ACADEMIC CURRICULUM PLAN

LESSON PLAN 2023 (WINTER) classes from 1/08/2023

Discipline: Information Technology	Semester :5th	Name of the Teaching faculty: Manalisa Giri	Remark
Subject: PYTHON PROGRAMMING LAB	No.of Days/per week class allotted : 02	Semester from date: 1/08/2023 to 30/11/2023 No. of weeks: 15	
Week	Class Day	Practical Topics	
1st	1st	Brief History of Python, Python Versions ,Installing Python ,Environment Variables ,Executing Python from the Command Line ,IDLE.	
	2nd	Editing Python Files, Python Documentation, Getting Help, Dynamic Types, Python Reserved Words ,Naming Conventions.	
2nd	1st	Basic Syntax ,Comments ,String Values , String Methods.	
	2nd	The format Method, String Operators ,Numeric Data Types.	
3rd	1st	Conversion Functions, Simple Output, Simple Input ,The % Method	
	2nd	The print Function.	
4th	1st	Indenting Requirements, The if Statement, Relational and Logical Operators	
	2nd	Bit Wise Operators ,The while Loop, break and continue, The for Loop.	
5th	1st	Introduction of Collection, Lists, Tuples, Sets.	
	3rd	Dictionaries ,Sorting Dictionaries, Copying Collections, Summary	
6th	1st	Introduction of Function , Defining Your Own Functions, Parameters ,Function Documentation.	
	2nd	Keyword and Optional Parameters ,Passing Collections to a Function, Variable Number of Arguments ,Scope.	
7th	1st	Functions - "First Class Citizens", Passing Functions to a Function, map, filter.	
	2nd	Mapping Functions in a Dictionary, Lambda, Inner Functions, Closures.	
8th	1st	Modules ,Standard Modules – sys, Standard Modules – math.	
	2nd	Standard Modules – time, The dir Function.	
9th	1st	Errors ,Runtime Errors ,The Exception Mode.	
	2nd	Exception Hierarchy, Handling Multiple Exceptions, Raise, assert.	

10th	1st	Introduction Of Input and Output, Data Streams, Creating Your Own Data Streams.	
	2nd	Access Modes, Writing Data to a File, Reading Data From a File.	
11th	1st	Additional File Methods, Using Pipes as Data Streams, Handling IO Exceptions.	
	2nd	Classes in Python ,Principles of Object Orientation, Creating Classes.	
12th	1st	Instance Methods, File Organization, Special Methods	
	2nd	Class Variables, Inheritance, Polymorphism	
13th	1st	Introduction Of Regular Expressions, Simple Character Matches	
	2nd	Special Characters, Character Classes, Quantifiers.	
14th	1st	The Dot Character, Greedy Matches.	
	2nd	Grouping, Matching at Beginning or End.	
15th	1st	Match Objects, Substituting, Splitting a String.	
	2nd	Compiling Regular Expressions, Flags	

29/7/23

Signature Of the Faculty