

# Python Syllabus

## 1. Introduction to Python

- History and Features
- Installing Python and Setting Up Environment
- Python IDEs

## 2. Python Basics

- Variables, Data Types, and Operators
- Conditional Statements
- Loops

## 3. Functions

- Defining Functions
- Lambda Functions
- Modules and Packages

## 4. Object-Oriented Programming

- Classes and Objects
- Inheritance and Polymorphism

## 5. Data Handling

- File Handling
- Exception Handling

## 6. Advanced Topics

- Python Libraries: NumPy, Pandas, Matplotlib
- Web Scraping with BeautifulSoup
- Introduction to Django/Flask Frameworks