

**SYLLABUS**

# **eMaintenance 7.5 credits**

## **D0013B**

**eUnderhåll**

**Course syllabus admitted: Autumn 2016 Sp 1 - Spring 2018 Sp 4**

DECISION DATE  
**2016-01-19**

# eMaintenance 7.5 credits D0013B

## eUnderhåll

### First cycle, D0013B

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

## Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language

## Selection

The selection is based on 1-165 credits.

## Examiner

Ramin Karim

## Course Aim

The course aims to provide the student with a basic understanding of maintenance systems from an IT perspective. Upon completion the student should be able to:

- On a fundamental level, describe eMaintenance and computerized maintenance management systems (CMMS).
- On a fundamental level, describe aspects related to maintenance systems, software architecture related to maintenance, database management related to maintenance and software development related to maintenance.
- To be able to give examples of, and explain, important parts of eMaintenance and CMMS.

## Contents

The course contains:

- Theories and tools for to systemize maintenance planning
- Foundational knowledge of eMaintenance and how modern IT solutions are used for maintenance
- Basic data modeling and SQL database
- RFID and application development
- Maintenance system

## Realization

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

The course consists of lectures, labs, assignment and quizzes. The course is given on campus with the opportunity to participate remotely. Compulsory attendance can be required.

## 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

## Literature. Valid from Autumn 2016 Sp 1

Compendium

## Course offered by

Department of Civil, Environmental and Natural Resources Engineering

## Items/credits

Number	Type	Credits	Grade
0001	Written exam	3.5	G U 3 4 5
0002	Compulsory group work/laboratory work	4	U G#

## 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 Eva Gunneriusson 2016-01-19

## Syllabus established

by Eva Gunneriusson 2014-02-13