



*Course syllabus*

# Arbete-människa-teknik, projekt Working Environment, Project

**MAMN40, 7,5 credits, A (Second Cycle)**

**Valid for:** 2023/24

**Faculty:** Faculty of Engineering, LTH

**Decided by:** PLED C/D

**Date of Decision:** 2023-04-18

## General Information

**Compulsory for:** MVAR2

**Elective for:** C4-da, D4, MD4, R4

**Language of instruction:** The course will be given in English

## Aim

The course aims for students to have the opportunity to immerse themselves in a particular subject and field of study to acquire a deeper ability to identify and solve problems on the basis of scientific evidence. In addition, the course aims to give the student a broader perspective on challenges related to the UN's sustainability goals.

The course also aims to train students in research work and project management in such a way that the project can be extended to a degree.

## Learning outcomes

### *Knowledge and understanding*

For a passing grade the student must

- Demonstrate knowledge in the chosen field's scientific basis and its proven experience as well as some insight into current research and development.
- Use adequate terms and a language adapted to the current project

### *Competences and skills*

For a passing grade the student must

- Demonstrate the ability to identify, formulate and frame questions in their chosen field

- Independently formulate a project plan and with adequate methods carry out a project in the chosen field
- Demonstrate the ability to model, evaluate, develop or design products, processes or systems
- Write a report in which the chosen area is discussed in a scientific way
- Be able to give an oral presentation about their projects and the results achieved

#### *Judgement and approach*

For a passing grade the student must

- Show insight into the applied field's potential and limitations in the context that is relevant to the work: for example, at the individual level, at work, in society
- Describe the ethical aspects available for the current project

## Contents

The course content is tailored to students previous choices and direction. Subject is selected and the project plans are submitted so that the student's previous knowledge is applied and deepened. If a project is multidisciplinary, another department could be involved in the project also.

The course is a project course based on the challenges related to the UN's sustainable goals.

## Examination details

**Grading scale:** UG - (U,G) - (Fail, Pass)

**Assessment:** Written and oral reports are the basis for examination. Compulsory elements: • supervised project exercises • written report • closing seminar

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

## Admission

#### **Admission requirements:**

- The student is required to have fulfilled at least one course that provides basic and/or extended knowledge within interaction, rehabilitation engineering, universal design, ergonomics, risk, organisation or virtual reality within the department

**The number of participants is limited to:** No

**The course overlaps following course/s:** MAM032

## Reading list

- According to the contents of the project.

## Contact and other information

**Course coordinator:** Günter Alce, [gunter.alce@design.lth.se](mailto:gunter.alce@design.lth.se)

**Course homepage:** <http://www.eat.lth.se>