

ABOUT US:

SV College of Engineering (SVCE), SV Engineering College for Women (SVEW) and SV college of Engineering, Kadapa(SVCK) are part of the SV Colleges group established in 2007, 2009 and 2016 respectively with a vision to become a leader in providing quality educational services creating value by offering superior educational programmes, supported by exceptional service. The colleges have a goal of evolving into a hub of academic research. The colleges are affiliated to JNTUA and approved by AICTE, New Delhi. The group offers UG Courses (CE, CSE, ECE, EEE, IT& ME), PG Courses (DSCE, VLSI, ES, CS, CSE, AMS, PS, MCA & MBA). ECE, CSE, EEE Programmes of SVCE are accredited by **NBA** and **NAAC** with grade 'A'. The campus is equipped with state of art Laboratories and classrooms with LCD Projectors to make Teaching and Learning simpler and enjoyable. The central library has a large collection of books, journals and online resources for the benefit of students and faculty.

The department of Computer Science and Engineering was established in the year 2007, right from the inception of the college, with an annual intake of 60 students for B.Tech programme and subsequently the intake was enhanced to 120 in the year 2009 and to 180 in 2013. At present (a.y. 2014 - 15), the department

intake for undergraduate (B.Tech) is 180. Department also offers two M.Tech programmes namely M.Tech (CSE) and M.Tech (CS) with an intake of 18 each. There is a lot of demand for computer professionals from the software industry, at the same time, there is a stress on the quality of education and training. This has resulted in modernizing the laboratories, updating the teaching learning process and exposure to the latest technologies.

About Tirupati:

Tirupati is a city in Chittoor district of the Indian state of Andhra Pradesh. It is a municipal corporation and the headquarters of Tirupati (urban) mandal, and of the Tirupati revenue division.

As of 2011 census, it had a population of 374,260, making it the ninth most populous city in Andhra Pradesh. It is the seventh most urban agglomerated city in the state, with a population of 459,985. Tirupati is considered one of the holiest Hindu pilgrimage sites because of Tirumala Venkateswara Temple, besides other historical temples, and is referred to as the "*Spiritual Capital of Andhra Pradesh*" Tirupati is also home to many **educational institutions and universities**

Objective of the Workshop:

To learn how to design object-oriented programs with Python classes

- To understand why Python is a useful scripting language for developers.
- To learn how to design and program Python applications.

- To learn how to use lists, tuples, and dictionaries in Python programs.
- To learn how to identify Python object types.
- To learn how to use indexing and slicing to access data in Python programs.
- To define the structure and components of a Python program.
- To learn how to write loops and decision statements in Python.
- To learn how to write functions and pass arguments in Python.
- To learn how to build and package Python modules for reusability.
- To learn how to read and write files in Python.

For Registration: <http://tiny.cc/dutfyy>
Submit the Google form on or before 30th September 2018.

For Further Details Please Contact:

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Resource Person

Praveen Kumar Singh

Topics to be Covered

- 1) Python Intro and Available IDE's
 - 2) Python 2.7.x or 3.x
 - 3) Installation and Setup Discussion
 - 4) Data Types/Structure, functions and Important packages(with modules and class) -- With Demo
 - 5) Defining Data Science and Brief About Data Scientist's Toolbox
 - 6) Numpy and Pandas --- With Demo
 - 7) Data Manipulation (File I/O) and Engineering -- with Demo
 - 8) Data Visualization -- With Demo
 - 9) NLTK(Natural Language ToolKit) -- With Demo
 - 10) Overview of ML methodology
 - 11) Exploratory Data Analysis -- With Demo
 - 12) Feature Engineering
 - 13) Statistics and Probability Distribution
 - 14) Hypothesis Testing -- With Demo
 - 15) Introduction to Machine Learning
 - 16) Supervised Machine Learning -- With Demo
 - 17) Unsupervised Machine Learning -- With Demo
 - 18) Machine Learning Models Evaluations -- With Demo
 - 19) Regularization and Hyperparameter tuning
 - 20) Ensemble Modelling
 - 21) Surprise Project -- With Demo
- Use case overview
Define Problem Statement
Business Solution with Blueprint Development
Explore and Define the ML Use Case
Exp. Data Analysis and Feature Engineering
Discuss Various Approach for Model Development, evaluation and Optimization
Storyboarding

Note:

1. **Registration Fee**
: 300/ Student/ Research Scholar
2. **During Workshop Snacks will be provided.** The participants are expected to make their own travel arrangements.

Organizing Committee

Chief Patrons

Sri. A. Gangi Reddy

Chairman

Sri. A. Rami Reddy

Correspondent

Sri. Prakash Ambavaram

Vice-Chairman

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Dr. N. Sudhakar Reddy

Principal, SVCE

Dr. T. Kalpalatha Reddy

Principal, SVEW

Convener

Dr. P E S N Krishna Prasad

Professor & Head, CSE

Coordinators

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S V COLLEGE OF ENGINEERING

**DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING**



In Association With



Jointly Organizing

3-Day Hands - On Session

**“PYTHON PROGRAMMING
AND DATA ANALYTICS”**

04~06, Oct 2018