

## *SYLLABUS*

### **SKILL ENHANCEMENT COURSE**

# **Python Programming**

**3 CREDITS**

**50 Marks**

### **OBJECTIVE OF THE COURSE**

- Provide students with basics of python programming.
- Enhance problem solving skills by engaging in real world coding challenges, fostering ability to translate concepts into functional python code.
- To develop in students, problem-solving mindset through exposure to algorithmic thinking and guiding them through the implementation of algorithms in Python.
- To develop proficiency in data manipulation and analysis using python libraries and prepare students for practical application in various fields.

### **Course Outlines**

#### **Unit 1: Introduction to Programming**

- Algorithm
- Flowchart
- Programming Languages
- Compiler, Assembler, Interpreter

#### **Unit 2: Introduction to Python**

- Introduction
- Writing and executing First Python Program
- Using Commands

#### **Unit 3: Python Data Handling**

- Lists, Tuples, Dictionaries
- Sets and Strings
- File Handling Basics