Photon and Neutron (PaN) E-learning platform

PaN-learning.org

PaN-learning

The EU-funded e-learning platfrom where lecturers and beamline scientists can provide training to students and researchers on:

- Theory of PaN science.
- How instruments work.
- Data Reduction.
- Data Analysis

Moodle platform

PaN-learning runs the popular moodle platform used by many universities throughout the world. You can:

- Track your students.
- Upload **video** or **written** material.
- Embed external content.
- Add interactive **quizzes** or **H5P** content.

Simple log on

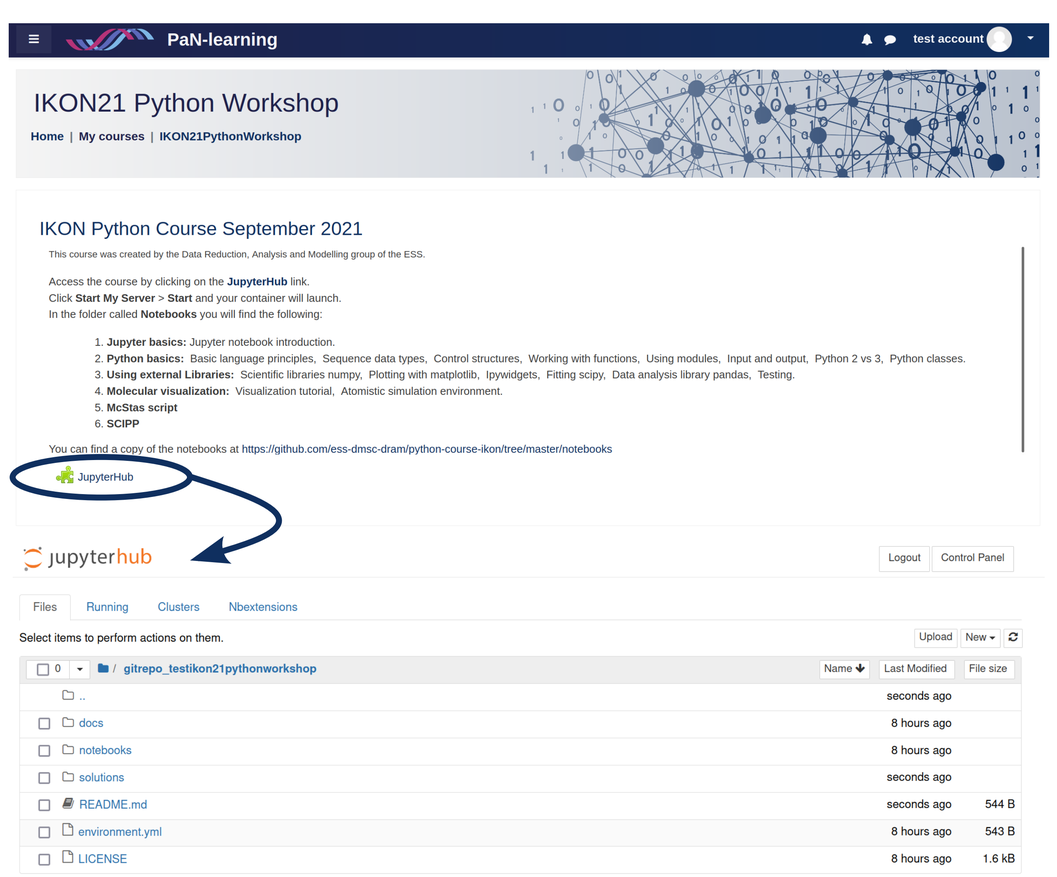
We are working towards making account creation as simple as possible

- Create an account with **UmbrellaID**.
- Log in with **ORCID**.
- You can also request an account by filling in an online form.

Jupyter Intergration

Teachers can include **Jupyter notebooks** in their courses. This provides beamline users and students a place to learn and practice data analysis and reduction.

- Notebooks run remotely on ESS servers.
- A **docker** container is launched for each student.
- Content is pulled from **github** so you only need to update there.
- Mainstream modules and software are already installed.
- Only people enrolled on a course can access the notebooks.
- We will soon migrate to **JupyterLab**.



Wiki Pages

PaN-learning also has an attached wikipedia-style section.

- Does not require a log in.
- Great for notes on the theory of beamlines and data analysis.

History

PaN-learning was built on E-neutrons which was developed by Associate Professor of Copenhagen University, Lindy Udby. The project was then taken over by EU-funded institute collaboration projects.

Courses on photon science are desparately lacking!

If you are interested in contributing to PaN-learning please contact us.
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