Course Code	PYTHON PROGRAMMING LAB	L	T	P	C
23CS1008		0	0	3	1.5

Course Objectives:

Enable the student to

- 1. understand the basics of python programming concepts
- 2. apply the concepts of conditional statements, looping, control Statements, List, and dictionaries.
- 3. develop programs using object-oriented features, graphical user interfaces and image processing

Course Outcomes:

The student will be able to

- 1. write, test, and debug python programs.
- 2. implement conditional and looping statements for python programs
- 3. apply functions and represent data using lists, set, tuples, and dictionaries.
- 4. illustrate file I/O Operations in python program.
- 5. develop applications using classes and objects
- 6. construct applications with graphical user interface
- 1. Time complexity
- 2. Use of Control Statements in Python
- 3. List, Set & Tuple Manipulation
- 4. Dictionary Manipulation
- 5. Creating User Defined Functions
- 6. File Handling based Applications
- 7. Text processing using string functions
- 8. Design applications using classes and Objects
- 9. Creating applications using Inheritance
- 10. Graphics design using turtle and Image Processing
- 11. Graphical User Interface (GUI) application development
- 12. Accessing a database in a python applicationCreating a Chat Application

Exercises from the above list will be approved by the HoD during the start of the semester.

Recommended by Board of Studies	
Approved by Academic Council	

List of Exercises