



Who am I

Frances

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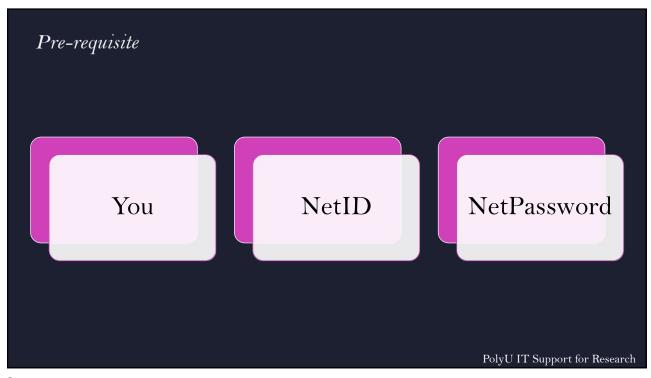
Course Materials

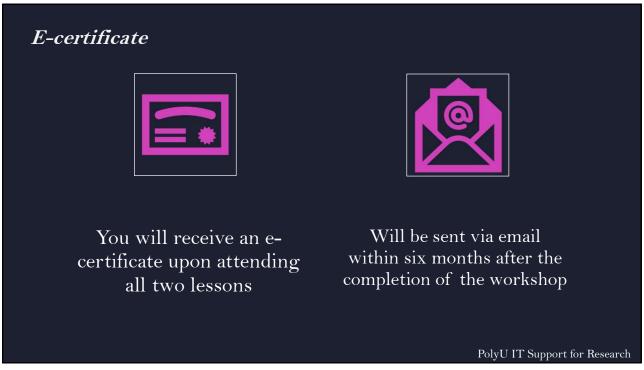
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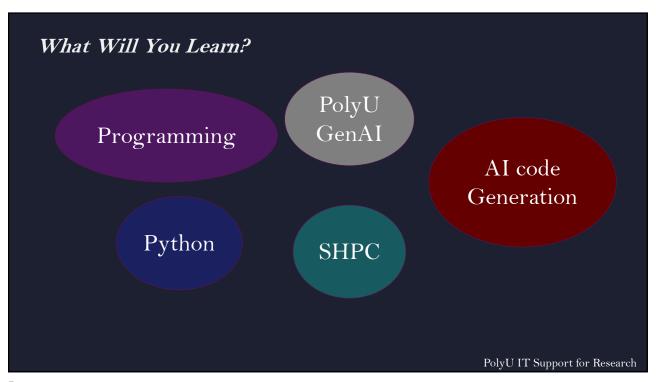
05 Sep 2024, 12 Sep 2024 14:30 to 17:00



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Services Provided by the Student HPC Platform (SHPC)

AI-Powered VS Code



With the Al-Powered plugin, VS Code becomes a helper for coding. It utilizes the Al model to
enable developers to inquire about code, receive suggestions, write code, fix bugs, and create
files directly within the editor.

MatLAB



MATLAB is a powerful tool that acts like a supercharged calculator. It makes solving tricky math
problems and creating simulations straightforward. With parallel computing in MATLAB, it's like
having a team of calculators working together simultaneously, which speeds up tasks and
makes them more effective.

Jupyter Notebook/Lab



You can create documents with live code to do things like clean data, run simulations, build models, and explore machine learning, and more.

And more.

Workshop Outline

Python Programming Basic

Conditional Statement

Data Type

File input and output

Connecting to Database

Object-Oriented Programming

Popular Libraries

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Programming Environment

- Continue Extensions (Open-source AI code assistant)
- → https://open-vsx.org/extension/Continue/continue
- 1. Generate codes
- 2. Understand codes
- 3. Autocomplete codes
- 4. Fix the codes
- 5. Optimize the code
- 6. Write a Docstring/ Comments for the code

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Continue

\Rightarrow Why do we need to learn programming?	
\Rightarrow Why should we learn Python?	
\rightarrow Where should we begin?	PolyU IT Support for Research

Programming Environment

Thtps://studenthpc.polyu.edu.hk/

Student HPC

If you do not have PolyU Student HPC account, please disk here with your connect account

Log in with your registered PolyU account

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Log in to Student HPC

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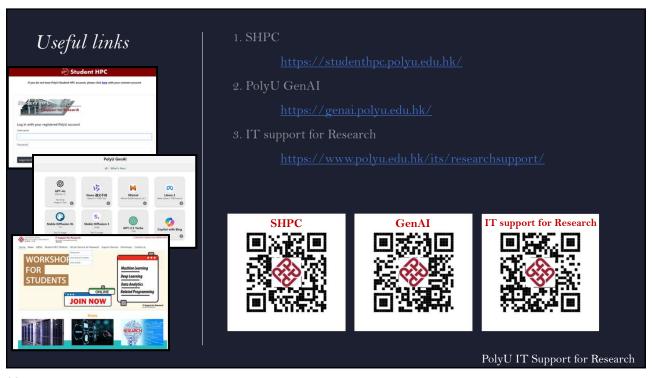
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Research

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Useful Shortcut for continues	
Action	Shortcut
List all shortcut	Ctrl + K Ctrl + S
Instruction to AI	Ctrl + I
Auto complete	tab
Accept all	Ctrl + Shift + Enter
Reject All	Ctrl + Shift + Backspace
Add to chat	Ctrl + L
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