



## COURSE SYLLABUS

# Theory of Science, 7.5 credits

*Vetenskapsteori, 7,5 högskolepoäng*

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<b>Course Code:</b> FHVET35	<b>Education Cycle:</b> Third-cycle level
<b>Confirmed by:</b> Utbildningsrådet Sep 24, 2024	
<b>Valid From:</b> Spring 2025	
<b>Version:</b> 1	

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### Intended Learning Outcomes (ILO)

On completion of the course, the student should be able to:

Knowledge and understanding

- demonstrate knowledge of concepts, perspectives and traditions linked to theory of science.

Skills and abilities

- critically analyze scientific assumptions and perspectives in relation to research
- problematize the choice of research methods and design in relation to different scientific perspectives.

Judgement and approach

- reflect on the possibilities and limitations of science, its role in society and how it is being used.

### Contents

- key concepts in relation to theory of science
- various perspectives and traditions within theory of science
- contemporary issues in the field of theory of science

### Type of instruction

The course is implemented through lectures and seminars.

The teaching is conducted in English.

### Prerequisites

The applicant must be admitted to a third-cycle programme.

### Examination and grades

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

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Examination of the course will be based upon seminars and one individually written assignment including opposition.

The course examiner is an associate professor or professor.

Registration of examination:

Name of the Test	Value	Grading
Seminars	2 credits	U/G
Individually written assignment	5.5 credits	U/G

### Other information

Selection

1. Students registered in the third-cycle programme at Jönköping University
2. Students registered in the third-cycle programme at another university

### Course literature

Alvesson, M., & Sköldberg, K. (2009). *Reflexive methodology: New vistas for qualitative research*. Sage.

Hacking, I. (2000). *The social construction of what?* Harvard University Press.

Danermark, B., Ekström, M., Jakobsen, L., Karlsson, J. C. (2006). *Explaining society: critical realism in the social science*. Routledge.

Kuhn, T (2012). *The structure of scientific revolutions*. University of Chicago press

Ladyman, J. (2001). *Understanding philosophy of science*. Routledge.

Scientific articles may be added.

The most recent editions of course literature should be used.