

SYLLABUS

Quality Management, Introduction course 7.5 credits K0001N

Kvalitetsutveckling, grundkurs

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2023-02-15**

Quality Management, Introduction course 7.5 credits K0001N

Kvalitetsutveckling, grundkurs

First cycle, K0001N

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	Kvalitetsteknik	Industrial Engineering and Management

Main field of study

Industrial and Management Engineering

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 and completed the course Mathematical Statistics (S0001M) 7,5 credits with at least the grade pass, or equivalent knowledge.

Selection

The selection is based on 1-165 credits.

Course Aim

After the course, the student should be able to:

- Describe how companies and other organizations can work with Quality Management, for instance by describing the values, methodologies and tools which Quality Management is based upon.
- Use a number of quality methodologies, for instance Design of Experiments, Statistical Process Control, Capability Analysis, Reliability calculations and Quality Function Deployment.
- Describe the principles of Quality Management Systems, how they are build up and how they are applied.

Contents

The quality concept, quality strategies and the development of quality philosophy. Furthermore design quality including Design of Experiments, Reliability analysis and Quality Function Deployment, production quality including Statistical Process Control and Capability Studies, service quality, leadership for quality and different management programs for quality improvements, such as Six Sigma and Lean.

Realization

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

Lectures, laboratory work, group exercises and/or individual assignments. Some elements may require compulsory attendance.

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. Written exam, group work and/or individual hand-ins and laboratory work. Grades are given on a scale U-3-4-5, where U means fail, and 5 is the highest grade.

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term “unauthorized aids” refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

Students must register for the courses themselves, or contact ETKS educational administration 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.

Overlap

The course K0001N is equal to IEK201

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Written exam	G U 3 4 5	4.5	Mandatory	A07	
0005	Laboratories and group assignment	U G#	3	Mandatory	A23	

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 Director of Undergraduate Studies Daniel Örtqvist, Department of Business Administration, Technology and Social Sciences 2023-02-15

Syllabus established

by Institutionen för Industriell ekonomi och samhällsvetenskap 2007-02-28