





Google Developers
Authorized Training Partner

The class is aimed at beginners who want to learn the basics of Python programming with reference to industry standards. At the end of the class, students are able to create programs with Python using various IDEs they have learned, such as Visual Studio Code, Jupyter Notebook, and Google Colaboratory.

Materials studied:

- Get acquainted with Python: Introduction to Python from development, release version, to creating your first code. (4 hours 5 minutes) Interacting with
- Data: Explains how to interact with a wide variety of data using the Python language, from its introduction to its operation. (5 hours 25 minutes) Expressions: Explain the concept of expressions and their application to the Python language. (2 hours) - Sequential Actions: Explain the concept of sequential actions and their application to the Python language. (1 hour 15 minutes) Control Flow: Describes how to control flows using branching and looping and controlling errors in Python. (3 hours 20 minutes) Arrays and Their Processing: Explain the concept of arrays in programming and apply them to the Python language. (2 hours 55 minutes) Matrix: Explain the concept of matrices in programming and apply them into the Python language. (1 hour 45 minutes) Subprograms: Describe how to effectively build a program by dividing it into functions and procedures. (2 hours 35 minutes) Object-Oriented Programming (OOP): Describes object-oriented programming in Python, such as objects, classes, methods, attributes, and inheritance. This material is optional. (2 hours 45 minutes) Style Guide in Python: Explains the style guide in Python, PEP8, code formatting, merge statements, and naming principles. (2 hours) Unit Testing: Understand the automatic program testing techniques in Python with unit testing and examples of its implementation. (1 hour 3 minutes) Popular Libraries in Python: Learn about popular libraries in Python which include text processing, math, parser, data processing, file management, web scraping, machine learning, and web development. (1 hour 35 minutes)



Learning evaluation:

- Final Class Exam

The total hours required to complete this class is 35 hours.