

**SYLLABUS**

# **Thesis, Quality Engineering 15 credits K0017N**

**Projektarbete - Examensarbete i kvalitetsteknik, kandidat**

**Course syllabus admitted: Spring 2018 Sp 3 - Present**

**DECISION DATE  
2017-06-16**

# Thesis, Quality Engineering 15 credits K0017N

## Projektarbete - Examensarbete i kvalitetsteknik, kandidat

### First cycle, K0017N

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G#	Kvalitetsteknik	Industrial Engineering and Management

## 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

Rickard Garvare

## Course Aim

The aim of the course is for the student to practice, develop and show their ability to, in an adequate way, apply theory and method in order to solve unstructured problems relevant to professional activity as a quality engineer in the field of quality development.

Upon completion of the course the student shall be able to:

- Develop and formulate a relevant research problem from a selected subject in the area of quality development
- Utilize scientific studies and judge their relevance for the selected problem
- Manage different, and differences between, theoretical areas
- Carry out a motivated and relevant selection of theoretical foundation for the study
- Select and motivate specific research methods for the study with understanding of the impact on the final results of the study
- Collect relevant information for the study connected to selected theory and method
- In a relevant way present the collected information in written format
- Based on selected theory and method and in scientifically correct way analyze and draw conclusions concerning the selected research problem
- Evaluate the scientific and practical relevance of the results
- Perform written communication in a linguistically and scientifically correct manner
- Orally communicate the results of the study both to scholars in the area as well as to individuals without specific knowledge in the area
- Defend the results
- Critically evaluate other studies in a constructive and scientific manner

## Contents

The degree project is a study written by one or two students. The study shall utilize a scientific approach on a problem in the area of quality development. The study shall be presented both as a written report and in oral format. Each student shall also evaluate and perform opposition on degree project written by other students.

## Realization

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

The format of the course is individual supervision and seminars. At the start of course the student shall develop a planning report discussing the problem and the purpose as well as possible methods of the degree project. The course ends with the student presenting the study both as a written report and in oral format. The student also makes an opposition to another degree project in the subject area and attends an additional at least two seminars in which the degree project is presented. Supervision is provided within a period of one semester after first course registration.

## 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. In the written report the student shall demonstrate the ability to:

- Develop and formulate a relevant research problem from a selected subject in the area of quality development
- Utilize scientific studies and judge their relevance for selected problem
- Manage different, and differences between, theoretical areas
- Demonstrate a motivated and relevant selection of theoretical foundation for the study
- Select and motivate specific research methods for the study with understanding of impact on final result of the study
- Collect relevant information for the study connected to selected theory and method
- In a relevant way present the collected information in written format
- Based on selected theory and method and in scientifically correct way analyze and draw conclusions concerning the selected research problem
- Evaluate the scientific and practical relevance of the results
- Perform written communication in a linguistically and scientifically correct manner

In the oral presentation and opposition the student shall demonstrate the ability to:

- Orally communicate the results of the study both to scholars in the area as well as to individuals without specific knowledge in the area
- Defend the results

In the opposition the student shall demonstrate the ability to:

- Critically evaluate other studies in a constructive and scientific manner

To pass the course the student shall participate in compulsory meetings and seminars as well as register the thesis according to LTUs rules.

## Remarks

The course is only intended for student who do not intend to pursue their master degree in civil engineering and instead choose to finish their studies in the program with a bachelor's degree.

Students must register for the courses themselves or contact ETKS educational administration, [eduetks@ltu.se](mailto:eduetks@ltu.se) not later than three days after the quarter commences. Failure to do so can result in the place being lost. This rule also applies to students with a guaranteed place.

## Literature. Valid from Autumn 2011 Sp 2

Literature will depend on the character and focus of the thesis. Course literature will be selected by supervisor, examiner and participating students.

## Course offered by

Department of Business Administration, Technology and Social Sciences

## Items/credits

Number	Type	Credits	Grade
0001	Project work/Thesis work	15	U G#

## Last revised

by Director of Undergraduate Studies Daniel Örtqvist, Department of Business Administration, Technology and Social Sciences 2017-06-16

## Syllabus established

by Department of Business Administration and Social Sciences 2009-02-22