

SYLLABUS

Project in Maintenance Optimization and Simulation 7.5 credits D7014B

Projektkurs i underhållsoptimering och simulering

Course syllabus admitted: Autumn 2020 Sp 1 - Present

**DECISION DATE
2020-02-14**

Project in Maintenance Optimization and Simulation 7.5 credits D7014B

Projektkurs i underhållsoptimering och simulering

Second cycle, D7014B

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Underhållsteknik	Other Subjects within Technology

Entry requirements

D7007B Maintenance Engineering or equivalent

Selection

The selection is based on 30-285 credits

Examiner

Matti Rantatalo

Course Aim

Enable the students to deepen their knowledge in in maintenance optimization and simulation. After completing the course, the students shall be able to:

- independently plan and carry out a project related to state-of-art research and technical development
- integrate general knowledge and understanding of maintenance engineering and its methodological
- analyse products, processes or systems throughout their life cycles and with regard to the sustainable development goals
- evaluate results and summarise the work in a written report as well as an oral presentation
- assess relevant social and ethical aspects of research and development work in maintenance engineering

Contents

Experimental work and/or theoretical modelling. The detailed content of the course is decided in consultation with examiner and shall be related to up to-date research and development.

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The student independently plans and executes the project with guidance. Seminar on scientific literature within the subject and individual assignments.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. To pass the student must have approved project report and assignments. In addition, attendance at seminars including project presentations is necessary.

Literature. Valid from Autumn 2020 Sp 1

Literature will be given before course start.

Course offered by

Department of Civil, Environmental and Natural Resources Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Assignment reports	U G#	2.5	Mandatory	A20	
0002	Project work	G U 3 4 5	5	Mandatory	A20	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Syllabus established

by Assistant Director of Undergraduate Studies Eva Gunneriusson, Department of Civil, Environmental and Natural Resources Engineering 2020-02-14