DAAD Deutscher Akademischer Austauschdienst
German Academic Exchange Service

INTERNATIONAL PROGRAMMES

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Language course/short course

Python for Data Analysis and Visualisation

Technische Universität Berlin • Berlin

Overview

Course location	Berlin
Teaching language	• English
Language level of course	• English: B2
Date(s)	• 1 July - 12 July 2024 (Registration deadline of course provider: 3 June 2024)
Information on dates, prices and mode of study	Course fees are as follows: • **Student: 1,050 EUR** • **Working professional/Non-student: 1,250 EUR** Please note that students will be required to upload proof of their student status (student card/enrolment information) during the registration process.
Target group	This course can be useful for all students and working professionals, but especially those in STEM (Sciences, Technology, Engineering and Mathematics) fields and other disciplines that have a data analysis component (e.g. humanities).
Description/content	According to the 2022 annual Institute of Electrical and Electronics Engineers (IEEE) Spectrum survey of the top programming languages (source: https://spectrum.ieee.org/top-programming-languages-2022/ieee-spectrums-top-programming-languages-2022), Python continues to be the most popular programming language in job listings. In this course, the fundamentals of Python are covered, with a special focus on the skills necessary for in-depth data analyses and data visualisation. These two skills are fundamental in a wide range of disciplines, including but not limited to the STEM (sciences, technology, engineering and mathematics) and humanities fields of study. In this course, we will cover the following: 1. data types and compound data structures 2. conditional statements and loops 3. Python functions 4. importing, exporting and analysing different types of data using pandas 5. visualising data using Matplotlib and Seaborn 6. bonus: developing interactive plots with Plotly At the end of the two-week course, students will engage in a final personal data analytics and visualisation project, which they will work on and present.

Course details

Recognised language exams offered (e.g. DSH, TestDaF, TOEFL)	No
ECTS points (max.)	3

Costs / Funding

Dates and costs	• 1 July - 12 July 2024 (Registration deadline of course provider: 3 June 2024), **costs: EUR 1,050**
This price includes	• Course fees • Accompanying programme
Information on dates, prices and mode of study	Course fees are as follows: • **Student: 1,050 EUR** • **Working professional/Non-student: 1,250 EUR** Please note that students will be required to upload proof of their student status (student card/enrolment information) during the registration process.

Requirements / Registration

Teaching language	• English
Language level of course	• English: B2
Language requirements	Participants of the TU Berlin Summer School must meet the following requirement: level B2 English or equivalent
Submit application to	Please apply via our application portal.

Services

Is accommodation organised?	Accommodation is arranged by the organiser.
Type of accommodation	Hotel room (double occupancy)

Is a social and leisure programme offered?	Yes
Description of social and leisure programme	Cultural programme sessions during the week after course hours (museum visits, guided walking tours, minigolf, lake excursions, etc.) and at the weekend (trips to other cities, such as Dresden, Potsdam or Leipzig)
Free internet access	Yes
Support in visa matters	Yes
Pick-up service from train station/airport	No

Contact

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🌐 Course website: https://www.tu.berlin/international/summer-school/summer-school/summer-school-on-campus/python-for-data-analysis-and-visualization

f https://www.facebook.com/TUBerlinSummer/

in https://www.linkedin.com/in/tuberlinsummerschool/

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Federal Ministry of Education and Research