

Course: Laboratory theme 11

Course code
Name
Study year
ECTS credits
Language
Coordinator

CTVH8THM11 Laboratory theme 11 2022-2023 4 Dutch, with parts in English 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)

Included in programme(s)

Chemical Engineering

Content

Level: advanced (3) Content:

Modes of delivery

Assessments

Practical / Training

assessment

Theme 11: Process Technology - Other

School(s)

Institute for Life Science & Technology

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credits: 4

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