

Course trail

Total price: 400 € 350 €

Registration
October 2023



Partners









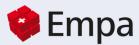












Materials Science and Technology

Università





DEGLI STUDI DI PADOVA

HELSINGIN YLIOPISTO HELSINGFORS UNIVERSITET UNIVERSITY OF HELSINKI

Metso:Outotec

ELMO-LION.COM LUT.ELMO-LION@LUT.FI



PhD course (6 ECTS) Educational Learning Modules on Li-ion batteries

For 2024 course consists of 3 modules: Online Lectures, Project Work and Summer School. Each module can be taken separately or together with other modules.







Online lectures

March 2024 Price: 50 € 2 ETCS



April 2024 Price: 50 € 2 ETCS





Summer school

August 2024 Price: 300 €

2 ETCS

Module 1 Online lectures

March - June 2024 2 ETCS, 50 €

This Module includes number of broad topics in the field of batteries.

First principles of the Li-ion batteries

Synthesis of the battery materials

Battery market

Spectroscopic

methods

Recycling strategies for Li-ion batteries

Diagnostic and operation

All lectures are conducted online through the CEPHEI education platform and are presented by the real experts in the battery area.

Quizzes follow each lecture; you need a minimum score of 80% on all quizzes to get credits.

Module 2 Project work

April - July 2024 2 ETCS, 50 €

The project work module entails collaborative group projects culminating in a comprehensive report.

Students will receive a curated set of topics reflecting the current challenges and requirements of industrial partners.





Each student is expected to develop individual solutions for the assigned case.



The duration of Summer school is 5 days.

The lectures and seminars from idustrial and academy partners

Working on the developing ideas for solving industrial challanges under the mentor's supervision

Start-up application