Course: Separation Technology 2 — credits: 5

Course code	CTVH26SCHEIDTCH2
Name	Separation Technology 2
Study year	2026-2027
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	J.M. Meerdink
Modes of delivery	Lecture Practical / Training Tutorial
Assessments	Separation Technology 2 - Practical - Other assessment Separation Technology 2 - Theory - Written, organised by STAD examinations

Learning outcomes

The Separation Technology 2 module covers the following components of the BOKS Chemical Technology curriculum:

Knowledge:
- Unit operations: separation techniques: Drying and Extraction

Skills:
- Experimenting with pilot-scale separation techniques
- Working safely in laboratory and industrial environments
- Research skills and systematic problem-solving

This module has the following learning outcomes:
- You describe the extraction process mathematically and graphically for single-stage, cross-flow and counter-flow extraction.
- You calculate and/or determine relevant physical properties of air from the psychrometric chart.
- You describe the drying process mathematically for drying under constant drying conditions.
- You will conduct a semi-technical scale experiment using a bench-scale cooling tower and use a mass-energy balance and the psychrometric chart to describe the experimental results.
- You will conduct a semi-technical scale drying experiment using a bench-scale dryer and use the results to describe and predict the drying process.

The aim of the module is to develop competence in the field of separation technology. The module forms part of the Separation Technology learning pathway, alongside the modules Process Simulation and Modelling 1 & 2 and Separation Technology 1.

Content

Included in programme(s)

Chemical Engineering

School(s)

Engineering, Life Sciences & ICT

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