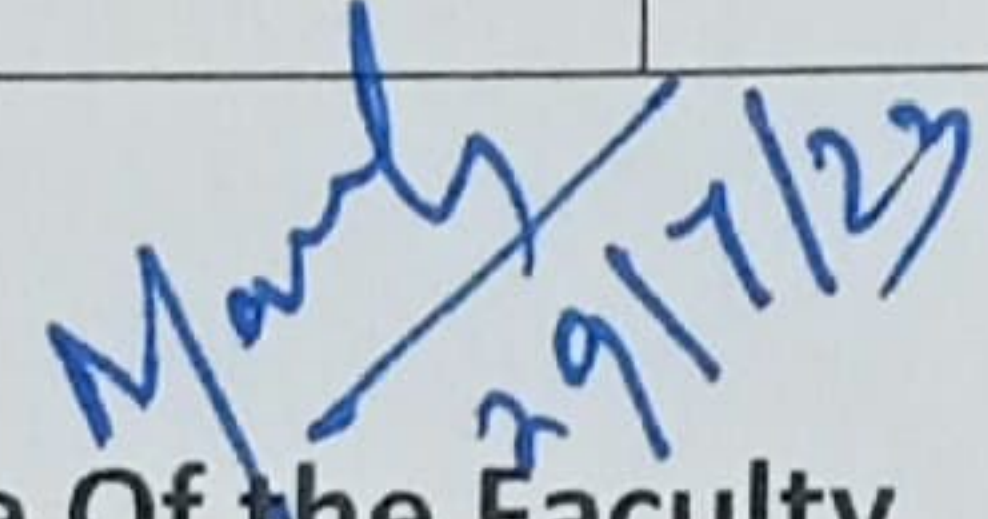


ACADEMIC CURRICULUM PLAN

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	
1 st	1 st	Brief History of Python, Python Versions ,Installing Python ,Environment Variables ,Executing Python from the Command Line ,IDLE.	
	2 nd	Editing Python Files, Python Documentation, Getting Help, Dynamic Types, Python Reserved Words ,Naming Conventions.	
2 nd	1 st	Basic Syntax ,Comments ,String Values , String Methods.	
	2 nd	The format Method, String Operators ,Numeric Data Types.	
3 rd	1 st	Conversion Functions, Simple Output, Simple Input ,The % Method	
	2 nd	The print Function.	
4 th	1 st	Indenting Requirements, The if Statement, Relational and Logical Operators	
	2 nd	Bit Wise Operators ,The while Loop, break and continue, The for Loop.	
5 th	1 st	Introduction of Collection, Lists, Tuples, Sets.	
	3 rd	Dictionaries ,Sorting Dictionaries, Copying Collections, Summary	
6 th	1 st	Introduction of Function , Defining Your Own Functions, Parameters ,Function Documentation.	
	2 nd	Keyword and Optional Parameters ,Passing Collections to a Function, Variable Number of Arguments ,Scope.	
7 th	1 st	Functions - "First Class Citizens", Passing Functions to a Function, map, filter.	
	2 nd	Mapping Functions in a Dictionary, Lambda, Inner Functions, Closures.	
8 th	1 st	Modules ,Standard Modules – sys, Standard Modules – math.	
	2 nd	Standard Modules – time, The dir Function.	
9 th	1 st	Errors ,Runtime Errors ,The Exception Mode.	
	2 nd	Exception Hierarchy, Handling Multiple Exceptions, Raise, assert.	

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


 Signature Of the Faculty