

SYLLABUS

Industrial management 7.5 credits E0009N

Industriell organisation

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2023-02-15

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Industriell organisation

First cycle, E0009N

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	Industriell ekonomi	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 final school grades or Swedish Scholastic Aptitude Test.

Course Aim

Upon completion of the course the student shall be able to describe basic concepts and theories within the area of organizational theory, design and management as well as have insights in project management techniques. The student shall be able to use these concepts and theories in analysis of an industrial enterprise as well as critically apply gender and sustainability related perspectives in their analysis. Throughout the course content, the students should be able to demonstrate the ability to effectively present both verbally and in written form as well as critically evaluate different sources of information.

In particular, students should be able to:

- Describe what an organization is, demonstrate knowledge of foundational theories informing organisational design, and detail various perspectives on organizational design. Argue for why organizational design and management is relevant in the context of engineering.
- Outline and contrast different types of physical organizational structures and explain the influence of technological development on recent trends in organizational design.
- Specify the different attributes of internal organizational culture and external environment, and connect this to their role in organizational design.
- Account for innovation and change and their impact in how industrial activities are managed
- Be able to discuss attributes of technology-based business models and the dynamic of value creation, value delivery and value capture in industrial enterprises, including interaction with the value chain.
- Identify and name different types of projects, stages of a project, project roles, project management perspectives and project management tools.
- Apply a gender and sustainability-related perspectives to the analysis of industrial companies both in writing and in dialogue with others based on basic concepts and theories in the field of organizational theory and project management

Contents

The course covers fundamentals of organizational theory, design and management and basics of project management. Key outlined areas include organizing (organizational theory, physical structures, business model perspective), managing (culture and external environment, innovation and change) and project management (stages, approaches, techniques). The course content is situated in the context of industrial enterprises and has a special focus on understanding sustainability and gender related issues when analyzing organizations. The course also involves practical oral presentations and written assignments.

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, classroom exercises, seminars, and individual assignments. The student is expected to work independently with the course literature and other learning materials as well as to work in groups with other students. Compulsory attendance may apply under certain other learning activities. Teaching is to 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. Examination is accomplished through compulsory assignments, both verbally and in written format, to be done individually and in group.

The examination consists of:

- a) Multiple choice exam. The aim is to examine a broad understanding of the course content (organizational theory and design, project management and business models).
- b) Individual written exam (exam hall). The aim is to examine a deeper understanding of theoretical concepts presented during the course. The ability to present effectively in written form in English is also examined.
- c) Group assignment i.e., group report and presentation with questions and discussion. The aim is to examine the ability to work in teams, present orally and in writing in English and critically evaluate different sources of information.

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@itu.se, no 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.

Due to overlap, the course cannot be included in the degree together with E0006N, O0017N or other course with similar content.

Overlap

The course E0009N is equal to O0017N, E0006N

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0004	Multiple choice exam	G U 3 4 5	1.5	Mandatory	A23	
0005	Written exam	G U 3 4 5	3	Mandatory	A23	
0006	Group Assignment	G U 3 4 5	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 Director of Undergraduate Studies Daniel Örtqvist, Department of Social Sciences, Technology and Arts 2021-02-17