**1. Introduction to Python**

* **Objective**: Explain what Python is, its uses, and why it's a good choice for beginners.
* **Content**:
  + What is Python?
  + Python versions (Python 2 vs Python 3)
  + How Python is used (web development, data science, automation, etc.)
  + Installing Python (brief guide on installation)
  + Running Python code (IDLE, terminal, VS Code, etc.)

**2. Python Syntax and Basics**

* **Objective**: Introduce Python syntax and basic commands.
* **Content**:
  + Writing and running your first Python program (print("Hello, World!"))
  + Python syntax rules (indentation, comments, etc.)
  + Variables and types (numbers, strings, booleans)
  + Simple input and output functions (input() and print())

**3. Data Types and Variables**

* **Objective**: Dive deeper into Python's built-in data types.
* **Content**:
  + Understanding variables
  + Primitive data types:
    - Integer (int)
    - Floating-point (float)
    - String (str)
    - Boolean (bool)
  + Type casting (e.g., int() to float())
  + Common string operations (concatenation, slicing)

**4. Operators in Python**

* **Objective**: Cover different types of operators used in Python.
* **Content**:
  + Arithmetic operators (+, -, \*, /, //, %, \*\*)
  + Comparison operators (==, !=, <, >, <=, >=)
  + Logical operators (and, or, not)
  + Assignment operators (=, +=, -=, etc.)
  + Special operators: membership (in), identity (is)

**5. Control Flow (if, elif, else)**

* **Objective**: Teach conditional statements.
* **Content**:
  + if statement
  + elif and else
  + Nested conditions
  + Examples of real-world decision-making scenarios

**6. Loops in Python**

* **Objective**: Introduce loops for repetitive tasks.
* **Content**:
  + while loop
  + for loop
  + Loop control statements (break, continue, pass)

**7. Functions in Python**

* **Objective**: Explain functions and their importance.
* **Content**:
  + Defining a function (def)
  + Function parameters and return values
  + \*args and \*\*kwargs
  + Scope of variables inside functions (local vs global)

**8. Lists, Tuples, and Dictionaries**

* **Objective**: Introduce data structures used to store collections.
* **Content**:
  + Lists: creating, accessing, and modifying
  + Tuples: immutable collections
  + Dictionaries: key-value pairs
  + Basic operations on these data structures (adding, deleting, searching)

**9. Working with Files**

* **Objective**: Teach file handling (read, write, and append).
* **Content**:
  + Opening and closing files
  + Reading from a file (read(), readlines())
  + Writing to a file (write(), writelines())
  + Working with file paths

**10. Error Handling**

* **Objective**: Cover the basics of handling exceptions.
* **Content**:
  + try, except, finally
  + Raising exceptions
  + Example of handling different types of exceptions (ValueError, TypeError)