

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Palani Highway, Dindigul – 624 002, Tamilnadu.

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Fax: 0451 – 2448855

Computer Science And Engineering

16/11/2019

CIRCULAR

We would like to inform that, Computer Science And Engineering department is about to conduct ten weeks training program on "Python with Advanced Concepts". The interested students are instructed to register their names with Ms. S. Bharathi , AP/CSE on or before 30/11/2019 with out fail. Your effective participation is appreciated..

HOD/CSE

From

Ms. S. Bharathi, AP/CSE Ms. M. Kiruthika, AP/CSE

Department of Computer Science and Engineering,

SSM Institute of Engineering and Technology,

Dindigul

To

The Principal, SSM Institute of Engineering and Technology, Dindigul.

Through

The Head of the Department, Department of Computer Science and Engineering, SSM Institute of Engineering and Technology, Dindigul.

Respected Sir,

Sub: Requisition to conduct Value added Course to our Students at our college- Reg.

We are planning to conduct Value added Course "Python with Advanced Concepts" at our college during the even semester of the academic year 2019-20. The course schedule is enclosed with this letter for your reference. Hence we kindly request your permission to conduct and guide the same.

Thanking You Sir,

Date: 15.11.2019 Place: Dindigul

Yours Faithfully,

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Ms.S. Bharathi, AP/CSE Ms. M. Kiruthika, AP/CSE

HoD/CSE

Dr.V.Shunmughavel

Principal

Dr.D.Senthilkumaran

Enclosure:

1. Python with Advanced Concepts Course Schedule

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.

Department of Computer Science and Engineering Academic Year 2019-2020 VALUE ADDED COURSE

PYTHON WITH ADVANCED CONCEPTS

S.No.	Week	Topic Title	Topic Details
1.	Week 1	Introduction to Python Spyder tool	 Introduction Spyder Setting working Directory Creating and saving a script file File execution, clearing console, removing variables from environment, clearing environment Commenting script files Variable creation Arithmetic and logical operators Data types and associated operations
2.	Week 2	Python-Data Structure	Data Structure Strings Lists Tuples Dictionary Sets
3.	Week 3	Python- Control structures Numpy Packages	 Control structures if-else family for loop for loop with if break while loop Numpy Array Matrix and associated operations Linear algebra and related operations
4.	Week 4	Pandas Library	Pandas dataframe and dataframe related operations on Toyota Corolla dataset Reading files Exploratory data analysis Data preparation and preprocessing
5.	Week 5	Data visualization	Data visualization on Toyoto Corolla dataset using matplotlib and seaborn libraries • Scatter plot • Line plot • Bar plot • Histogram • Box plot • Pair plot

6.	Week 6	Python - Object Oriented	 Python - Object Oriented Overview of OOP Terminology Creating Classes Creating Instance Objects Accessing Attributes Destroying Objects (Garbage Collection
7.	Week 7	Python - Object Oriented	 Python - Object Oriented Class Inheritance Overriding Methods Base Overloading Methods Data Hiding
8.	Week 8	Python with Database	Python with Database
9.	Week 9	Python-GUI	Python-GUI Button Canvas Checkbutton Radio Button Frame Label ListBox
10.	Week 10	Python-GUI	Python-GUI Menu Menu Button Message Scale Scroll Bar Text Panel Window Label Frame Message Box

M. Windlist 11/19

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