

2 DAYS · ONLINE · ENGLISH

Training für Ihr Graduiertenkolleg

Example: Here's what a customized course for your graduate research training program might look like.

DATES

New dates in preparation

Date, price and enrollment deadline appear on the course page as soon as they are confirmed.

FORMAT	Online	LANGUAGE	English
DURATION	2 days	CERTIFICATE	Certificate of Participation

Course Overview

You would like to organize a “Introduction to Python” transferable skills training course for the doctoral students in your Research Training Group, one that is specifically tailored to the group. To this end, you are looking for a suitable instructor.

The training is intended for 25–30 participants from Berlin and Potsdam (TU, HU, FU, University of Potsdam), and FMP Berlin-Buch) in the fields of molecular biology, biochemistry, biotechnology, microbiology, structural biology, computational chemistry, synthetic methods, and analysis.

You envision a course that is as practical and hands-on as possible, held over two days, in English, and in person. The course should also be accessible to doctoral students with no prior knowledge; for example, setting up a development environment (such as Anaconda and Jupyter) and Python basics (syntax, functions, classes, file and data handling, data processing) should be integral parts of the training.

Ideally, participants should leave the course able to process and analyze their own experimental and other scientific

data, generate statistics, and present everything graphically. A few practical examples incorporating the most useful libraries should be covered. The data may come, for example, from the fields of structural biology, spectroscopy (NMR, MS, IR, etc.), physical and analytical chemistry, biochemistry and molecular biology, and/or pharmacology. Finally, the use of AI for programming and the integration of APIs should also be addressed.

Learning Goals

- Set up an environment using Anaconda and Jupyter
- Understand and apply Python basics
- Process, analyze, and graphically represent scientific data
- Use AI for programming

Participation & Requirements

TARGET GROUP	Doctoral students in your Research Training Group
PRIOR KNOWLEDGE	Little prior knowledge (introductory course)
TECHNICAL REQUIREMENTS	Personal laptop with administrative access rights
CERTIFICATE DETAILS	Certificate of Participation

QUESTIONS ABOUT THIS COURSE?

Register Now

<https://academy-tu.berlin/en/courses/custom/training-fuer-ihr-graduiertenkolleg>
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QR code to the course page