

## ACADEMIC CURRICULUM PLAN

### LESSON PLAN 2022 (WINTER) classes from 15/09/2022

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: 15/09/2022 to 22/12/2022 No. of weeks: 15	
Week	Class Day	Practical Topics	
1 <sup>st</sup> (15Sep2022- 17Sep2022)	1 <sup>st</sup>	Brief History of Python, Python Versions ,Installing Python ,Environment Variables ,Executing Python from the Command Line ,IDLE.	
	2 <sup>nd</sup>	Editing Python Files, Python Documentation, Getting Help, Dynamic Types, Python Reserved Words ,Naming Conventions.	
2 <sup>nd</sup> (19Sep2022- 24Sept2022)	1 <sup>st</sup>	Basic Syntax ,Comments ,String Values , String Methods, The format Method, String Operators 22 ,Numeric Data Types.	
	2 <sup>nd</sup>	Conversion Functions, Simple Output, Simple Input ,The % Method, The print Function.	
3 <sup>rd</sup> (26Sept2022- 1oct2022)	1 <sup>st</sup>	Indenting Requirements, The if Statement, Relational and Logical Operators	
	2 <sup>nd</sup>	Bit Wise Operators ,The while Loop, break and continue, The for Loop.	
4 <sup>th</sup> (03Oct2022- 08Oct2022)	1 <sup>st</sup>	Puja Vacation	
	2 <sup>nd</sup>		
5 <sup>th</sup> (10Oct2022- 15Oct2022)	1 <sup>st</sup>	Introduction of Collection, Lists, Tuples, Sets.	
	3 <sup>rd</sup>	Dictionaries ,Sorting Dictionaries, Copying Collections, Summary	
6 <sup>th</sup> (17Oct2022- 22Oct2022)	1 <sup>st</sup>	Introduction of Function , Defining Your Own Functions, Parameters ,Function Documentation.	
	2 <sup>nd</sup>	Keyword and Optional Parameters ,Passing Collections to a Function, Variable Number of Arguments ,Scope.	
7 <sup>th</sup> (25Oct2022- 31Oct2022)	1 <sup>st</sup>	Functions - "First Class Citizens", Passing Functions to a Function, map, filter.	
	2 <sup>nd</sup>	Mapping Functions in a Dictionary, Lambda, Inner Functions, Closures.	
8 <sup>th</sup> (1Nov2022-	1 <sup>st</sup>	Modules ,Standard Modules – sys, Standard Modules – math.	
	2 <sup>nd</sup>	Standard Modules – time, The dir Function.	

05Nov2022)			
9 <sup>th</sup>	1 <sup>st</sup>	Errors ,Runtime Errors ,The Exception Mode.	
(7Nov2022-12Nov2022)	2 <sup>nd</sup>	Exception Hierarchy, Handling Multiple Exceptions, Raise, assert.	
10 <sup>th</sup>	1 <sup>st</sup>	Introduction Of Input and Output, Data Streams, Creating Your Own Data Streams.	
(14Nov2022-19Nov2022)	2 <sup>nd</sup>	Access Modes, Writing Data to a File, Reading Data From a File.	
11 <sup>th</sup>	1 <sup>st</sup>	Additional File Methods, Using Pipes as Data Streams, Handling IO Exceptions.	
(21Nov2022-26Nov2022)	2 <sup>nd</sup>	Classes in Python ,Principles of Object Orientation, Creating Classes.	
12 <sup>th</sup>	1 <sup>st</sup>	Instance Methods, File Organization, Special Methods	
(29Nov2022-3Dec2022)	2 <sup>nd</sup>	Class Variables, Inheritance, Polymorphism	
13 <sup>th</sup>	1 <sup>st</sup>	Introduction Of Regular Expressions, Simple Character Matches	
(5Dec2022-10Dec2022)	2 <sup>nd</sup>	Special Characters, Character Classes, Quantifiers.	
14 <sup>th</sup>	1 <sup>st</sup>	The Dot Character, Greedy Matches.	
(12Dec2022-17Dec32022)	2 <sup>nd</sup>	Grouping, Matching at Beginning or End.	
15 <sup>th</sup>	1 <sup>st</sup>	Match Objects, Substituting, Splitting a String.	
(19Dec2022-22Dec2022)	2 <sup>nd</sup>	Compiling Regular Expressions, Flags	

Mandy  
12/19/22

Name of the Lecturer