

Python Programming Fundamentals

Course Code: PY101
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Course Description

A comprehensive introduction to Python programming covering basic syntax, data structures, functions, and object-oriented programming.

Learning Objectives

- Understand Python syntax
- Work with data structures
- Write functions
- Understand OOP concepts
- Handle errors and exceptions

Course Outline

Week	Lesson Title	Duration	Objectives
1	Introduction to Python	90 min	Install Python,Understand basic syntax,Use variables,Work with data types
2	Data Structures	120 min	Understand lists and tuples,Work with dictionaries,Work with sets,Work with tuples
3	Functions and Modules	90 min	Define functions,Use parameters,Return values,Creating modules,Importing modules