

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 2023-2024

A (year) English Gent

Lecturers in academic year 2023-2024

Lieberwirth, Holger

FREIBE01 lecturer-in-charge

Meltke, Klaus

FREIBE01 co-lecturer

Offered in the following programmes in 2023-2024

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

crdts **offering**

5 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

null

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

Lecture, seminar, independent work

Learning materials and price

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

Evaluation methods

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

Participation, written assessment

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

Participation, written assessment

Examination methods in case of permanent evaluation

Participation

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible in modified form

Calculation of the examination mark