Energy technology

Basic information

Code: FITech
Extent: 5–20 ECTS
Language: English
Organising University: University of Vaasa
Methods and location: Online
Teacher in charge: Professor Seppo Niemi, University of Vaasa (seniemi@univaasa.fi)
Administrative contact: Maria Tuuri, University of Vaasa (maria.tuuri@univaasa.fi)
Target group: Schools of Technology students
Application process:
- This guideline applies to students who want to attend FITech studies in universities other than their home university.
- Instructions for applying (opens in a new tab)
- More info can be found on FITech’s website.
Quotas and restrictions: -
Prerequisites: The courses are especially suitable for master's level students with some background knowledge of physics and chemistry.

Content and structure of the minor

The University of Vaasa offers minor studies focused on the marine power generation systems, fuels and the abatement solutions of exhaust emissions.

What is it about?
For marine applications, new renewable fuel options and novel prime mover solutions are required to increase the sustainability of the marine transport and traffic.

This minor concentrates on the marine fuel alternatives, efficient and flexible prime movers and emissions abatement systems. Studies cover liquid renewable fuels and their blends with fossil fuels as well as gaseous fuel alternatives. In addition, the courses deal with the fundamentals of internal combustion engines. The emissions abatement systems are also considered.

Finally, the student can collect all their new knowledge by performing project work and writing a special assignment within the marine energy generation systems – preferably in close cooperation with a company.

Who is it for?
The module is suitable for students seeking a career in the marine or energy sector or are generally interested in shaping a professional viewpoint on sustainability and energy problems.

Why attend?
The module provides the participant with basic engineering knowledge and tools used in the design, operation and maintenance of most relevant energy system components: fuel supply chain, combustion engines and after-treatment systems.

The module promotes problem-solving and analytical skills in the domain and gives a solid basis for starting a successful career in the rapidly developing energy sector, in both engineering and management positions.

More information: https://fitech.io/studies/energy-technology/

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<tr>
<td>FITech</td>
<td>Marine and power plant engines</td>
<td>5</td>
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<td>FITech</td>
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