Course: Sustainable Energy Technology — credits: 5

Course code	ELVP22SET
Name	Sustainable Energy Technology
Study year	2026-2027
ECTS credits	5
Language	Dutch, with parts in English, English
Coordinator	N.A.A. al Geelani
Modes of delivery	Problem-based learning
Assessments	Sustainable Energy Technology - Assignment

Learning outcomes

Defining

The student clearly identifies a problem or customer need, contextualizes it, consults relevant sources, and converts it into a goal, problem statement, and electrical engineering requirements.

Designing

The student considers various solution directions to arrive at a detailed and well-founded electrical engineered product/service/process based on the program of requirements, using appropriate design methodologies and taking into account societal interests and engineering standards.

Professionalizing

The student is able to acquire and maintain skills, is self-directed, constructive in giving and receiving feedback, shows flexibility, and can communicate clearly.

Content

This course focuses on sustainable energy technologies and their applications in a practical environment.

For example:

- Sustainable energy generation, such as geothermal heat, wind-, water-, and solar energy, as well as biomass
- Sustainable energy transport, such as hydrogen and other (synthetic) gases and heat networks
- Sustainable energy usage, such as the energy transition and system integration of sustainable energy sources
- Sustainable energy storage, such as hydrogen, heat/cold storage, and batteries

Included in programme(s)

Electrical Engineering Major Mechatronics
Electrical Engineering Major Sensors & Smart Systems
Electrical Engineering Major Energy & Power Electronics

School(s)

Engineering, Life Sciences & ICT

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