



Basic Python Syllabus

1. Introduction to Python
 - History and Features of Python
 - Setting up Python Environment
 - Writing and Running Python Programs
2. Python Basics
 - Variables and Data Types
 - Operators (Arithmetic, Comparison, Logical)
 - Input and Output Functions
3. Control Structures
 - Conditional Statements (if, elif, else)
 - Loops (for, while)
 - Loop Control (break, continue, pass)
4. Data Structures
 - Lists, Tuples, Sets, Dictionaries
 - Indexing and Slicing
 - Built-in Functions
5. Functions and Modules
 - Defining Functions
 - Arguments and Return Values
 - Importing Modules and Libraries
6. File Handling
 - Reading and Writing Files
 - Working with CSV and Text Files
7. Error Handling
 - Exceptions and Try/Except
 - Common Errors in Python
8. Object-Oriented Programming
 - Classes and Objects
 - Methods and Inheritance
9. Python Libraries Overview
 - Numpy, Pandas, Matplotlib (Basics)
10. Mini Project



- Real-world small project using Python basics

