

Resources Chemical Technology (I002848)

Due to Covid 19, the education and assessment methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size *(nominal values; actual values may depend on programme)*

Credits 5.0

Study time 150 h

Contact hrs

45.0h

Course offerings in academic year 2021-2022

A (semester 1)

English

Gent

Lecturers in academic year 2021-2022

Bertau, Martin

FREIBE01

lecturer-in-charge

Offered in the following programmes in 2021-2022

crdts

offering

[International Master of Science in Sustainable and Innovative Natural Resource Management](#)

5

A

Teaching languages

English

Keywords

Position of the course

Contents

Fundamentals: Chemical technology of raw material recovery processes, chemistry of main group and transition metals as well as lanthanides, basic unit operations, basic reaction engineering. Applications: Realisation of raw material processing on a technical scale, process economy, environmental safeguards.

Initial competences

Fundamental knowledge in chemical technology, chemical engineering and inorganic chemistry

Final competences

After completing this module, students should be able to understand raw material processing on a technical scale explain the chemical-technological concepts behind modern production techniques

Conditions for credit contract

This course unit cannot be taken via a credit contract

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Extra information on the teaching methods

S1 (WS): Lectures (1 SWS)

S1 (WS): Tutorials / Exercises (1 SWS)

S1 (WS): Case studies (problem-based learning workshops) / project (1 SWS)

Learning materials and price

References

M. Bertau, P. Fröhlich, M. Katzberg, Industrial Inorganic Chemistry, Wiley, 2016

Kirk-Othmer et al., Chemical Technology, Wiley, 2013

J. Huheey et al., Inorganic Chemistry, Pearson, 2008

Course content-related study coaching

Assessment moments

Examination methods in case of periodic assessment during the first examination period

Examination methods in case of periodic assessment during the second examination period

Examination methods in case of permanent assessment

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible

Calculation of the examination mark