

## 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 2024-2025**

A (Year)

English

Gent

**Lecturers in academic year 2024-2025**

Lieberwirth, Holger

FREIBE01 lecturer-in-charge

Meltke, Klaus

FREIBE01 co-lecturer

**Offered in the following programmes in 2024-2025**

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

**crdts**

5

**offering**

A

**Teaching languages**

English

**Keywords**

**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, Independent work

**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

Höfft, 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**

Participation, Written assessment

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

Participation, 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**