



## Sub Committee for Curriculum Development

**Course Name: Introduction to Python**

**(UG/PG): UG**

**Number of Credits: 2**

**Level: 2**

### **Learning Objective(s):**

Python is very simple, easy to learn, yet very powerful programming language. In the recent years it has gained popularity in several domains including web, scientific and engineering applications.

This is an introductory course on Python programming. The course aims at building the foundation for learning other programming languages and technologies in the subsequent semesters.

The course covers basics of python and its important 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 that are covered in the course Logic development.

### **Pedagogy:**

Lectures  
Hands on Lab Sessions

**Pre-learning:** Nil

### **Course Outline:**

<b>Sr.No.</b>	<b>Topic</b>	<b>No. of Hours</b>
<b>1</b>	<b>Introduction to Python</b> <ul style="list-style-type: none"><li>• Features of Python</li><li>• Python interpreter -<ul style="list-style-type: none"><li>• interactive and non-interactive mode</li></ul></li></ul>	<b>3</b>
<b>2</b>	Python Scripting <ul style="list-style-type: none"><li>• Data types</li><li>• operators</li><li>• control structures</li></ul>	<b>6</b>
<b>3</b>	Functions and modules <ul style="list-style-type: none"><li>• standard modules and library functions</li><li>• user defined functions</li></ul>	<b>15</b>
<b>4</b>	Structured Data Types <ul style="list-style-type: none"><li>• sequences</li><li>• lists</li><li>• dictionary</li></ul>	<b>6</b>

**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:**

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

Name of Member	Harshad Gune			
Designation				
Org. / Inst.				
Signature				

Name of the Expert:

Signature:

Date: