



## KURSPLAN

# Research Methods for the Built Environment, 7,5

### högskolepoäng

*Research Methods for the Built Environment, 7.5 credits*

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<b>Kurskod:</b>	TRBS23	<b>Utbildningsnivå:</b>	Avancerad nivå
<b>Fastställd av:</b>	VD 2023-03-01	<b>Utbildningsområde:</b>	Tekniska området
<b>Reviderad av:</b>	Utbildningschef 2023-05-17	<b>Ämnesgrupp:</b>	BY1
<b>Gäller fr.o.m.:</b>	2023-08-01	<b>Fördjupning:</b>	A1F
<b>Version:</b>	2	<b>Huvudområde:</b>	Bebyggd miljö

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### Lärandemål

After a successful course, the student shall:

Kunskap och förståelse

- display knowledge in identifying research problems, its theoretical framing, and the consequences for research design
- display knowledge in selecting appropriate research methods.

Färdighet och förmåga

- demonstrate the ability to prepare a research plan
- demonstrate the ability to experiment with data collection and data treatment of a cohort
- demonstrate the ability to apply assessment methods for interaction between humans and the built environment (products and/or services).

Värderingsförmåga och förhållningssätt

- demonstrate the ability to critically review evidence levels for research papers
- demonstrate the ability to compose a research plan
- demonstrate the ability to argue for research design and its consequences.

### Innehåll

The course will provide students with knowledge about the research process within the built environment subject, from formulations research problems to the written production of scientific essays.

The course includes the following elements:

- Introduction to research for the built environment and the research process
- Introduction to human factors in the built environment
- Methodology for investigation of the built environment including quantitative and qualitative assessment methods
- Specific research approaches for the Built Environment including for example Human factors, Evidence Based-Design, Post Occupancy Evaluation, etc.

## Undervisningsformer

The course consists of lectures, exercises, and seminars.

Undervisningen bedrivs på engelska.

## Förkunskapskrav

Passed courses at least 90 credits within the major subject in construction engineering, civil engineering, architecture engineering, lighting design or equivalent and 15 credits in mathematics, and taken course Scientific Introduction to BIM and Sustainability 7,5 credits, or equivalent. Proof of English proficiency is required.

## Examination och betyg

Kursen bedöms med betygen 5, 4, 3 eller Underkänd.

The final grade for the course is based upon a balanced set of assessments. The final grade will only be issued after satisfactory completion of all assessments.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Inlämningsuppgift	5 hp	5/4/3/U
Tentamen	2,5 hp	5/4/3/U

## Kurslitteratur

The literature list for the course will be provided 8 weeks before the course starts. Articles will be provided during the course.