



Sub Committee for Curriculum Development

Course Name: Advanced Programming in Python

(UG/PG): UG

Number of Credits: 2

Level: 3

Learning Objective(s):

This is an advanced course on Python programming based on the foundation covered in "Introduction to Python". The course covers basics of Object oriented programming using Python and implementation of data structures using the built in types and libraries. On completion of this course, the students will be able to solve typical programming problems in Pythonic style.

This course will enable the students to implement the algorithms and concepts that are covered in the courses like Data structures, Object oriented techniques in the respective semesters.

Pedagogy:

Lectures
Hands On Lab Sessions

Pre-learning: Nil

Course Outline:

Sr. No.	Topic	Hours
1	Python -Review	3
2	Data Structures list , Tuples sequences sd3 Dictionaries	6
3	Exceptions	3
4	Input/output Formatted Printing File operations (open, read, seek)	5
5	Object Oriented programming Classes &objects scope overloading Composition	9

	Inheritance	
6	Overview of advance features of python std. library	4
		30

Books Recommended:

Dive into python Mark Pilgrim Apress
 Introduction to Python Dave Kuhlman

Suggested Evaluation Methods:

Mid-term examination
 Practical examination
 Quiz (moodle)
 Assignments

Parallel/Similar courses the existing curriculum:

Sr.No.	Name of the course	Institute where it was offered

Name of Member	Harshad Gune			
Designation	Associate Professor			
Org. / Inst.	SICSR			
Signature				

Name of the Expert:

Signature:

Date: