

ENERGY TECHNOLOGY, Vasa (Vaasa in Finnish)
(Courses are preliminary and subject to change)

DEGREE PROGRAMME OF ENERGY TECHNOLOGY (Academic year 2019-2020)

Become skilled in the control and optimization of energy systems, explore new innovations in the bio-based circular economy and discover the latest developments in energy generation and storage.

Welcome to the city of Vaasa, the biggest energy industry cluster in the Nordic countries!

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|---|--------|-----------|
| Environmental Engineering | | 15 |
| Sustainability in Engineering Solutions | Autumn | 6 |
| - Sustainability in Engineering Solutions, 1 (3 ECTS) | | |
| - Sustainability in Engineering Solutions, 2 (3 ECTS) | | |
| Project Management | Spring | 6 |
| Bio-Economy Innovation | Spring | 3 |
| Process Technology | | 15 |
| Energy Technology | Autumn | 3 |
| Combustion Engineering | Autumn | 6 |
| Energy: Resources, Transfer and Storage | Autumn | 6 |
| Energy Control Engineering | | 15 |
| System Control Methods | Autumn | 9 |
| - Digital Logic Basics (3 ECTS) | | |
| - Practical Boolean Control (3 ECTS) | | |
| - Microcontroller Techniques (3 ECTS) | | |
| Fundamentals of Electrical Energy | Autumn | 3 |
| Energy Control with AC drives | Spring | 3 |
| Energy Design and Optimization | | 15 |
| Technology: Solutions, Design and Engineering | Spring | 3 |
| Distributed Energy Systems | Spring | 6 |
| Modelling, Simulations and Optimization of Energy Systems | Spring | 6 |

Mode of delivery and implementation

The programme is designed to support a culture by which students learn through reflective practice and collectively through group interaction and enterprise.

The programme will utilize a range of pedagogical tools: Lectures with in-class activities, modelling/simulation workshops, problem-based calculations, laboratory work, peer-presentations, directed reading and video, prompted discussion and industrial visits.

All delivered by Novia's expert network of lecturers/coaches.

Vaasa Region Tourist Brochure 2019 ([click here](#))

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