Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course offerings and teaching methods in academic year 2019-2020

<table>
<thead>
<tr>
<th>A (year)</th>
<th>Dutch</th>
<th>on campus seminar</th>
<th>30.0 h</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>on campus lecture</td>
<td>30.0 h</td>
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Lecturers in academic year 2019-2020

Moens, Jan

TW01 lecturer-in-charge

Offered in the following programmes in 2019-2020

- Bachelor of Science in Engineering: Architecture
  - 6 credits A
- Preparatory Course Master of Science in Engineering: Architecture (main subject Architectural Design and Construction Techniques)
  - 6 credits A
- Preparatory Course Master of Science in Engineering: Architecture (main subject Urban Design and Architecture)
  - 6 credits A

Teaching languages

Dutch

Keywords

building envelope, facade systems, building materials, detailing, building nodes

Position of the course

This course aims to give an insight into the significant building envelope systems, to reach methods to construct and detail the building nodes of these systems and to relate the principles of construction and detailing of building envelopes to these of building physics.

Constructional aspects of the building envelope is organized in consultation with the course of physical behaviour of buildings to ensure an affiliation to this discipline.

Contents

- Introduction
- Preliminary study of general principles of: Fixturing and assembly techniques, Joints
- Sloping roofs and metal parts: Principles, Materials and building practice, Detailing, penetration and connections
- Flat roofs and terraces: Principles, Materials and building practice, Detailing, roof penetration and connections
- External carpentry: Definition and principles, Materials and building practice, Detailing and connections
- Light facades: Principles, Materials and building practice, Detailing and connections, Connection to building frames, consolidation
- Heavy facades: Principles, Materials and building practice, Detailing and connections, Connection to building frames, consolidation

Initial competences

- Physical behaviour of buildings

Final competences

Conditions for credit contract

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

Conditions for exam contract

(Approved)
This course unit cannot be taken via an exam contract

Teaching methods
On campus lecture, on campus seminar, self-reliant study activities

Extra information on the teaching methods
Classroom lectures; Classroom problem solving sessions; Guided workshops

Learning materials and price
Syllabus in preparation

References
• NBN, STS, Technische Voorlichtingen van het WTCB

Course content-related study coaching

Evaluation methods
end-of-term evaluation and continuous assessment

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

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

Examination methods in case of permanent evaluation
Assignment

Possibilities of retake in case of permanent evaluation
examination during the second examination period is not possible

Extra information on the examination methods
During examination period: oral closed-book exam.
During semester: graded workshop results.

Calculation of the examination mark