

28th April 2021

One day Faculty Development Programme was organized by the department of Computer Science and Engineering on 28th April 2021. The FDP was conducted through Zoom meeting in online mode. More than 240 participants have participated in the FDP in which 50 are from various colleges.

Dr.D.Sujatha,HOD,CSE, has welcomed the participants and thank our Director, principal for giving an opportunity on conducting this FDP. She also brief about the FDP and insists the participants to make use of this opportunity in learning newer things on python.

Dr.S.Srinivasa Rao, Principal, MRCET and **Dr.A Venu Gopal, Dean, MRCET** has formally addressed the faculty and participants with a warm welcome note.

Dr. V.S.K. Reddy, Director, MRCET addressed the faculty and participants about the need and benefits of Python. Also he took the session by giving an overview of python by its comparison, features, difference, flavors, application and its data types and few other basics.

Resource Persons are:

Dr. V.S.K. Reddy, Director, MRCET Mrs. K.Nirosha Asst. Professor, Dept. of CSE Mr. A.Syam Prasad, Assoc. Professor, Dept. of CSE Mr.A.Saleem, Asst. Professor, Dept. of CSE K.Srilakshmi, Asst. Professor, Dept. of IT

Topics covered on FDP:

Overview of Python

MODULE 1:

Introduction to programming, Downloading and installing Python

Data Structures, Types-User define, predefine, List, List comprehension, Arrays vs List, Tuples, Set, Dictionaries, Expressions, Slicing, strings, String processing, Python memory model: names, mutable and immutable values.

Variables and Operators, Control Flows and Loops

MODULE 2:

Functions, Functions Defining Your Own Functions, Calling Functions, passing parameters and arguments, Python

Function arguments: Keyword Arguments, Default Arguments, Variable-length arguments, Anonymous

Functions, Fruitful Functions (Function Returning Values), Scope of the Variables in a Function – Global and Local Variables. Powerful Lambda functions in python. Advanced comprehensions

MODULE 3: OOP Concepts:

Classes and objects in python, types of variables, types of methods, inheritance, Encapsulation, Polymorphism, Abstraction, special functions, constructors

MODULE 4: Data Structure:

General Data Structures (Liner Data Structures ,Non-Liner Data Structures, Python Specific Data Structures)

Stacks and Queues implementation, Linked List (find, insert, delete)

All the session was handled by the faculty in effective way with hands on session that makes the participants to understand more on the python concepts. There was also a query session in which the participant gets their doubts clarification. At the end of session Dr.D.Sujatha, HOD, CSE has thanked the Director, Principal and the speaker's for their support in making the event a grand success.

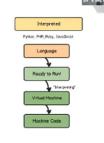


Features of Python

Interpreted Language

Python is an interpreted language i.e. interpreter executes the code line by line at a time. This makes debugging easy and thus suitable for beginners.

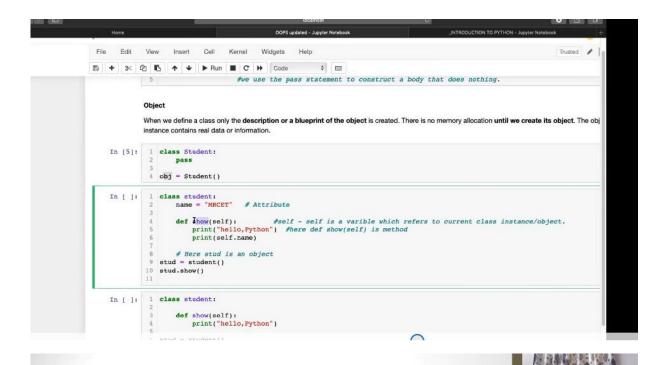
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GUI Programming Support

Graphical user interfaces can be developed using Python

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• In cmd prompt give,	
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<pre>Hello from a function Second line []: Function blocks begin with the keyword def followed by the function name and parentheses "()". Any input_parameters or arguments should be placed within these parentheses. You can also define parameters inside these parentheses. The first statement of a function can be an optional statement - the documentation string of the</pre>	-



Stack

- A stack is a linear data structure that stores items in a Last-in-First-out manner.
- It is used for evaluating expressions and syntax parsing, scheduling algorithms or routines, etc.
- Stacks can be implemented using lists in Python.
- Addition and removal of elements is done at the same end.
- The insert and delete operations are often called push and pop.