluate Exception Handling
- Interpret the concepts of Modules and Packages used in Machine Learning.

Day wise Schedule: **(Timings: 1.30 pm to 4.00 pm)**

Date / Day	Topics Covered
22-04-2021 (Thursday)	History of Python, Installation, Python Features, Bytecode, Python Indentation, Python Comments, Variables, Python Keywords, Python I/O and Operators
23-04-2021 (Friday)	Control Statements, Numbers and Strings
24-04-2021 (Saturday)	Lists, Tuples and Dictionaries
26-04-2021 (Monday)	Other Built-in Types, Unsupported Types and Files
27-04-2021 (Tuesday)	Exceptions, Modules and Packages: Numpy
28-04-2021 (Wednesday)	Modules and Packages: Pandas, Matplotlib, Scipy, Scikit-learn, Tensor Flow, PyTorch and Keras

COORDINATOR   **HOD**   **PRINCIPAL**