

Chapter/Student Branch Name: CMR Technical Campus

Region: V

Event Date: 15th July to 30th July 2020.

Event Title: “Student Development Program on Python Programming”

Speakers: Dr. Rajkumar Pathra, professor CSE Cmrtc, Mr. N Bhaskar, Assoc Professor, Dr K Srinivas, Professor, CSE Dept, Dr T. S.Mastan Rao, Professor CSE Dept, Dr M Varaprasad Rao, Professor CSE

Gist :-

Advanced topics related to Python Programming been covered by the Professors and Associate Professor of the institute in online mode during the Pandemic Period.



CMR TECHNICAL CAMPUS

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**Department of Computer Science and Engineering
Presents**

SKILL DEVELOPMENT PROGRAM

ON

PYTHON PROGRAMMING

FOR

ALL B.TECH. STUDENTS OF CMRTC

INSTRUCTORS:

DR RAJ KUMAR PATRA, PROFESSOR

MR N BHASKAR, ASSOC. PROFESSOR

DR K SRINIVAS, PROFESSOR

DR T S MASTAN RAO, PROFESSOR

DR M VARAPRASAD RAO, PROFESSOR

**E Certificates will be awarded to every participant upon
completion of the course**

Registration link:

https://docs.google.com/forms/d/e/1FAIpQLSeKPOX9CtMZMg2uNrwKqeisiTpaWJI8jWXjevKpf5Bcplc9gw/viewform?usp=sf_link



15TH JULY – 30TH JULY 2020



CMR Technical Campus, Hyderabad



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Schedule for the Skill Development Program on Python Programming

S.No	Date & Day	Time	Module	Topics	Name of Instructor
1	15-07-2020, Wednesday	2hrs	Introduction to Python Programming	➤ History of Python Installing Python ➤ Executing Python Programs ➤ Internal Working of Python ➤ Python Implementations ➤ Python Character Set, Token ➤ Python Core Data Type	Dr Raj Kumar Patra

				➤ print() function ➤ Assigning Value to Variable ➤ input() function ➤ eval() function ➤ Formatting Number and Strings ➤ Operators and Expressions	
2	16-07-2020, Thursday	2hrs	Decision Statements,	➤ Boolean Type ➤ Boolean Operators ➤ Using Number and Strings with Boolean Operators ➤ Decision Making Statements and Conditional Expressions	
3	17-07-2020, Friday	2hrs	Loop Control Statements	➤ While loop ➤ range() Function ➤ For Loop ➤ Nested Loops ➤ Break Statement ➤ Continue Statement	
4	18-07-2020, Saturday	2hrs	Functions and Strings	➤ Syntax and Basics of a Function ➤ Use of a function ➤ Parameters and Arguments ➤ Local and Global Scope ➤ Scope of a Variable ➤ return statement and ➤ Recursive Functions ➤ Stringclass ➤ Inbuilt functions for String ➤ index[] operator ➤ Traversal of String ➤ String operators ➤ String Operations	Dr K Srinivas
5	20-07-2020, Monday	2hrs	Lists and Dictionaries	➤ Pandas Creating Lists ➤ Basic list operators ➤ Slicing ➤ Inbuilt functions for Lists ➤ List operations ➤ List Methods ➤ Splitting ➤ Need of Dictionary ➤ Creating a Dictionary ➤ Adding and Replacing Values ➤ Retrieving Values ➤ Deleting Items and Traversing Dictionaries	Mr N Bhaskar

6	21-07-2020, Tuesday, 22-07-2020, Wednesday	2hrs 2hrs	Tuples and Sets	➤ Creating Tuples ➤ Tuple () Function ➤ Inbuilt Functions for Tuples ➤ Indexing and Slicing ➤ Operations on Tuples ➤ Traverse Tuples from a List ➤ Set operators ➤ Set class.	Mr N Bhaskar
7	23-07-2020, Thursday	2hrs	File Handling	➤ Need of File Handling ➤ Opening files ➤ Text files and lines ➤ Reading files ➤ Searching through a file ➤ Using try, except, and open ➤ Writing files	Dr T S Mastan Rao
8	24-07-2020, Friday, 25-07-2020, Saturday	2hrs 2hrs	Object Oriented Programming	➤ Classes and objects ➤ Getting started Using objects ➤ Object lifecycle ➤ Methods ➤ Operator Overloading ➤ Inheritance ➤ super () ➤ Method Overriding.	Dr M Varaprasad Rao
9	27-07-2020, Monday, 28-07-2020, Tuesday, 29-07-2020, Wednesday, 30-07-2020, Thursday	2hrs 2hrs 2hrs 2hrs	Data Handling and Visualization	➤ Data Handling ➤ Pandas: Using Pandas, the python data analysis library and data frames ➤ NumPy : The Numerical Python ➤ SciPy: The Scientific Python ➤ Data Visualization using Matplotlib	Dr M Varaprasad Rao