## SHREE SWAMI ATMANAND SARASWATI INSTITUTE OF TECHNOLOGY INTEGRATED M.SC IT DEPARTMENT



## Laboratory Plan

Faculty Name: Prof. Neha Surti

Subject Name & Code: Python Programming-1 (1350505) Claw: 3rd Year (5th Sementer-31)

Academic Year: 2025-26.

Batch: A

30-06-2025 to 17-10-2025

50.50	Term Duration: 30-06-2025 to 17-10-2025			
	List of Experiment	Plan	Actual	
1	Wille a pushon	Date	Date	
	Write a python program to implement simple calculator(should division and exponent operation)			
	division and exponent operation) multiplication, division, floor			
2				
_	Demonstrate use of type() and id() function with different data types of python.			
	y pos or pythoon.			
3	Write a program to find those numbers which are divisible by 5			
	and multiplication of 2 to the mumbers which are divisible by 5			
	and multiplication of 3, between 200 and 400 (both are			
4	Write a program to print the extension of the given filename.			
5	Write a pro-			
-	Write a program to print 1st and last colour from the given list.			
	List 1 = ['red', 'blue', 'green', 'yellow', 'white', 'black']			
6				
	Write a program to check whether an alphabet is a vowel or consonant. Take the input character from the user.			
7	Write a python program to generate empty list and perform	-		
	• insertion of elements in it using append(), extend() and insert()			
89404	• print length of list, value of element located at index 2,			
	occurrences of element located at index 2 and print			
or of the second	reverse list			
W. B. O.	<ul> <li>Check whether specific value is available in list using</li> </ul>			
	membership operator			
	<ul> <li>Deletion of elements using pop(), remove() and clear()</li> </ul>			
į	methods			
	,			
8	Write a python program to generate tuple of integer values and			
	print it's length, summation of all elements of tuple, minimum			
	value from tuple, maximum value from tuple and also print tuple			
	in sorted order.			
	Write a python program to generate empty dictionary and			
9	write a python program to generate empty and many and perform following operations on it.			
1	senomi ionowing operations on the			

			and the second s
	<ul><li>add values in it with keys.</li><li>Print dictions.</li></ul>		
	print dictionary		*
1	Get vol.		* .
	Get value of specific key (if key not found then		•
	default value should be returned)  Sort content of diet		
	• Sort content of dictionary		
10	Write		
10	Write a python program function to generate all the factors of number. (number is entered by user).		
1	number. (number is any function to generate all the factors of		
	number. (number is entered by user).		
11	Wille a program		
3,	Write a program which iterates the integers from 1 to 10. For multiplication of 4 print "computer" instead of the number and are multiples of both.		
	for multiplication of 4 print "computer" instead of the number and are multiples of both 4 and 5 print "Computer Department".		
	are multiples of 5 print "Department".		,
	both 4 and 5 print "Community of humbers which		
12	are multiples of both 4 and 5 print "Computer Department".  Write a program 4		
12	Program to nouf-		
	Print the digits from 1 to 20 in the form of list. (using		
	range()) range())		
	1 IIII all the	. "	
13	Print all the even numbers from the above list.	1.0	
	Write a Python program to add 'ing' at the end of the given string with 'ing' at least 3). If the given string is also had 'ing' at the end of the given string is also had 'ing' at least 3.		
	(length should be at least 3). If the given string is already ends		
	will lift then add to Sivel stille is already ends		
	string is less than 3, leave it unchanged.		
	ged.		
14	Write a program to find the factorial of given number using recursive function.		
	recursive function and the factorial of given number using		
	Tunction.		
15	Write a nuthour C		
	Write a python function to calculate the sum of three given numbers, if the values are equal then return to the calculate the sum of three given		, ,
	numbers, if the values are equal then returns trice of their sum.		
16	Waite		
10	Write a program to generate Fibonacci series for N terms using function.		
	function.		
			100
. 17	Write a python program to perform the following operation for		
	addition, subtraction, multiplication, division and modulo using		
,	function.		
,			
18	Write a python program to print the land.		
10	Write a python program to print the length of each line in the file.		
10			
19	Write a python program to print first 15 bytes from file using		
	with open.	* *	
20	Draw a graph which satisfied following condition.		-
	• $x = \text{range}(10)$		
	$\bullet  y = \cos(x)$		
			,
	• graph should be "dot-dashed"		
. *	• Give the label to x-axis "this is X dimension"		
ō "	Give the label to y-axis "this is Y dimension"		. **
21	Give the Title to graph "This is My First Graph"	74.	
21	Draw a graph which satisfied following condition given		-
41			e 100
500 jul	practical.		
	• Give the limit to x-axis (-2,12)		
	• Give the limit to y-axis (-2,2)	1000	stop of a to
	Display Annotation		Company of the following
-	1715DIGY AIMOUNTS	and the	The second section is

22	Plot Line plot with formatting to display two student's data with last 4 semester SPI. also use legend in plot, different line styles and marker characters.	
23	Write a python program to do line plotting, scatter plotting, Bar chart, box plot, histogram and pie chart.	
24	Write Python program to plot time series with trends of sales.	
25	Write a python program to Generate directed and undirected graph.	
26	Python Program demonstrate following:  • Read content of text file using uploading, streaming and	 
	<ul><li>sampling methods from "Colors.txt" file</li><li>Read Content of CSV file</li></ul>	
27	Write a python program to plot image and display its information. Generate another image from previous image by cropping it.	
27	Write a python program to define a module and import a specific function in that module to another program.	
30	Write a program to print each line of a file in reverse order. Write a program to compute the number of characters, words and lines in a file	
31	Write a program to compute the number of characters, words and lines in a file	
32	Write a python program to demonstrate searching algorithm.	
33	Write a python program to perform different sorting algorithm.  Total Number of Experiment:	 33
	Total Number of Laboratory Conducted:	
	Total Number of Experiment Conducted:	•

Prof. Neha Surti Subject Faculty Prof. Neha Surti Subject Coordinator Dr. Brijesh Mehta HOD, IMSC IT-Department