

# **Python Programming**

## **Open Category OC 1**

### **COURSE OBJECTIVES**

1. To understand the structure and components of a Python program.
  2. To learn the basic construct of python programming for implementing interdisciplinary research-based problems.
  3. To plot data using appropriate Python visualization libraries for analysis
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### **Course Outline**

The course will highlight various programming concepts including Object Oriented paradigm which will eventually help the students to revise and learn new Programming concepts using Python. Python is widely used nowadays in the corporate world and finds its application in Artificial Intelligence , Data Sciences, Database management system, Web testing, Cyber Security and many more. This course will provide you basic foundation for the python programming language which will then help you to explore your area of interest using Python

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### **RECOMMENDED BOOKS**

1. Python Crash Course: A Hands-On, Project-Based Introduction to Programming, By Eric Matthes
  2. Learn Python the Hard Way: 3rd Edition
  3. T.R. Padmanabhan, Programming with Python, Springer, 1st Ed., 2016.
  4. Kenneth Lambert, Fundamentals of Python: First Programs, Cengage Learning, 1st Ed., 2012.
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