

Design and Techniques for Renovation of Buildings (E050730)

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

Credits	6.0	Study time	180 h	Contact hrs	37.5 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 1)	Dutch	lecture	15.0 h
		seminar	15.0 h
		fieldwork	7.5 h

Lecturers in academic year 2018-2019

Nys, Charlotte	TW01	lecturer-in-charge
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Offered in the following programmes in 2018-2019

	crdts	offering
Master of Science in Engineering: Architecture (main subject Architectural Design and Construction Techniques)	6	A
Master of Science in Engineering: Architecture (main subject Urban Design and Architecture)	6	A

Teaching languages

Dutch

Keywords

Renovation, re-use, repair

Position of the course

Initiation to degradation processes on materials and structures, their diagnosis, and the ways to prevent or repair. Introduction to the technical aspects concerning the preparation of a renovation project, and the most common methods and techniques for intervention.

Contents

- Needs and requirements on renovation
- Analysis and diagnosis of degradation
- Intervention techniques on materials and structures
- case studies

Initial competences

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

This course unit cannot be taken via an exam contract

Teaching methods

Lecture, fieldwork, seminar, seminar: coached exercises

Learning materials and price

reader: 20 euro

References

- A. De Naeyer (Ed.): Handboek Onderhoud, Renovatie, Restauratie, Kluwer Uitgeverij, Mechelen (losbladig systeem) sinds 1999
- G. Croci: The conservation and structural restoration of architectural heritage, Computational Mechanics Publications, Southampton 1998

Course content-related study coaching

Evaluation methods

end-of-term evaluation

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

Written examination

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

Written 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: oral closed-book exam; graded lab sessions

Calculation of the examination mark