

COURSE SYLLABUS

Innovations in the Built Environment, 5 credits

Innovationer i den bebyggda miljön, 5 högskolepoäng

Course Code:	FT3IIDB	Education Cycle:	Third-cycle level
Confirmed:	May 19, 2025	Research subject:	Built Environment
Valid From:	Aug 31, 2026		

Intended Learning Outcomes (ILO)

On completion of the course, the student shall:

Knowledge and Understanding

- Summarize the development of knowledge on ongoing innovations within the Built Environment,
- Describe how research on innovations can contribute throughout the Built Environment's life cycle phases,
- Identify phenomena of relevance of innovations in the Built Environment for research and practice.

Skills and Abilities

- Demonstrate the ability to identify and formulate issues that contribute to increased knowledge about the Built Environment's innovations,
- Demonstrate knowledge and skills in identifying and approaching relevant Built Environment stakeholders,
- Communicate the analysis of collected qualitative data in a comprehensive way.

Judgement and Approach

- Reflect on current needs in the Built Environment industry including the contribution by research through innovation,
- Argue for innovation, relevance, and utilization of Built Environment research.

Content

The doctoral course offers a high-level and in-depth understanding of the theory, technology, and design of the Built Environment. It focuses on the current state as well as the shift happening in how the environment is valued, designed, constructed, operated/used, maintained, transformed, and decommissioned. The student will perform interviews with professionals from various disciplines within the Built Environment, with extensive experience in key areas. The actors are chosen in relation to and relevant for the research assignment within the doctoral project (and, potentially, the development of the doctoral student's future career).

Prior, during, and after the interview sessions, the student focuses on the determination of current sustainable and circularity needs in the construction industry. Besides, the student will reflect on how research can contribute through innovation to different aspects like, for example, technological advancements, sustainable practices, resilience and adaptation, human-centric engineering, smart and connected spaces, and collaborative and integrated approaches. The student will analyse the outcomes of the interviews and discuss the relationship between their doctoral project in writing.

The course provides theoretical and practical knowledge regarding the technological advancements and sustainable practices involved in the value and transformation of the built environment throughout the life cycle phases (design, construction, O&M).

Type of Instruction

Language of instruction is English.

Entry Requirements

Admitted to the third-cycle programme or equivalent.

Examination and Grades

The course is graded Pass (G) or Fail (U).

The grade Pass requires mandatory attendance at all seminars, active participation, an oral presentation as well as completion of the written assignment.

Registration of examination:

Name of the Test	Value	Grading
Written assignment	2 credits	G/U
Oral assignment	1 credit	G/U
Seminars / pre-recorded modules	2 credits	G/U

Course Literature

Please note that the course literature may be revised up to eight weeks before the start of the course.

The literature list for the course will be provided two months before the course starts.