23AIMAP121: Python Programming Lab   **Year of Introduction: 2023-24**

Offered to : B.Sc. Honours (Artificial Intelligence)   **Course Type : Major 3(P)**

Teaching Periods: 30   **Semester - II**   **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	Implement 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
23AIMAP121	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.
24. Python Program to demonstrate exception handling.
25. Python Program to demonstrate user defined exception.

Question Paper Pattern for Practical Courses

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SEMESTER: II   Max. Marks : 50 (CIA: 15 + SEE: 35)

Model Paper : Practicals

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