PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE
Autonomous
Siddhartha Nagar, Vijayawada–520010
Re-accredited at 'A+' by the NAAC

23DAMAP121: Python Programming Lab

Programme: B. Sc. Hons. (Data Analytics) **Semester: II**
Teaching Periods: 30 **No. of Credits:1**

COURSE OUTCOME NO	Upon successful completion of this course, the student will be able to	PROGRAM OUTCOME NO
CO1	Write, Test and Debug Python Programs	**PO1**
CO2	Implement Conditionals and Loops for Python Programs	**PO1,PO2,PO3**
CO3	Organize code into modules for better code organization and reusability.	**PO2,PO3**
CO4	Use functions and represent Compound data using Lists, Tuples and Dictionaries	**PO3,PO4**
CO5	Implement OOP concepts and write applications in python.	**PO5,PO3**

CO-PO MAPPING MATRIX

	CO - PO	PO1	PO2	PO3	PO4	PO5	PO6
23DAMAP121	**CO1**	H					
	CO2	L	H	M			
	CO3		H	M			
	CO4			L	H		
	CO5			H		L	

List of Experiments:

1. Python Program to Find the Square Root
2. Python Program to Swap Two Variables
3. Python Program to Generate a Random Number
4. Python Program to Check if a Number is Odd or Even
5. Python Program to Find the Largest Among Four Numbers
6. Python Program to Check Prime Number
7. Python Program to Check Whether a number is Palindrome or Not
8. Python Program to Display the multiplication Table
9. Python Program to Print the Fibonacci sequence

10. Python Program to Check Armstrong Number
11. Python Program to Find the Sum of Natural Numbers
12. Python Program to Find Factorial of Number Using Recursion
13. Python Program to check given number is prime or not using functions.
14. Python Program to demonstrate usage of keyword, default and variable length arguments.
15. Python Program for lambda functions.
16. Python Program to create module and import it.
17. Python Program to create a list and perform operations on its contents.
18. Python Program to perform operations on tuples.
19. Python Program to create a dictionary and print its content.
20. Python program to perform operations on sets.
21. Python Program for inheritance.
22. Python Program for method overriding.
23. Python Program for exception handling.

Model Paper : Practicals

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SECTION: B.Sc. (Honours) Data Analytics **SEMESTER: II**

Max. Marks : 50 (CIA: 15 + SEE: 35) **Hrs/Week: 2**

Time: 3 Hrs **Max. Marks : 35**

Section - A

1. Experiment 1	15 M
2. Experiment 2	10 M

Section – B

Viva Voce	10 M
CONTINUOUS ASSESMENT(Internal)	**15 M**
Total	50 M

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