



ĐẠI HỌC ĐÀ NẴNG
TRƯỜNG ĐẠI HỌC CÔNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG VIỆT - HÀN
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Python Programming

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About Authors



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→ Study time:

- ◆ Lectures: 2 teaching period for 50 minutes per week
- ◆ Practical tutorials: 2 teaching period for 50 minutes per week

→ Assessment:

- ◆ Mid-term exam in practice (8th week)
- ◆ Final exam in practice

Chapter 1: Introduction to Python and Jupyter Notebook

Chapter 2: Python Basics

Chapter 3: Object-Oriented Programming in Python

Chapter 4: Introduction to Python Libraries

Chapter 5: Numeric Computing with Numpy

Chapter 6: Data Manipulation with Pandas

Chapter 7: Data Visualization with Matplotlib

Course Objectives



- Obtain knowledge and understanding of the fundamentals of writing computer programs in Python.
- Obtain knowledge and understanding of the use of several Python libraries in Data Science and AI.
- Implement the fundamental knowledge of Python programming and relevant libraries for Data Science and AI to solve the real world problems.

→ Slides

→ Practice material

→ Links:

◆ <https://www.codecademy.com/learn/learn-python-3>

◆ <https://www.w3schools.com/python/>

◆ <https://realpython.com/>

→ Books:

◆ José Unpingco, Python Programming for Data Analysis, Springer 2021.

◆ HUNT, John. A beginners guide to Python 3 programming, Springer 2019.

◆ HUNT, John. Advanced Guide to Python 3 Programming, Springer, 2019.

◆ Jake VanderPlas, Python Data Science Handbook, O'reilly, 2017.

◆ Wes McKinney, Python for Data Analysis, 2018