

**SARDAR PATEL UNIVERSITY**  
**Vallabh Vidyanagar**  
**Programme & Subject : B.Sc (CA & IT) – M.Sc (CA & IT) Dual Degree**  
**Semester – 3**  
**US03AIIT21 : Python Programming**  
**(w.e.f June 2020)**

**Credits : 2**

**External : 50 Marks**

**Contact Hrs per Week : 2**

**Exam Duration: 2 Hrs**

	Description in Detail	Weightage (%)
	<b>Practical Based on Python Programming</b>	<b>100%</b>

<b>Practicals based on following Concepts</b>
<b>Conditional Statements and loops</b>
<b>Python Data Structures and Manipulation</b> Lists, Tuples and Dictionaries, Lists – inbuilt functions, Tuples – inbuilt functions, Dictionaries – inbuilt functions, Data Structure Manipulation using loops
<b>Functions, File Management and Exception Handling</b>
<b>Using Python as an Object-Oriented Language, Pandas and NumPy</b>

**Basic Text and Reference Books:**

1. Paul A. DeBarry: Head First Python, 2010, O'Reilly Media, Inc.
2. Martin C. Brown: The Complete Reference Python, McGraw Hill
3. David M. Beazley: Python Essential Reference, Pearson Addison-Wesley Professional
4. Python Tutorial/Documentation [www.python.org](http://www.python.org) 2010
5. Allen Downey, Jeffrey Elkner, Chris Meyers , How to think like a computer scientist : learning with Python , Freely available online.2012
6. <http://docs.python.org/3/tutorial/index.html>
7. <http://interactivepython.org/courselib/static/pythonds>
8. <http://www.ibiblio.org/g2swap/byteofpython/read/>