

Course Specifications

Valid in the academic year 2022-2023

Resources Chemical Technology (1002848)

Course size	(nominal values; actual values may depend on programme)					
Credits 5.0	Study time 150 h		Contact hrs	45.0h		
Course offerings in ac	ademic year 2022-2023					
A (Year)	English	Gent				
Lecturers in academic	year 2022-2023					
Bertau, Martin			FREIBE01	lecturer-in-charge		
Offered in the following programmes in 2022-2023					offering	

1	International Master of Science in Sustainable and Innovative Natural Resource	5	Α
1	Management		

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

- 1 After completing this module, students should be able to understand raw material processing on a technical scale
- 2 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

Lecture: plenary exercises, Lecture, Integration seminar

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

Extra information on the examination methods

For the award of credit points it is necessary to pass the module exam.

Calculation of the examination mark