

SYLLABUS

Introduction to Lean 7.5 credits K0014N

Introduktion till Lean

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2023-02-15**

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Introduktion till Lean

First cycle, K0014N

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 + Swedish upper secondary school courses Mathematics 2a or 2b or 2c.

Selection

The selection is based on final school grades or Swedish Scholastic Aptitude Test.

Course Aim

After the course, the student should be able to:

- Describe the history of Lean.
- Describe important values and principles in the Lean philosophy.
- Describe commonly used Lean methods and tools.
- Apply a selection of Lean methods and methods for continuous improvement.
- Describe and discuss how companies and other organization can and should work with Lean, for example by suggesting how important Lean principles can be supported by methods and tools.
- Demonstrate the ability to search new and relevant information about Lean and relate it to an organization that the student is familiar with.
- Describe and discuss the connection between Lean and other forms of quality improvement work and improvement concepts.

Contents

The course covers values and important principles that characterize Lean implementation in organizations. The course gives a historic retrospect over the growth of the Lean concept from the Toyota production system to western interpretations of Lean. The course covers commonly used Lean tools and the student will apply a selection of these as part of the course. The course is not focused on any specific branch or industry; the literature has examples from both manufacturing and service organizations.

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 is Internet-based and teaching and learning material is available through LTU's teaching platform. There are no gatherings in Luleå. Please note that parts of the examination assignment normally are performed as group work. Group assignments are normally carried out in collaboration with real organizations. The teaching is made up of individual work based on the course literature the web-based material in the course. Part of the teaching can be held in English.

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. The examination includes individual web-based quizzes, project group work assignments examined through written reports, and a final individual home exam. The home exam is examined through a written report followed by an oral web-based examination with a teacher. Collaboration with other students is not allowed on individual examination tasks. The student must pass all course modules to pass the course.

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.

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0002	Quizzes	U G#	3	Mandatory	A23	
0003	Project work	U G#	3.5	Mandatory	A23	
0004	Take-home examination	U G#	1	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