

# IT Programming Courses Syllabus



## Comprehensive Hands On Training in Programming

*A Practical Approach to Learning Modern Programming and IT Skills*

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### About Us

SciFixia is a Pune-based learning hub offering **practical, industry-oriented training in Life Sciences and Information Technology**. We focus on **hands-on, on-job learning** using real data, real tools, and real-world problem solving.

Our certified programs help learners build strong **technical skills, analytical thinking, and industry readiness** through interactive and application-driven training.

At **SciFixia**, we are committed to making quality education accessible and preparing future-ready professionals for today's evolving industries.

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**Duration - 1<sup>st</sup> April – 30<sup>th</sup> April 2026 ( 1 Month)**

**Days - Monday - Friday**

**Timing - 8:30 pm to 9:30 pm**

**Mode - Online**

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## Why Choose SciFixia?

-  Real-time practical training
-  Hands-on coding experience
-  Industry-relevant IT skills
-  Online expert-led sessions
-  Certification with career-ready skills

## Course Details

### Basic Python Programming (1 Months)

- **Python Fundamentals – Variables, data types, operators, and basic program structure.**
- **Programming Concepts – Conditional statements, loops, functions, and modules.**
- **Python Skills – File handling, exception handling, libraries, and basic project development.**

**Course Price: 3000/-**

Topic	What You Will Learn
<b>Introduction to Python</b>	Python installation, IDE setup, running first Python program
<b>Variables, Data Types</b>	numbers, strings, lists, tuples, dictionaries
<b>Operators</b>	arithmetic, logical, comparison operators
<b>Conditional Statements</b>	if, if-else, nested if conditions

<b>Topic</b>	<b>What You Will Learn</b>
<b>Loops</b>	for, while, do-while loops
<b>Lists and Tuples</b>	list operations, indexing, slicing
<b>Dictionaries and Sets</b>	key-value storage, dictionary methods
<b>Functions</b>	function definition, parameters, return values
<b>Modules and Packages</b>	importing modules, creating custom modules
<b>Exception Handling</b>	try, except, finally blocks
<b>File Handling</b>	reading and writing files in Python
<b>Object-Oriented Programming</b>	classes, objects, constructors
<b>Python Libraries</b>	Introduction to NumPy and Pandas basics
<b>Data Handling</b>	Working with simple datasets
<b>Mini Project</b>	Build a small Python-based project

## **Outcomes of this Course**

- **Understand core Python programming concepts**
- **Write and execute Python scripts for automation and data tasks**
- **Work with Python libraries for data handling**
- **Develop small real-world Python projects**