Course: Process Engineering 1 — credits: 5

Course code	CTVP23PROCES1
Name	Process Engineering 1
Study year	2023-2024
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	A. Kloekhorst
Modes of delivery	Assignment Lecture Practical / Training Tutorial
Assessments	Practicum incl. Technisch Tekenen - Other assessment Theorie - Written, organised by STAD examinations

Learning outcomes

The Process Technology 1 curriculum component covers the following components of the Chemical Engineering BOKS:

Knowledge:

Unit operations:

Being able to describe, draw and balance (mole and mass) single and multiple systems with and without reaction.

Reproduce separation methods and reaction systems.

Process engineering

Convert processes to block diagrams and PFDs.

Drawing PFDs and P&IDs

Statistics and Mathematics

Being able to convert units (mol to mass e.g.)

Skills:

Research skills and systematic problem solving

Working safely in a laboratory environment

Social and communication skills

This module has the following learning outcomes:

You prepare mass balances on single and multiple separation and reaction processes and evaluate them in mol and mass units.

You draw and interpret a PFD and P&ID.

DAS competencies

Competency	Level (I-IV)
Research	I
Experimentation	I
Development	I

Content

The aim of the module is to develop understanding and knowledge of basic Chemical Engineering topics, be able to create and solve mass balances and strengthen lab skills.

The module is part of the Basic Process Technology learning line. The follow-up module of this learning line is Process Technology 2 in quarter 4 of academic year 1.

Management
Advise
Instruction I
Leadership
Self-management I

Included in programme(s)

Chemical Engineering

School(s)

Institute for Life Science & Technology

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