

Life Changing Course in Python Programming with Hands on

- **Course Name:** Python Programming
- **Course Code:** IT2_P2
- **Instructor:** Chaitanya Patil ([Instructor Profile](#))
- **For Whom:** S/W Engineers, High School & College Goers
- **Frequency:** 2 Sessions per week. 1 Session = 2 Hours.
- **Fees:** 149 US\$ (Get Discount for Referrals and Group Joining)
- **Duration:** 30-32 Hours Approx. (8 Weeks Approx.)
- **Note:** First Session is completely FREE and open to all. Make Payment only after 1st FREE session and if interested to continue.
- Reach us for more details.
- **Note:** Reach us for Advanced Python Programming, Python for Data Science, Vedic Speed Mathematics (FREE) and all other IT Courses.
- **More Info:** www.Speed16.com/training
- **Contact:** info@speed16.com **OR** +91-97640-58-654 **OR** Direct Whatsapp (<https://wa.me/919764058654/?text=Hi>) **OR** Direct Telegram (<https://t.me/CP512>)

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Syllabus in Brief:

Sr.	Units
1	Introduction
2	Data Types
3	Basic Operators
4	Decision Making
5	Loops
6	Lists
7	Tuples
8	Sets
9	Dictionary
10	Numbers
11	Strings
12	Functions
13	Date/Time/Calendar Module
14	File Handling
15	Modules & Packages
16	Exception Handling
17	Object Oriented Programming
18	Database Connectivity
19	Python Coding Guidelines
20	Mini Projects
	Total

Syllabus in Detail:

Note: After each session, students need to complete some assignments before attending next session. Assignments are given at the end of each topic as PP (Practice Programs). Learners need to upload assignments on Google Drive.

Unit 1: Introduction	
1	What is Python?
2	Python History
3	Features of Python
4	Python Ecosystem
5	Install Python in Windows/Linux
6	Install Eclipse in Windows/Linux
7	Python Shell
8	Hello World Program in Python
9	Variables; Multiple Assignments
10	Python Identifiers

11	Reserved Words (Keywords)
12	Some Simple Python Programs
13	Quotation in Python (‘ ’ “ ” “”” “”””)
14	Comments
15	Blank Lines in Python
16	Multiple Statements on a Single Line
18	Waiting for User (input function)
19	Some Functions: print, input, id, type, len, int, float
PP: Practice Programs (Write Programs with Comments)	
PP1	Write a Hello World Program
PP2	Read Information (Name, Age, Address, Salary etc.) from user and display them.
PP3	Read two names, two integers & three float numbers from user and display them.
PP4	Write a program that asks the user for their name and then prints welcome message. Expected Input & Output: Enter Your Name: Ganesh Hi Ganesh, Welcome to Speed16 Academy
PP5	Write a program to add two numbers.
PP6	Write a program to add, subtract, multiply and divide two numbers.
PP7	Calculate area of Rectangle (area = b*h)
PP8	Calculate area of a circle (area = 3.14 * r * r)
PP9	Calculate Simple Interest (SI = p * n * r / 100)
PP10	A customer is offered 16% discount on the printed price of a laptop. The customer has to pay 10% GST (Tax) on the remaining amount. Write a program to calculate the amount to be paid by the customer.
PP11	Ask user to read a word/line. Calculate its length (Hint: Use len function)
PP12	Read a number (say n) from user. Print ‘n’ number of hashes (#) between * and *.Examples: For n=3; Output is: *###* For n=5; Output is: *#####*
PP13	Display float number up to 3 decimal places using print() Hint: print('% .3f % a)

2: Data Types	
1	Numbers (int, float) (complex, bin, oct, hex)
2	Strings
3	Lists
4	Tuples
5	Dictionary
6	Sets
7	Data Type Conversion (Implicit and Explicit)
8	Format Specifiers and Escape Sequences

9	Some Functions: sum, len, sqrt, dir, dir(math), dir(str), dir(list), dir(tuple), dir(dict), dir(set), __sizeof__(), min, max,
PP: Practice Programs (Write Programs with Comments)	
PP1	Create a List of 10 elements with different data types. Print it. Find its Length. Convert it to Tuple and Print it. Print its first, 3 rd & 5 th element. Print Data Type of 6 th Element.
PP2	Create a Tuple of 10 elements with different data types. Print it. Find its Length. Convert it to Set and Print it.
PP3	Write a program to delete an element from a tuple.
PP4	Create a Set of 10 elements with different data types and with some duplicate values. Print it. Find its Length. Convert it to List and Tuple. Print them.
PP5	Create a Tuple of 10 elements with integer and float data types. Print it. Find its Length. Find sum of all elements. Also find smaller and larger element. (Hint: use sum, min & max).
PP6	Create a dictionary. Print it. Print only Keys. Print only Values. Print its length. Update values. Clear all dictionary.
PP7	Create a dictionary. Print it. Add couple of Keys to it. Delete Some Keys. Print it.
PP8	Create a dictionary. Find sum of all the items in a dictionary. (Hint: sum(a.values()))
PP9	Create two Strings. Print them. Concatenate them. Find Length. Print first string 3 times.
PP10	Create two Strings. Perform various slicing operations on them.

Mini Projects (Any 2)	
1	Calculator Project
2	Number Guessing Game in Python
3	YouTube video downloader
4	Random Password Generator
5	Music Player

NOTE: All registered members are going to get Complete Syllabus through email.

Contact:

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