

Python Programming

(Commencing from Sunday, 05th March 2023 Via Hybrid Mode (Online/Offline)
Timing: 10-1 PM (Only on Sundays) Duration: 8 weeks)

This course introduces the python concepts from basics to advance. Python programming is used in various business sectors, such as programming, web development, machine learning, and data science. The course tries to equip the students/working professionals upgrade their skill sets in different fields like Machine Learning, Data Science, Web Development etc. This will be an 8-week course with emphasis on the hands-on sessions.

1. Basics of Python Programming <ul style="list-style-type: none">• History• Features• Setting up path• Working with Python• Basic Syntax• Variables• Data Types• Operator• Input Output Functions	2. Dictionaries <ul style="list-style-type: none">• Introduction Accessing values in dictionaries• Working with dictionaries• Properties• Functions
3. Installation of PyCharm & Introduction to Google Colab for running Python Script	4. Functions <ul style="list-style-type: none">• Defining a function• Calling a function• Types of functions• Function Arguments• Anonymous functions• Global and local variables
5. Conditional Statements <ul style="list-style-type: none">• If• If- else• Nested if-else	6. Modules <ul style="list-style-type: none">• Importing module• Math module• Random module• Packages• Composition
7. Looping <ul style="list-style-type: none">• For• While• Nested loops	8. Exception Handling & File Operations <ul style="list-style-type: none">• Exception• Exception Handling• Except clause• Try? finally clause• User Defined Exceptions• Read Files• Write/Create Files• Delete Files

9. Control Statements <ul style="list-style-type: none"> • Break • Continue • Pass 	10.OOPs concept <ul style="list-style-type: none"> • Class and object • Attributes • Inheritance • Overloading • Overriding • Data hiding
11.String Manipulation <ul style="list-style-type: none"> • Accessing Strings • Basic Operations • String slices • Function and Methods 	12.Regular expressions <ul style="list-style-type: none"> • Match function • Search function • Matching VS Searching • Modifiers • Patterns
12.Lists <ul style="list-style-type: none"> • Introduction • Accessing list • Operations • Working with lists • Function and Methods 	13.Machine Learning Libraries <ul style="list-style-type: none"> • NumPy • Pandas • SciPy • Scikit-learn • Matplotlib
14. Tuple <ul style="list-style-type: none"> • Introduction • Accessing tuples • Operations • Working • Functions and Methods 	15.Matplotlib <ul style="list-style-type: none"> • Introduction • Pyplot • Plotting • Line Chart • Scatter Chart • Bar Chart • Pie Charts

Course Fee: Rs.10,000/-

25% discount for IETE Members & 50% for Students/Teaching Staffs

Fee Excluding of GST (18%) as per Govt. norms

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