



DEPARTMENT OF COMPUTER SCIENCES & ENGINEERING

PYTHON PROGRAMMING (CE314/CE343)

ASSIGNMENT

Unit-1 to 4

1. Define the term "computer" and explain its significance in modern society.
2. Explore various uses of computers across different fields and industries.
3. Define CPU (Central Processing Unit) and elaborate on its functions.
4. Explain the concept of memory hierarchy and its significance in computer architecture.
5. Discuss debugging in programming, highlighting common debugging techniques.
6. Identify and explain various types of errors encountered in programming.
7. Elaborate on Algorithms and flowchart. Also, discuss their role in programming.
8. Describe the concepts of Structured programming and its importance.
9. Discuss Programming methodologies such as top-down and bottom-up programming and compare their advantages.

Unit-5

1. Explain the Structure of a Python Program.
2. Introduce Python and its significance in the programming world.
3. Explain the functionality of a Python Interpreter.

Unit-6

1. Explain the precedence of arithmetic operators in Python with suitable examples.
2. Describe the significance of Python's indentation in code structure.
3. How does the Python shell facilitate code execution and experimentation?
4. Discuss the concept of strings in Python, highlighting their characteristics and operations.
5. List various categories of operators in Python. Provide examples illustrating the usage and functionality of any one operator category.

Unit-7

1. Explain different methods for accepting user input in Python.
2. Discuss various output formatting techniques in Python.
3. Highlight the differences among break, continue, and pass statements in Python.



Unit-8

1. Explain the characteristics and provide scenarios where different data structure of python would be most appropriate for usage.
2. Discuss the usage of date and time functionalities in Python.
3. Explain the concept of modules and their significance in Python programming.
4. Detail the process of defining functions in Python, highlighting their advantages.
5. Discuss the purpose and usage of the exit function in Python.

Unit-9

1. Define objects and classes in Python and discuss their relationship.
2. Provide examples demonstrating single and multiple inheritances in Python.
3. Discuss the importance of regular expressions in Python and provide examples.
4. Explain event-driven programming and its relevance in Python.
5. Describe the basics of GUI programming in Python and its libraries.