GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2025-2026

Classifying Machines, Crushers, Mills (I002925)

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

Credits 5.0 **Study time 150 h**

Course offerings in academic year 2026-2027

A (Year)	English	Gent

Lecturers in academic year 2026-2027

Lieberwirth, Holger	FREIBE01	lecturer-in-charge
Meltke, Klaus	FREIBE01	co-lecturer

Offered in the following programmes in 2026-2027	**crdts**	**offering**
International Master of Science in Sustainable and Innovative Natural Resource Management	5	A

Teaching languages

English

Keywords

classification, design, planning, crushers & mills

Position of the course

Contents

Planning and design of classifying machines, crushers and mills (Static, Vibrating and Drum Screens, Cyclons and Air Separators; Jaw, Double Roll, Cone, Gyratory, Hammer and Impact Crushers; Tumbling, High Pressure Grinding, Vertical Roller, Vibrating, Stirred Media, Impact, (Beater and Jet Mills)

Initial competences

Final competences

The students will be enabled to select, calculate and design classifying machines, crushers and mills according to the specific requirements of their applications.

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

Seminar, Lecture, Practical

Study material

None

References

Wills, B.A.; Napier-Munn, T.J.: Mineral Processing Technology, Elsevier, 2007
Gupta, A.; Yan, D.: Mineral Processing, Design and Operations, Elsevier, 2016
Metso: Crushing and Screening Handbook, 2006
Höffl, K.: Zerkleinerungs- und Klassiermaschinen, Dt. Verlag für Grundstoffindustrie, Leipzig 1985

Course content-related study coaching

Assessment moments

end-of-term and continuous assessment

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

Oral assessment, Written assessment

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

Oral assessment, Written assessment

Examination methods in case of permanent assessment

Participation

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible in modified form

Calculation of the examination mark