PNS SCHOOL OF ENGG. & TECH., MARSHAGHAI

DEPA	RTMENT OF COMPU	TER SCIENCE ENGINEERING LESSON PLAN		
BRANCH: CSE	SEMESTER : 5TH	NAME OF THE TEACHING FACULTY: MR. BISWARANJAN SWAIN SEMESTER FROM DATE: 01.07.2024 TO 08.11.2024		
SUBJECT : PYTHON PROGRAMMING	NO. OF DAYS PER WEEK CLASS ALLOTTED : 02			
WEEK	CLASS DAY	LAB TOPICS		
₁ \$T	1 st	Introduction Brief History of Python, Python Versions, Installing Python Environment Variables, Executing Python from the		
וכן	2 nd	Editing Python Files, Python Documentation, Getting Help Dynamic Types, Python Reserved Words, Naming		
2 ND	1st	Basic Python Syntax Basic Syntax, Comments, String Values, String Method The format Method		
	2 nd	String Operators, Numeric Data Types, Conversion Functions Simple Output, Simple Input, The % Method, The print		
3 RD	1st	Language Components Indenting Requirements, The if Statement, Relation and Logical Operators, Bit Wise Operators, The whil Loop		
	2 nd	Collections Introduction, Lists, Tuples, Sets, Dictionaries, Sorting, Dictionaries, Copying Collections, Summary		
4 TH	1 st	Functions Introduction, Defining Your Own Functions, Parameters Function Documentation, Keyword and Optional Parameters		
	2 nd	Functions - "First Class Citizens", Passing Functions to Function, map, filter, Mapping Functions in a Dictionary		
₅ тн	1st	Modules Modules, Standard Modules - sys, Standard Modules math		
	2nd	Exceptions Errors, Runtime Errors, The Exception Model, Exception Hierarchy, Handling Multiple Exceptions,		
	1st	Input and Output Introduction, Data Streams, Creating Your Own Data		

Streams, Access Modes

6 ¹ m		Writing Data to a File Dooding Data France a File
		Writing Data to a File, Reading Data From a File,
	2 nd	Additional File Methods, Using Pipes as Data Streams,
		Handling IO Exceptions
	1st	Classes in Python
		Classes in Python, Principles of Object Orientation
7 TH		Creating Classes, Instance Methods
	2 nd	File Organization, Special Methods, Class Variables
		Inheritance, Polymorphism
	1st	Regular Expressions
		Introduction, Simple Character Matches, Special
8 TH		Characters Characters The Det Characters
	2nd	Character Classes, Quantifiers, The Dot Character
	2	Greedy Matches, Grouping, Matching at Beginning or
	. ct	Match Objects, Substituting, Splitting a String,
	1 st	Compiling Regular Expressions, Flags
9TH	2 nd	Create a string containing at least five words and store
y		it in a variable. Print out the string.
		Convert the string to a list of words using the string
		split method.
		Sort the list into reverse alphabetical order using some
	₁ st	of the list methods (you might need to use dir(list) or
		help(list) to find appropriate methods).
TII		Print out the sorted, reversed list of words.
10 TH	2nd	Write a program that determines whether the
		number is prime.
		Find all numbers which are multiple of 17, but not the
		multiple of 5, between 2000 and 2500?
11 TH	1 st	Swap two integer numbers using a temporary
		variable. Repeat the exercise using the code format: a,
		b = b, a. Verify your results in both the cases.
	2 nd	Find the largest of n numbers, using a user defined
		function largest().
		Write a function my Reverse() which receives a string
		as an input and returns the reverse of the string.
12 ^{ТН}	1 st	Check if a given string is palindrome or not.
		WAP to convert Celsius to Fahrenheit
	2nd	Find the ASCII value of characters
		WAP for simple calculator
		WAI TOI SIMPLE CALCULATOR

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