

**SQL School**  
Quality Training Assured



**MSME**

MICRO, SMALL & MEDIUM ENTERPRISES

सूक्ष्म, लघु एवं मध्यम उद्यम

OUR STRENGTH • हमारी शक्ति

Ministry of MSME, Govt. of India



**Complete Practical, Real-time Job Oriented Training**

## Python Training

### What is Python?

Python is a programming language used by Data Analysts, Business Analysts, Data Scientists and Programmers for handling ANY type of operations with respect to data in real-world. From Data Storage to Security, Analytics and Forecasts.

### What is the role of Python in Data Analysis?

Using Python, we can perform Ch to Ch Data Analytics with ease. Very fast and easy to operate, implement. We can handle Big Data using Python Modules like Pandas, Numpy, etc..

### What is the role of Python in Python Programming?

Using Python, we can perform Application Design and Programming to implement Business Logic. Python Programming is always in demand that needs good coding skills.

### Who can join this course?

Anyone. We start the classes from scratch, right from Basics of Python to Analytics & Programming. Then proceed for Scenario based activities and job orientation with Realtime Project !

### What about the Lab? What are the System Requirements?

Window OS; 6 GB RAM; Any Processor. We shall guide you for Software Installation, Practice.

### Why to choose **SQL School** to master Python?

We are a prominent training organization with proven track record to implement start of art learning methods for last 19 years. Beside ISO Certified Company, we have a decent client base for our LIVE Instructor Led Trainings with MindTree, ADP, TechM, Infosys, L&T, HCL, Sutherland Global, IMI Mobile, ValueLabs, more .. !

### Course content for Python:

**Module 1:** Python Fundamentals, Analytics

**Module 2:** Python Programming & OOPS

**Total Duration:** 6 Weeks

**Total Price:** INR 9000

### We assure you:

- ✓ **Step-by-step Practical Trainings**
- ✓ **100% Practical, Interactive**
- ✓ **Resume Guidance, Latest FAQs**
- ✓ **End to End Project Work**

## How to join the course?

For latest schedules, Free (LIVE) Demo: pls call us or visit: [www.sqlschool.com](http://www.sqlschool.com)

👉 Master Python from our SQL School Today !

👉 Reach us for free demo. Call us on +91 9666440801

## Module 1: Python Fundamentals, Analytics

<b>Ch 1: Python Introduction</b> <ul style="list-style-type: none"><li>✓ Python in Data Analysis</li><li>✓ History of Python</li><li>✓ Python Versions</li><li>✓ Python Implementations</li><li>✓ Python Installations</li><li>✓ Python IDE &amp; Usage</li><li>✓ Print function</li></ul>	<b>Ch 2: Python Basics</b> <ul style="list-style-type: none"><li>✓ Basic Operations in Python</li><li>✓ Python Scripts</li><li>✓ Single, Multiline Statements</li><li>✓ Single, Multi Line Comments</li><li>✓ Python : Internal Architecture</li><li>✓ Compiler Versus Interpreter</li><li>✓ Id() function</li></ul>	<b>Ch 3: Data Types &amp; Type Casting</b> <ul style="list-style-type: none"><li>✓ Type()</li><li>✓ Numeric Data Types</li><li>✓ Text Data Types</li><li>✓ Boolean, Binary Types</li><li>✓ Sequence Types: List, Tuple</li><li>✓ Sequence Types: Sets, Dicts</li><li>✓ Multi Assignments &amp; Casting</li></ul>
<b>Ch 4: Python Operators</b> <ul style="list-style-type: none"><li>✓ Arithmetic Operators</li><li>✓ Assignment Operators</li><li>✓ Comparison Operators</li><li>✓ Logical, Identity Operators</li><li>✓ Membership Operators</li><li>✓ Bitwise Operators</li><li>✓ Operator Precedence</li></ul>	<b>Ch 5: Sequences &amp; Strings</b> <ul style="list-style-type: none"><li>✓ Introduction</li><li>✓ Ordering and Indexing concepts</li><li>✓ Strings introduction</li><li>✓ Slicing : strings</li><li>✓ Operators on strings</li><li>✓ Methods on strings</li><li>✓ Escape sequences</li></ul>	<b>Ch 6: Lists &amp; Tuples</b> <ul style="list-style-type: none"><li>✓ Lists: introduction</li><li>✓ Slicing : Lists</li><li>✓ Operators on strings</li><li>✓ Methods on strings</li><li>✓ tuples: introduction</li><li>✓ Slicing : tuples</li><li>✓ Operators on tuples</li><li>✓ Methods on tuples</li></ul>
<b>Ch 7: Sets, Dictionaries</b> <ul style="list-style-type: none"><li>✓ Sets: introduction</li><li>✓ Operations on sets</li><li>✓ Methods on sets</li><li>✓ Functions on sets</li><li>✓ Dict : introduction</li><li>✓ Operations on dict</li><li>✓ Methods on dict</li></ul>	<ul style="list-style-type: none"><li>✓ <b>Ch 8 If Statement , If-elif-else</b></li><li>✓ If .elif.. Else Statement</li><li>✓ Using Print with if loop</li><li>✓ Short Hand If</li><li>✓ Logical Operators in If loop</li><li>✓ Nested If loop</li><li>✓ Examples</li></ul>	<b>Ch 9: Python Loops</b> <ul style="list-style-type: none"><li>✓ Python Loop &amp; Realtime Use</li><li>✓ While Loop</li><li>✓ Using Print with While()</li><li>✓ Iterations &amp; Conditions</li><li>✓ Exit Conditions</li><li>✓ For Loop</li><li>✓ Using Python Constructors</li></ul>
<b>Ch 10: Control Flow Statements</b> <ul style="list-style-type: none"><li>✓ Break and Continue Statement</li></ul>	<b>Ch 11: Functions -1</b> Python Functions & Usage <ul style="list-style-type: none"><li>✓ Function Parameters</li></ul>	<b>Ch 12: Functions -2 &amp; Lambda Function</b> <ul style="list-style-type: none"><li>✓ Python Lambda Functions</li></ul>

