



ITA6017

Python Programming

Dr. Arun Pandian J



Course Objectives

- To design and apply programming constructs in python
- To learn how to write loops and decision statements in python
- To learn how to use lists, tuples, and dictionaries in python programs
- To apply embedded programming features in python



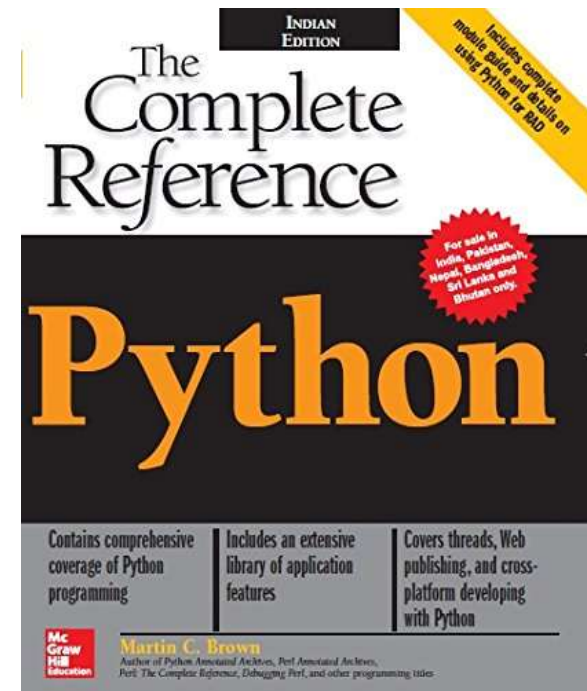
Expected Course Outcomes

1. Apply a solution clearly and accurately in a program using Python
2. Implement a given algorithm as a computer program using Python constructs
3. Demonstrate the implications of specialized data structures in Python
4. Develop simple embedded oriented applications in Python
5. Develop data visualization trends in Python



Text Book

- Martin C. Brown, Python: The Complete Reference, 20 Mar 2018, 4th Edition, McGraw Hill Education, USA.



