

PNS SCHOOL OF ENGG. & TECH., MARSHAGHAI

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING LESSON PLAN

BRANCH : CSE	SEMESTER : 5TH	NAME OF THE TEACHING FACULTY : MR. BISWARANJAN SWAIN
SUBJECT : PYTHON PROGRAMMING	NO. OF DAYS PER WEEK CLASS ALLOTTED : 02	SEMESTER FROM DATE: 01.08.2023 TO 30.11.2023
WEEK	CLASS DAY	LAB TOPICS
1ST	1 st	Introduction Brief History of Python, Python Versions, Installing Python Environment Variables, Executing Python from the
	2 nd	Editing Python Files, Python Documentation, Getting Help Dynamic Types, Python Reserved Words, Naming
2ND	1 st	Basic Python Syntax Basic Syntax, Comments, String Values, String Methods The format Method
	2 nd	String Operators, Numeric Data Types, Conversion Functions Simple Output, Simple Input, The % Method, The print
3RD	1 st	Language Components Indenting Requirements, The if Statement, Relational and Logical Operators, Bit Wise Operators, The while Loop
	2 nd	Collections Introduction, Lists, Tuples, Sets, Dictionaries, Sorting, Dictionaries, Copying Collections, Summary
4TH	1 st	Functions Introduction, Defining Your Own Functions, Parameters Function Documentation, Keyword and Optional Parameters
	2 nd	Functions - "First Class Citizens", Passing Functions to a Function, map, filter, Mapping Functions in a Dictionary
5TH	1 st	Modules Modules, Standard Modules - sys, Standard Modules - math
	2 nd	Exceptions Errors, Runtime Errors, The Exception Model, Exception Hierarchy, Handling Multiple Exceptions,
6TH	1 st	Input and Output Introduction, Data Streams, Creating Your Own Data Streams, Access Modes

6 TH	2 nd	Writing Data to a File, Reading Data From a File, Additional File Methods, Using Pipes as Data Streams, Handling IO Exceptions
7 TH	1 st	Classes in Python Classes in Python, Principles of Object Orientation Creating Classes, Instance Methods
	2 nd	File Organization, Special Methods, Class Variables Inheritance, Polymorphism
8 TH	1 st	Regular Expressions Introduction, Simple Character Matches, Special
	2 nd	Character Classes, Quantifiers, The Dot Character Greedy Matches, Grouping, Matching at Beginning or
9 TH	1 st	Match Objects, Substituting, Splitting a String, Compiling Regular Expressions, Flags
	2 nd	Create a string containing at least five words and store it in a variable. Print out the string. Convert the string to a list of words using the string split method.
10 TH	1 st	Sort the list into reverse alphabetical order using some of the list methods (you might need to use dir(list) or help(list) to find appropriate methods). Print out the sorted, reversed list of words.
	2 nd	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 TH	1 st	Check if a given string is palindrome or not. WAP to convert Celsius to Fahrenheit
	2 nd	Find the ASCII value of charades WAP for simple calculator

Biswarayan Swain

SIGNATURE OF H.O.D

Biswarayan Swain

SIGNATURE OF LECTURER

