

Exchange- programme

Qualification awarded

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Length of the programme

6 months

ECTS credits

30

Level of qualification

Bachelor

Mode

Full-time

Language

English

School

Institute of Engineering

Locations

Groningen

Exchange Energy Efficiency in the Process Industry (autumn)

Profile of the programme

This program is offered in semester 1, starting September

In the minor 'Energy Efficiency in the Process Industry' the focus is on saving energy in the process industry by implementing available technologies and equipment in an existing installation. Saving energy will often coincide with other objectives such as rationalizing maintenance, increasing production capacity and improving compliance.

This minor contains several courses which will provide students with the required knowledge concerning exergy and pinch analysis, utility systems and process data analysis, in order to be able to complete the case that is subject of the project in this minor. This 17 EC project calls for the skills to set up a project-organization and the deployment of knowledge that is gained during the lectures. Final result of this project is a motivated investment proposal, based on process data, energy savings results and return on investments. Besides that, students will present a plan that contains all the required components for the possible implementation of the plan. Students will work together in small groups during the project.

Learning outcomes

Students will learn how to discover, quantify and prioritize options for saving energy and learn to design compliant adaptations to the existing installation and control system that best serves the companies

Programme

Exchange Energy Efficiency in the Process Industry (autumn)

credits

Energy Efficiency	30
▫ WBVH19EPI - Exergy & Process Integration	4
▫ WBVH18PDA - Process Data Analysis	4
▫ WBVH19US - Utility Systems	5
▫ WBVH19IP - Industry Project	17