<ul style="list-style-type: none"> <li>✓ Break, Continue &amp; Range</li> <li>✓ enumerate ()</li> <li>✓ zip(), unzipping</li> <li>✓ assert statement ,usage</li> </ul>	<ul style="list-style-type: none"> <li>✓ Arguments, **kwargs</li> <li>✓ Types of arguments</li> <li>✓ Default ,positional arguments</li> <li>✓ Keyword , arbitrary arguments</li> <li>✓ Return keyword</li> <li>✓ Recursion ()</li> </ul>	<ul style="list-style-type: none"> <li>✓ Anonymous Functions</li> <li>✓ Examples</li> <li>✓ Built in functions</li> <li>✓ Filter()</li> <li>✓ Map()</li> <li>✓ Reduce()</li> </ul>
<p><b>Ch 13: Modules &amp; Packages</b></p> <ul style="list-style-type: none"> <li>✓ Python Modules</li> <li>✓ Variables in Modules</li> <li>✓ Built In Modules</li> <li>✓ datetime module in Python</li> <li>✓ Date Objections Creation</li> <li>✓ strftime Method &amp; Usage</li> <li>✓ imports &amp; datetime.now()</li> <li>✓ Package in Python</li> <li>✓ Creating a package</li> <li>✓ Package Imports, Modules</li> <li>✓ Popular Packages in Python</li> </ul>	<p><b>Ch 14: Exception Handling</b></p> <ul style="list-style-type: none"> <li>✓ Try &amp; except importance and usage</li> <li>✓ Using else with try and except</li> <li>✓ Working with finally block</li> <li>✓ Diff types of exceptions occur</li> <li>✓ Creating a exception class</li> </ul>	<p><b>Ch 15: File Handling</b></p> <ul style="list-style-type: none"> <li>✓ File Handling, Activities</li> <li>✓ r, a, w, x modes</li> <li>✓ t, b Operations</li> <li>✓ Read, Write, Close Files</li> <li>✓ Appending, Overwriting</li> <li>✓ import os</li> <li>✓ f.open, f.write</li> <li>✓ f.read, f.close etc.</li> </ul>
<p><b>Ch 16: Regular Expressions</b></p> <ul style="list-style-type: none"> <li>✓ importance of regex</li> <li>✓ creating a pattern</li> <li>✓ quantifiers and special sequences</li> <li>✓ data validation</li> <li>✓ functions of regex : match(),search(),findall ()</li> <li>✓ sub(),split(),compile()</li> </ul>	<p><b>Ch 17: Numpy</b></p> <ul style="list-style-type: none"> <li>✓ introduction to numpy</li> <li>✓ Creating a array</li> <li>✓ Array properties</li> <li>✓ Multi dimensional arrays</li> <li>✓ Slicing : numpy arrays</li> <li>✓ Stats on array</li> <li>✓ Operations on array</li> </ul>	<p><b>Ch 18: Matplotlib</b></p> <ul style="list-style-type: none"> <li>✓ Introduction: Data Visualization</li> <li>✓ Types of plots</li> <li>✓ Simple plot : single and multiple lines</li> <li>✓ Subplots</li> <li>✓ Bar graphs , Histograms</li> <li>✓ Pie chart</li> <li>✓ Scatter Plot</li> </ul>
<p><b>Ch 19: Pandas – 1</b></p> <ul style="list-style-type: none"> <li>✓ Introduction to Pandas</li> <li>✓ Types of data structures</li> <li>✓ Creating a DataFrame using diff methods</li> <li>✓ Indexing and slicing of df</li> <li>✓ Loc and iloc concepts</li> <li>✓ Sorting DataFrame</li> <li>✓ Manipulating DataFrame</li> <li>✓ Removing the Duplicates</li> </ul>	<p><b>Ch 19: Pandas – 2</b></p> <ul style="list-style-type: none"> <li>✓ Data filtering and conditional changes</li> <li>✓ Handling the missing data</li> <li>✓ Exporting a dataframe as excel/csv file</li> <li>✓ Plotting the DataFrame using matplotlib</li> <li>✓ Good &amp; Bad Correlation</li> </ul>	<p><b>Ch 21: SQL – DB &amp; Python API</b></p> <ul style="list-style-type: none"> <li>✓ DB- API</li> <li>✓ Libraries available for diff DBS</li> <li>✓ Establishing a connection with DB</li> <li>✓ Steps</li> <li>✓ Executing SQL queries</li> <li>✓ Integrating pandas and numpy</li> <li>✓ Plotting the df</li> </ul>

