

COURSE SYLLABUS – THIRD-CYCLE EDUCATION

Theory of science and research methodology, 5 higher education credits

Vetenskapsteori och forskningsmetodik, 5 högskolepoäng

Education cycle: Third-cycle education

Disciplinary domain: Industrial Product Realisation

Subject area:

Syllabus valid from: Course syllabus reviewed by RUF 2013-04-29,

established 2013-06-10 by the dean (vd-beslut 2013/053), revised 140523 based on ASP 140311

Learning outcome

On completion of the course the student should:

Knowledge and understanding

- demonstrate basic understanding of various scientific traditions relevant to the field industrial product realisation
- demonstrate deeper knowledge of scientific methods in general and of methods in the specific field of research in particular

Skills and abilities

 demonstrate an ability to identify and formulate issues and to plan with appropriate methods a limited research task

Judgement and approach

- demonstrate an ability to make ethical assessments in their own research
- demonstrate insight into the possibilities and limitations of science

Content

The course includes:

- Basics within theory of science
- Different research designs
- Case study, design science/design research, experiment, action/interactive research, modelling/simulation, etc. based on the needs in the group
- Techniques for data collection (of empirical material)
- Quality and ethics in research



Type of instruction

Lecture and seminars.

Teaching is conducted in English or Swedish dependent on the requirements.

Prerequisites

Admitted to third cycle programme or equivalent.

Examination and grades

The course is graded Fail or Pass.

Examination includes oral and written parts within two assignments, of which one is individual and one is a group assignment.

Name of the test	Value	Grading
Assignments	5 hec	U/G

Course literature

Williamson, K. (2002) Research methods for students and professionals, 2nd ed., Centre for Information Studies, Wagga wagga, NSW.

Additional material is handed out.