Course: Laboratory theme 11 credits: 4

Course code	CTVH8THM11
Name	Laboratory theme 11
Study year	2025-2026
ECTS credits	4
Language	Dutch, with parts in English
Coordinator	G. Lammers
Modes of delivery	Practical / Training
Assessments	Theme 11: Process Technology - Other assessment

Learning outcomes

After completion of the module, the successful student will be able to:

- Startup a pilot-plant scale distillation column, run it, and interpret experimental results by means of McCabe-Thiele theory/analysis;
- Use a filter press for separation of solid-liquid mixtures and make predictions as to the filter capacity as a function of slurry composition and filtration pressure drop;
- Perform supercritical extraction using CO2 and use the results for scale-up and design;
- Run a gas absorption column and interpret experimental results in light of hydrodynamics and mass transfer;
- Run a cooling tower and describe the cooling capacity by modelling;
- Perform a systematic safety and operability study for process equipment (HAZOP)

Content

Level: advanced (3)
Content:

Included in programme(s)

Chemical Engineering

School(s)

Institute for Life Science & Technology

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