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💻 Python Syllabus (Hinglish Version)

🧩 Module 1: Introduction to Python

- Python kya hai aur kyu popular hai
- Python install karna (Windows/Mac)
- IDE setup (VS Code, PyCharm, Jupyter Notebook)
- Basic syntax aur "Hello World" program
- Comments, indentation, aur variables

🔢 Module 2: Data Types & Variables

- Numbers (int, float, complex)
- Strings (str) — slicing, formatting, functions
- Boolean (True/False)
- Type conversion
- Input/output statements

📐 Module 3: Operators

- Arithmetic operators (+, -, *, /, %, **)
- Comparison operators (==, !=, >, <)
- Logical operators (and, or, not)
- Assignment operators (=, +=, -=)
- Bitwise operators basics

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🔁 Module 4: Conditional Statements & Loops

- `if`, `elif`, `else` statements
- Nested conditions
- `for` loop, `while` loop
- `break`, `continue`, `pass`
- Loop examples (tables, patterns, etc.)

📦 Module 5: Data Structures

🟢 Lists

- Creating, accessing, modifying lists
- List methods (append, insert, remove, sort)

🟣 Tuples

- Tuple creation, immutability, slicing

🔵 Sets

- Unique elements, set operations (union, intersection)

🟠 Dictionaries

- Key-value pairs
- Accessing & updating dictionary data

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🧮 Module 6: Functions

- Defining & calling functions
- Arguments & return values
- Default & keyword arguments
- `lambda` functions
- Scope (local vs global variables)

📤 Module 7: File Handling

- Open, read, write files
- Text & CSV file handling
- Exception handling while file operations

⚙️ Module 8: Exception Handling

- Errors vs Exceptions
- Try, Except, Else, Finally blocks
- Custom exceptions

🧠 Module 9: Object-Oriented Programming (OOPs)

- Class & Objects
- Constructor (`__init__`)

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- Methods & attributes
- Inheritance
- Polymorphism & Encapsulation

🔍 Module 10: Modules & Packages

- Importing built-in modules (`math`, `random`, `datetime`)
- Creating your own module
- Using `pip` to install external libraries

🌐 Module 11: Python with Databases

- Introduction to SQLite / MySQL
- CRUD operations (Create, Read, Update, Delete)
- Database connectivity using `sqlite3` / `mysql.connector`

📊 Module 12: Data Science Basics (Optional Advanced)

- Introduction to **NumPy**, **Pandas**, **Matplotlib**
- Data cleaning & visualization
- Simple data analysis project

🕸 Module 13: Web Development with Python (Optional)

- Flask / Django basics

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- Creating a simple web app
- Templates (HTML, CSS integration)

🤖 Bonus Topics

- Python with AI tools (ChatGPT API, etc.)
- Automation using `os, shutil, time`
- Introduction to APIs & JSON
- Python for Excel (using `openpyxl`)

🏁 Final Projects (Choose Any 1-2)

- To-Do List App
- Calculator / Guess the Number Game
- Weather App using API
- Data Dashboard using Pandas + Matplotlib
- Basic Blog using Flask