Govardhan Institute

Python Programming

1) Introduction
2) Basic Syntax
3) Working with Variables
4) Operators in Python
5) Decision making statements in Python
6) Iteration in python
7) Numbers
8) Strings and input
9) Data structure in python
    a. List
    b. Tuple
    c. Dictionary
    d. set
10) Date and time
11) Functions, scoping and abstraction
    a. Lambda expressions
12) Modules and files
    a. Standard modules – sys
    b. Standard modules – math
    c. Standard modules – time
    d. dir function
13) Testing and Debugging
    a. Black-Box testing
    b. White-Box testing
    c. Conducting Tests
14) Exceptions and assertions
15) Multithreading
16) Networking in Python
17) Class & Objects
18) Reg expressions
19) CGI programming
20) Database access
21) XML processing
22) Sending email
23) GUI programming using Tkinter,Turtle
24) NumPy for mathematical computing

Address:U-11, Athwa Arcade, near Jain Mandir, Opp. T. & T.V. School, Athwa gate, Surat.

www.gisurat.com **77 77 95 68 77** gisumit1@gmail.com

a. Introduction to arrays and matrices
b. Indexing of arrays, data types, broadcasting of array math
c. Standard deviation, conditional probability
d. Co-relation and covariance

25) SciPy for Scientific computing
a. Introduction to Scipy and its functions
b. Building on top of Numpy, cluster, linalg, signal, optimize, integrate, subpackages
c. Scipy with Bayers theorem

26) Matploit for data visualization
a. Plotting graph and chart
b. Various aspects of line, scatter, bar, histogram, 3D
c. API of MatplotLib, SubPlots

27) Quick look at
a. **machine learning**
b. **Data Science**
c. **Pandas**
d. **Scikit**
e. **Hadoop**
f. **Apache Spark**