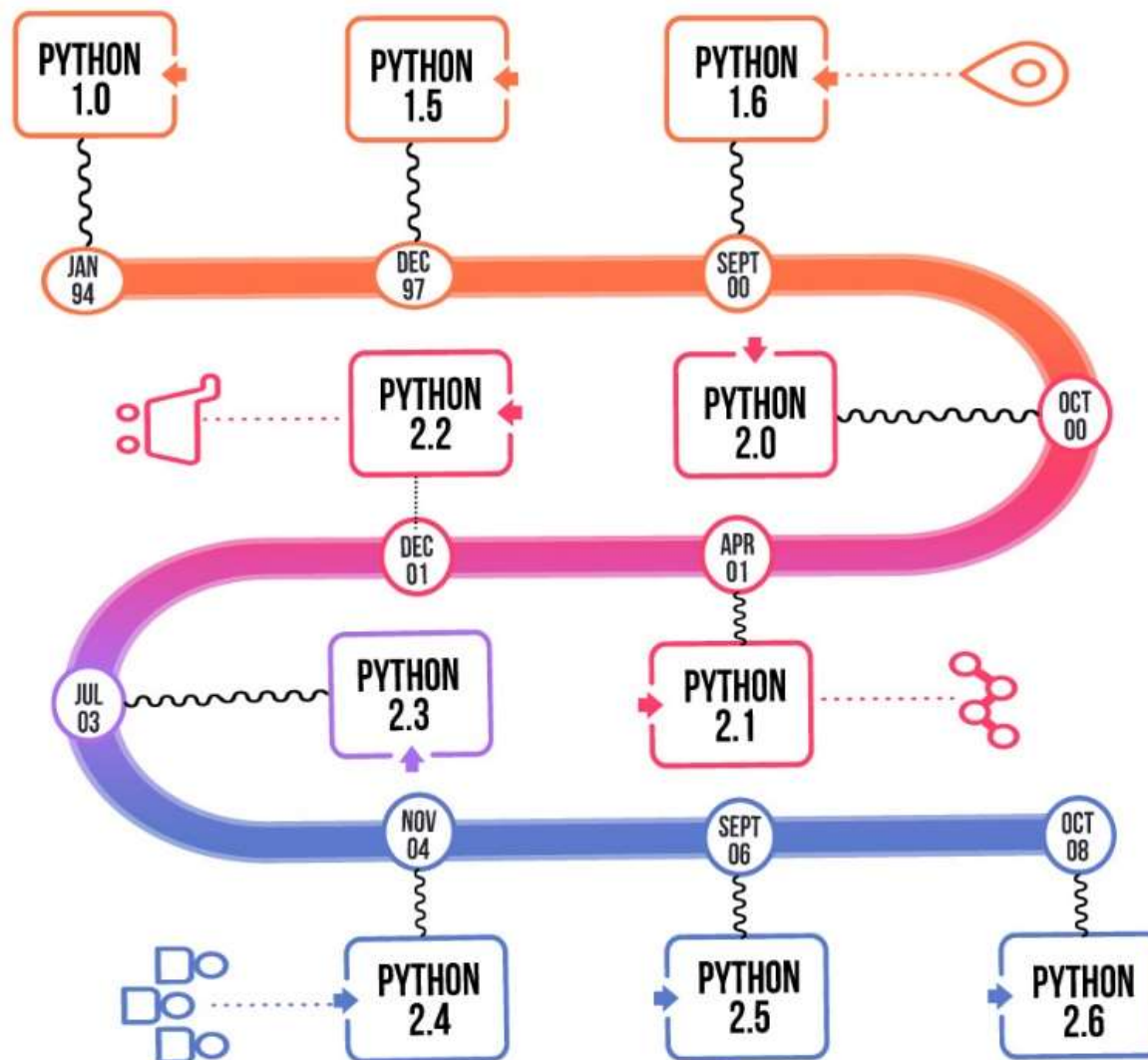


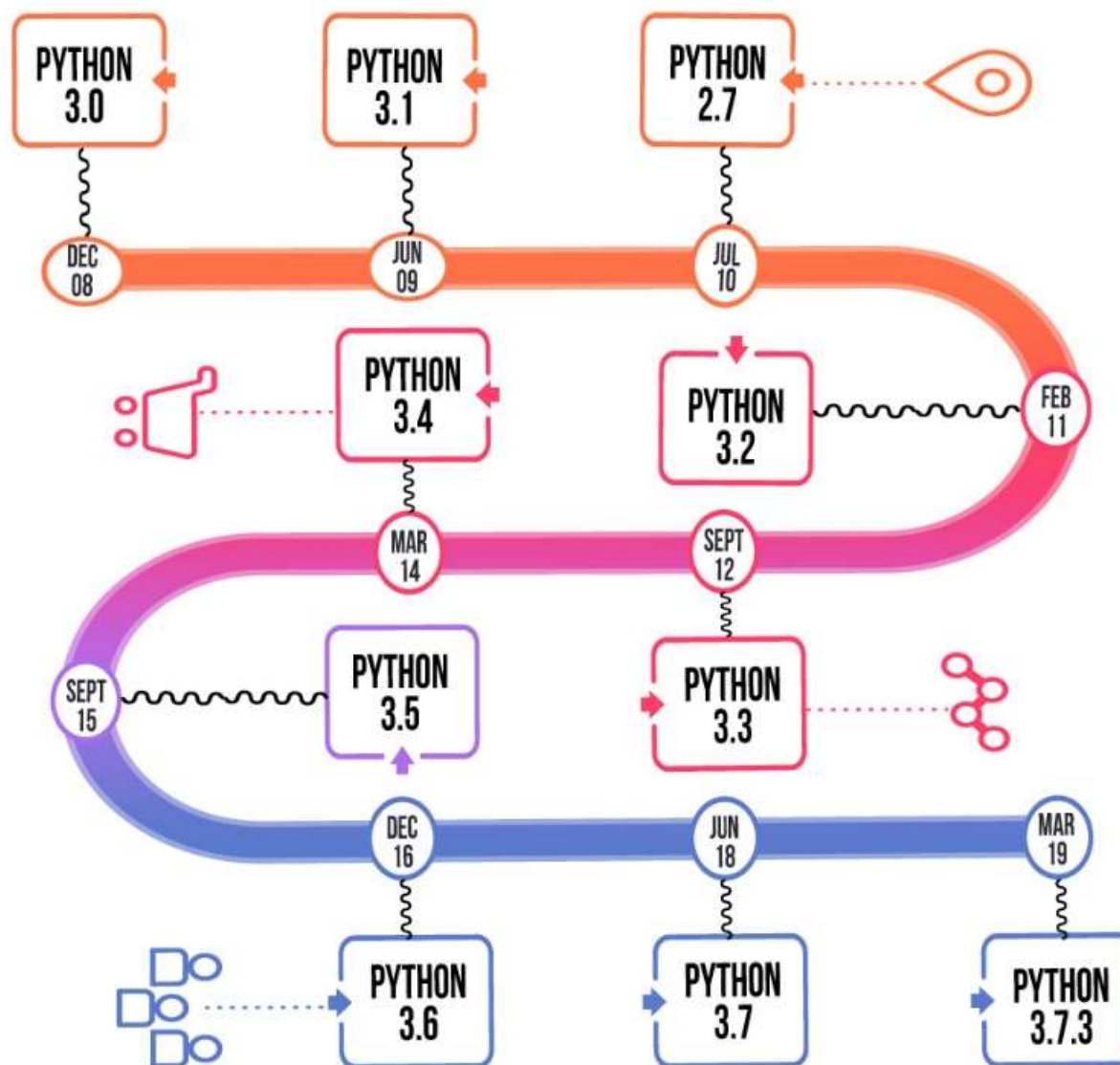
Module:1 Introduction to Python

History of Python, Unique features of Python, Demo on IDE, Ipython, Spyder etc., “Hello world” program in Python, Keywords, Identifiers, Reading input from user-Demo, Python Data Types, Declaring and using Numeric data types: int, float, complex and string

(4 Hours)

History







*Current version of python is
3.11.2*



Unique features of Python

- Easy to Code
- Easy to Read
- Free and Open-Source
- Robust Standard Library
- Interpreted
- Portable
- Object-Oriented and Procedure-Oriented
- Extensible
- Expressive
- Support for GUI
- Dynamically Typed