

Numerical and experimental modelling and control of Wave Energy Converters

May 11th to May 22nd, 2026

Course information

The main objective of the course is to train each participant in **numerical and experimental modelling and control** of **wave energy converters** (WECs). The main topics covered by the course are:

- Different wave energy **conversion techniques**,
- Fundamentals of physics-based **WEC modelling**,
- Fundamentals of **experimental modelling** of WECs via system identification,
- WEC **control techniques** for performance enhancement.

The course includes both **numerical and experimental** application of all these concepts, providing the students with a wide variety of skills.

Pre-requisites

To ensure full benefit of the course, participants should be in possession of:

- A degree in **Engineering**.
- Basic knowledge of Matlab or any other **programming language**.

Location

The course will be given at the **Department of Civil Engineering** of **Aalborg University**, in Aalborg, Denmark.



maps

Participation

The **registration deadline** for the course is on the **April 20th**, and there is a maximum number of **24 participants** (assigned on a first-come first-served basis).

<https://phd.moodle.aau.dk/blocks/vitrina/detail.php?id=2976>

The course is **free** for **Ph.D. students** registered at any university, for **non-students/industry participants**, the **registration fee is 1500€**. Note that living expenses are in charge of the participants in both cases.

The course is arranged through the Doctoral School of Aalborg University. Contact ffer@build.aau.dk for **further information**.

Organizers and lecturers



Francesco Ferri
Aalborg University



Nicolas Faedo
Politecnico di Torino



Yerai Peña-Sanchez
Mondragon Unibertsitatea



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