Course Specifications
Valid as from the academic year 2017-2018

Analysis of Products and Processes (E064120)

Course specifications
Lecturers in academic year 2019-2020
Van Langenhove, Lieva
TW11 lecturer-in-charge

Course offerings and teaching methods in academic year 2019-2020
A (semester 1) English seminar: coached exercises 30.0 h lecture 30.0 h
B (semester 1) Dutch guided self-study seminar: coached exercises 30.0 h

Offered in the following programmes in 2019-2020
Master of Science in Sustainable Materials Engineering 6 A
Master of Science in Materials Engineering 6 A, B

Teaching languages
Dutch, English

Keywords
Sample set-up, data processing, decision-taking, quality.

Position of the course
The aim of the course unit is to teach the students how a maximum of reliable information can be obtained about a process or a product with a minimum of efforts. An item deals with quality systems.

Contents
• Introduction to statistics
• Fundamental properties
• Statistical distribution
• Quality follow-up
• Calculated risks
• Variance analysis
• Regression analysis
• additional techniques

Initial competences
Statistical methods.

Final competences
1 Know the concepts: test setup, data processing, decision-making, quality.
2 Obtain insight in how to obtain a maximum of reliable information based on a minimum number of data (process/product).

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract
This course unit cannot be taken via an exam contract

Teaching methods

(Approved)
Guided self-study, lecture, seminar: coached exercises

Learning materials and price
Syllabus.

References

Course content-related study coaching

Evaluation methods
end-of-term evaluation

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

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

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
not applicable

Extra information on the examination methods
During examination period: written open-book exam complemented with oral examination.

Calculation of the examination mark