Python

Semester - 1

Session No	Topic	Learning Targets	Activity/Projects
Session 1	Introduction to Python	Learn the basic concepts of Python	
Session 2	Variables, Datatypes and Comments	Learn about creating variables for storing values of different datatypes and adding comments	Project – Performing Different Mathematical Operations
Session 3	Input Function	Learn how to accept value from user	Program – Percentage Calculator
Session 4	Conditional Statements	Learn Conditional statements like if,if not and if else	Project – Age validation for vaccination, Grade Calculator
Session 5	Conditional Statements	if..elif..else	Project - BMI Calculator
Session 6	Simple Functions	Learn user defined functions	Project – ATM Program
Session 7	Simple Functions	Learn user defined functions	
Session 8	Turtle Module	Learn how to draw anything in python using Turtle Module	Program – Drawing Face using Turtle Module
Session 9	Feed the Turtle Game		Project – Feed the Turtle Game
Session 10	Feed the Turtle Game		
Session 11	Feed the Turtle Game	Learn how to develop game using turtle Module	
Session 12	Quiz Session		

Python

Semester - 2

Session No.	Topic	Learning Targets	Activity/Project
Session 1	List	Learn how to create list and perform different operations in it.	
Session 2	For Loop	Learn about For Loop	Project- Printing Multiplication Table
Session 3	While Loop	Learn about While Loop	Project – Printing Patterns
Session 4	Snake Game	Learn how to develop Snake Game	Project – Snake Game
Session 5	Snake Game	Learn how to develop Snake Game	
Session 6	Snake Game	Learn how to develop Snake Game	
Session 7	Introduction to Tkinter Module	Learn about Tkinter Module	Project – GUI Application
Session 8	Widgets into the Tkinter Module	Learn how to create and add widgets to Tkinter module	
Session 9	Digital clock	Learn how to develop digital clock using Tkinter Module	Project – Digital Clock
Session 10	Simple Calculator	Learn how to develop simple Calculator	Project – Simple Calculator
Session 11	Simple Calculator	Learn how to develop simple Calculator	
Session 12	Quiz Session		

Session No.	Topic	Learning Targets	Activity/Project
Session 13	Percentage Calculator	Learn how to develop Percentage Calculator	
Session 14	Percentage Calculator	Learn how to develop Percentage Calculator	
Session 15	Age Calculator	Learn how to create Age Calculator	
Session 16	Age Calculator	Learn how to create Age Calculator	
Session 17	Dictionary	Learn how to create dictionary and perform different operations in it.	
Session 18	Lambda Function	Learn how to use lambda function	