

# COURSE DETAIL

## MECHATRONICS, INDUSTRIAL PRODUCT DESIGN

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering Electrical Engineering Computer Science

**UCEAP Course Number**

169

**UCEAP Course Suffix****UCEAP Official Title**

MECHATRONICS, INDUSTRIAL PRODUCT DESIGN

**UCEAP Transcript Title**

MECH IND DESIGN

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

The course provides the knowledge, skills, and experience from taking part in an industrially based mechatronic development project, which is conducted up to a working prototype. The principal design of the product has been formed in the course Applied Mechatronics. It is essential that the work is done in a team with competences from various fields. The project is done during two study periods. The course participants should develop the mechatronic parts of those projects or other purely mechatronic products. The development process starts with extensive information search, brainstorming, and evaluation, activities which often encompass 30-40% of the total workload. This has been done in the course EIEN65 Applied Mechatronics. Then follows in this course selection of concept, constructive design of the product idea, ordering of components, building, testing, and adjustments. The course concludes with the official presentation of the designed products, where representatives from industry, course leaders, and the press take part. Assumed prior knowledge: Applied Mechatronics.

### Language(s) of Instruction

English

### Host Institution Course Number

EIEN70

### Host Institution Course Title

MECHATRONICS, INDUSTRIAL PRODUCT DESIGN

### Host Institution Course Details

[https://kurser.lth.se/kursplaner/25\\_26-en/EIEN70.pdf](https://kurser.lth.se/kursplaner/25_26-en/EIEN70.pdf)

### Host Institution Campus

Lund

### Host Institution Faculty

Engineering

### Host Institution Degree

**Host Institution Department**

**Course Last Reviewed**

2025-2026

[Print](#)