**Project : Realtime Case Study**

## Module 2: Python Programming

<p><b>Ch 22: Python Class &amp; Objects</b></p> <ul style="list-style-type: none"> <li>✓ Introduction to OOP</li> <li>✓ Classes &amp; Objects</li> <li>✓ Creating classes</li> <li>✓ Self parameters</li> <li>✓ <code>__init__()</code></li> <li>✓ Constructors</li> <li>✓ Types Variables</li> </ul>	<p><b>Ch 23: Methods &amp; Types</b></p> <ul style="list-style-type: none"> <li>✓ Types of methods</li> <li>✓ Parameters of methods</li> <li>✓ Static, class, instance methods</li> <li>✓ Differences between methods</li> <li>✓ Oop concepts</li> </ul>	<p><b>Ch 24: Oop Concepts- Inheritance -1</b></p> <ul style="list-style-type: none"> <li>✓ Introduction: inheritance</li> <li>✓ Single , multiple, multi level inheritance</li> <li>✓ Hierarchical , Hybrid inheritance</li> <li>✓ Characteristics</li> <li>✓ Declaring Private members</li> </ul>
<p><b>Ch 25: Oop Concepts- inheritance -2</b></p> <ul style="list-style-type: none"> <li>✓ Characteristics</li> <li>✓ Method Overriding</li> <li>✓ <code>Super()</code></li> <li>✓ Advantages</li> <li>✓ Examples</li> <li>✓ Usecases</li> </ul>	<p><b>Ch 26: Oop Concepts- Abstraction &amp; Polymorphism</b></p> <ul style="list-style-type: none"> <li>✓ Introduction</li> <li>✓ Abstract class</li> <li>✓ Abstract method</li> <li>✓ ABC class</li> <li>✓ Polymorphism</li> <li>✓ Polymorphism at class level</li> <li>✓ Polymorphism with inheritance</li> </ul>	<p><b>Ch 27: Oop Concepts- Encapsulation &amp; access Specifiers</b></p> <ul style="list-style-type: none"> <li>✓ Introduction : Encapsulation</li> <li>✓ Types of hiding data</li> <li>✓ Types of access specifiers</li> <li>✓ Working with diff access specifiers</li> <li>✓ usecases</li> </ul>
<p><b>Ch 28: Frameworks -1</b></p> <ul style="list-style-type: none"> <li>✓ Tkinter GUI Program</li> <li>✓ Components &amp; Events</li> <li>✓ Adding Controls inTkinter</li> <li>✓ Entry, Text Widgets</li> <li>✓ Radio &amp; Check Buttons</li> <li>✓ Tkinter Forms in Realtime</li> <li>✓ List Boxes, Menu, ComboBox</li> <li>✓ Mainloop () &amp; Functions</li> </ul>	<p><b>Ch 29 : Frameworks -2</b></p> <ul style="list-style-type: none"> <li>✓ Python Web Frameworks</li> <li>✓ Python Gil &amp; Programming</li> <li>✓ Django : Advantages</li> <li>✓ Web Framework</li> <li>✓ MVC and MVT - Django</li> <li>✓ Web Pages using python</li> <li>✓ HTML5, CSS3 usage</li> <li>✓ PYTHON Bottle &amp; Pyramid</li> </ul>	<p><b>Ch 30: Introduction to IoT</b></p> <ul style="list-style-type: none"> <li>✓ Introduction IoT</li> <li>✓ Communication Protocols</li> <li>✓ Roles of Python in IoT</li> <li>✓ Advanced Devices in IOT</li> <li>✓ Python Multi-Threading</li> <li>✓ Thread Synchronization</li> <li>✓ Multiprocessing</li> </ul>
<p><b>Project : Realtime Case Study</b></p>		
<p>Reach Us Now, for Free demo ! Reach Us : +91 995144 0801, +91 966644 0801</p>	<p style="text-align: center;"><a href="mailto:contact@sqlschool.com">contact@sqlschool.com</a> Next Schedules: <a href="http://www.sqlschool.com/Register">www.sqlschool.com/Register</a></p>	

👉 Ensure on time practice throughout the course, our support for your learning and job search – always !

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👉 *For career guidance, pls reach our chief trainer and mentor: Mr. Sai Phanindra Tholeti on +91 9030040801 (Call or WhatsApp).*

*Best Regards,*  
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