

Electronics Systems, project

Elektroniksystem, projekt
4 credits

TSIU08

Valid from:

Determined by	Main field of study	
	Electrical Engineering	
Date determined	Course level	Progressive specialisation
	First cycle	G2F
Revised by	Disciplinary domain	
Revision date	Subject group	
Offered first time	Offered for the last time	
2026		
Department	Replaced by	
Institutionen för systemteknik		

Course offered for

- Bachelor of Science in Engineering Electronics

Prerequisites

System Design

Intended learning outcomes

After completing the course, the participant is expected to be able to:

- Contribute to the development of a project team and design of a prototype that integrates analog and digital electronics
- Reflect on the climate and environmental impact of the project
- Describe current opportunities and challenges for research and development within the project area

Course content

- Modular electronic design
- Electromagnetic compatibility (EMC)
- Simulation and verification
- Design considerations regarding cost, performance, and power consumption
- Design and documentation for use, maintenance, updates, and decommissioning
- Analysis and documentation of faults and corrective actions

Teaching and working methods

The course consists of lectures and a design project, including hand-in assignments and realization of a prototype system.

Examination

PRA1	Project work	4 credits	U, G
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Grades

Two-grade scale, U, G