

Course: Laboratory theme 11

credits: 4

Course code	CTVH8THM11	Modes of delivery	Practical / Training
Name	Laboratory theme 11	Assessments	Theme 11: Process Technology - Other assessment
Study year	2022-2023		
ECTS credits	4		
Language	Dutch, with parts in English		
Coordinator	G. Lammers		

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