

SYLLABUS

eMaintenance from Data to Decision 7.5 credits D7010B

eUnderhåll från data till beslut

Course syllabus admitted: Spring 2018 Sp 3 - Spring 2021 Sp 4

**DECISION DATE
2017-11-02**

eMaintenance from Data to Decision 7.5 credits D7010B

eUnderhåll från data till beslut

Second cycle, D7010B

Education level
Second cycle

Grade scale
G U 3 4 5

Subject
Underhållsteknik

Subject group (SCB)
Other Subjects within Technology

Entry requirements

At least 60 ECTS in one of the following areas: Maintenance Engineering, Energy Engineering, Mechanical Engineering, Materials Science, Civil Engineering or equivalent, and a minimum of 15 ECTS in mathematics.

Selection

The selection is based on 30-285 credits

Examiner

Ramin Karim

Course Aim

This course will provide general knowledge on application of information and communication technology in electronic Maintenance (eMaintenance) for converting data to information for decision making by the management

Contents

- Maintenance process mapping
- Computerized Maintenance Management System (CMMS)
- Data collection from works orders, failure information and condition monitoring
- Data analysis and data to information
- Big Data management and Cloud Computing
- Information simulation for decision making

Realization

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

The teaching includes lectures, lessons, practices and laboratory work dealing with theory, methods and tools concerning eMaintenance applications. Project work with supervision is performed in groups. The students are trained using actual data.

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.

Assignments and laboratory work

Literature. Valid from Autumn 2016 Sp 1

Litterature will be given before course start

Course offered by

Department of Civil, Environmental and Natural Resources Engineering

Items/credits

Number	Type	Credits	Grade
0003	Assignemnt reports / Laboratory work	7.5	TG G U 3 4 5

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.

Last revised

by Assistant Director of Undergraduate Studies Eva Gunneriusson, Department of Civil, Environmental and Natural Resources Engineering 2017-11-02

Syllabus established

by Eva Gunneriusson 2016-01-19