



www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

Python Course Details

Chapter 1: Introduction to Python

- ✓ What is Python and history of Python
- ✓ Unique features of Python
- ✓ Python-2 and Python-3 differences
- ✓ Install Python and Environment Setup
- ✓ First Python Program
- ✓ Python Identifiers, Keywords and Indentation
- ✓ Comments and document interlude in Python
- ✓ Command line arguments
- ✓ Getting User Input
- ✓ Python Data Types
- ✓ What are variables?
- ✓ Python Core objects and Functions
- ✓ Number and Maths
- ✓ Week 1 Assignments



Chapter 2: List, Ranges & Tuples in Python

- ✓ Introduction
- ✓ Lists in Python
- ✓ More About Lists
- ✓ Understanding Iterators
- ✓ Generators, Comprehensions and Lambda Expressions

“ Your Winning Chances Count is Measuring Your Skill Level ”



Kerala Branch Office

10-15/823, Ground Floor, Mudavurpara,
Vedivechancoil-Post, Trivandrum - 695 001.

TamilNadu Head Office

#131-5J, 1st Floor, Bharath Lodge Building,
Swamy Nellaiappiar High Road, SriPuram,
Tirunelveli – 627 001.





www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

- ✓ Introduction
- ✓ Generators and Yield
- ✓ Next and Ranges
- ✓ Understanding and using Ranges
- ✓ More About Ranges
- ✓ Ordered Sets with tuples

Chapter 3: Python Dictionaries and Sets

- ✓ Introduction to the section
- ✓ Python Dictionaries
- ✓ More on Dictionaries
- ✓ Sets
- ✓ Python Sets Examples

Chapter 4: Input and Output in Python

- ✓ Reading and writing text files
- ✓ writing Text Files
- ✓ Appending to Files and Challenge
- ✓ Writing Binary Files Manually
- ✓ Using Pickle to Write Binary Files

Chapter 5: Python built in function

- ✓ Python user defined functions
- ✓ Python packages functions
- ✓ Defining and calling Function
- ✓ The anonymous Functions
- ✓ Loops and statement in Python



“ Your Winning Chances Count is Measuring Your Skill Level ”



Kerala Branch Office

10-15/823, Ground Floor, Mudavurpara,
Vedivechancoil-Post, Trivandrum - 695 001.

TamilNadu Head Office

#131-5J, 1st Floor, Bharath Lodge Building,
Swamy Nellaiappan High Road, SriPuram,
Tirunelveli – 627 001.





www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

- ✓ Python Modules & Packages

Chapter 6: Python Object Oriented

- ✓ Overview of OOP
- ✓ Creating Classes and Objects
- ✓ Accessing attributes
- ✓ Built-In Class Attributes
- ✓ Destroying Objects

Chapter 7: Python Exceptions Handling

- ✓ What is Exception?
- ✓ Handling an exception
- ✓ try...except...else
- ✓ try-finally clause
- ✓ Argument of an Exception
- ✓ Python Standard Exceptions
- ✓ Raising an exception
- ✓ User-Defined Exceptions



Chapter 8: Python Regular Expressions

- ✓ What are regular expressions?
- ✓ The match Function
- ✓ The search Function
- ✓ Matching vs searching
- ✓ Search and Replace
- ✓ Extended Regular Expressions
- ✓ Wildcard

“ Your Winning Chances Count is Measuring Your Skill Level ”



Kerala Branch Office

10-15/823, Ground Floor, Mudavurpara,
Vedivechancoil-Post, Trivandrum - 695 001.

TamilNadu Head Office

#131-5J, 1st Floor, Bharath Lodge Building,
Swamy Nellaiappar High Road, SriPuram,
Tirunelveli – 627 001.





www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

Chapter 9: Python Multithreaded Programming

- ✓ What is multithreading?
- ✓ Starting a New Thread
- ✓ The Threading Module
- ✓ Synchronizing Threads
- ✓ Multithreaded Priority Queue
- ✓ Python Spreadsheet Interfaces
- ✓ Python XML interfaces

Chapter 10: Using Databases in Python

- ✓ Python MySQL Database Access
- ✓ Install the MySQL dB and other Packages
- ✓ Create Database Connection
- ✓ CREATE, INSERT, READ, UPDATE and DELETE Operation
- ✓ DML and DDL Operations with Databases
- ✓ Performing Transactions
- ✓ Handling Database Errors
- ✓ Web Scraping in Python

Chapter 11: Python For Data Analysis

Numpy:

- ✓ Introduction to numpy
- ✓ Creating arrays
- ✓ Using arrays and Scalars
- ✓ Indexing Arrays
- ✓ Array Transposition

“ Your Winning Chances Count is Measuring Your Skill Level ”



Kerala Branch Office

10-15/823, Ground Floor, Mudavurpara,
Vedivechancoil-Post, Trivandrum - 695 001.

TamilNadu Head Office

#131-5J, 1st Floor, Bharath Lodge Building,
Swamy Nellaiappar High Road, SriPuram,
Tirunelveli – 627 001.





www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

- ✓ Universal Array Function
- ✓ Array Processing
- ✓ Array Input and Output

Pandas:

- ✓ What is pandas?
- ✓ Where it is used?
- ✓ Series in pandas
- ✓ Index objects
- ✓ Reindex
- ✓ Drop Entry
- ✓ Selecting Entries
- ✓ Data Alignment
- ✓ Rank and Sort
- ✓ Summary Statics
- ✓ Missing Data
- ✓ Index Heirarchy



Matplotlib:

- ✓ Python For Data Visualization
- ✓ Welcome to the Data Visualiztion Section
- ✓ Introduction to Matplotlib

Chapter 12: Django Web Framework in Python

Introduction to Django and Full Stack Web Development

“ Your Winning Chances Count is Measuring Your Skill Level ”



Kerala Branch Office

10-15/823, Ground Floor, Mudavurpara,
Vedivechancoil-Post, Trivandrum - 695 001.

TamilNadu Head Office

#131-5J, 1st Floor, Bharath Lodge Building,
Swamy Nellaiappan High Road, SriPuram,
Tirunelveli – 627 001.

