

COURSE DETAIL

PYTHON FOR DATA ANALYSIS AND VISUALIZATION

Country

Germany

Host Institution

Technical University Berlin

Program(s)

Technical University Summer

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

52

UCEAP Course Suffix**UCEAP Official Title**

PYTHON FOR DATA ANALYSIS AND VISUALIZATION

UCEAP Transcript Title

PYTHON DATA VISUAL

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

In this course, the fundamentals of Python are covered, with a special focus on the skills necessary for in-depth data analyses and data visualization. These two skills are fundamental in a wide range of disciplines, including but not limited to STEM (Sciences, Technology, Engineering and Mathematics) and Humanities fields of study. This course will cover the following: data types and compound data structures, conditional statements and loops, Python functions, importing, exporting and analyzing different types of data using pandas, visualizing data using Matplotlib and Seaborn, and developing interactive plots with Plotly. At the end of the two weeks course, students will work and present a final personal data analytics and visualization project.

Language(s) of Instruction

English

Host Institution Course Number

Host Institution Course Title

PYTHON FOR DATA ANALYSIS AND VISUALIZATION

Host Institution Course Details

<https://www.tu.berlin/en/international/summer-school/summer-school/summer-schoo...>

Host Institution Campus

TUBS

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

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