

SYLLABUS

Industrial Management with a Sustainability Perspective 7.5 credits G0010N

Industriell ekonomi med ett hållbarhetsperspektiv

Course syllabus admitted: Autumn 2024 Sp 1 - Present

**DECISION DATE
2024-02-14**

Industrial Management with a Sustainability Perspective

7.5 credits G0010N

Industriell ekonomi med ett hållbarhetsperspektiv

First cycle, G0010N

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	Industriell ekonomi	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

Selection

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

Course Aim

After completing the course, the student must be able to demonstrate **knowledge and understanding** of:

- How value-creating systems for industrial companies are structured and intended to function.
- How management, organization and business management models can be applied within industrial companies.
- The basics of and central terminology in the field of sustainable development.
- The basics of and central terminology in the field of gender equality.

After completing the course, the student must have the following **skills and abilities**:

- Be able to prepare relevant investment and product calculations as a basis for planning, analyzes, and financially sustainable decisions for and within industrial companies.
- Be able to calculate, analyze and draw conclusions about the financial performance and financial position of industrial companies based on accounting-based information.
- Be able to analyze and draw conclusions about various aspects of managing and conducting industrial business in relation to sustainable development.
- Be able to analyze and draw conclusions about how gender equality can affect operations, working methods, goods, services and results for industrial companies.
- Be able to present assigned course work orally as well as in writing in a well-structured and linguistically correct manner.

After completing the course, the student must be able to demonstrate the following assessment **skills and approach**:

- Be able to evaluate the credibility and relevance of financial calculations and other calculations that form the basis of analysis and decision-making for and within industrial companies.
- Be able to reason about how industrial management is relevant for the engineer in his/her professional role.

Contents

The course covers the basics in industrial management, with a specific emphasis on the importance of working with different aspects of sustainable development to operate the industrial organization. The course also covers how different aspects of gender equality affect operations. The entire operation of an industrial company is covered but the course has a special focus on understanding the financial accounting of the organization, sustainability aspects, and generating management information for decision making through different calculations.

Realization

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

The teaching consists of lectures, classroom exercises, video recordings, seminars, and lab assignments/calculation exercises. The student is expected to work independently with the course literature and learning material and to work in groups with other students. Compulsory attendance may apply during oral presentations of group work, seminars, and certain other teaching activities. Part of the teaching may 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 course's grading scale consists of steps U, 3, 4, 5.

For a passing grade (3) on the course, the student must show that the knowledge goals (see Goals/expected study results) have been achieved via the written exam and the examinations via written submissions, oral examinations and other examination.

The grading of a passing grade (3, 4, 5) is primarily determined by the written exam. The grade on the course may, if announced, be affected by the additional exams' completion. The result of additional examinations providing university credit can only affect the written exam result - and thus the final grade - of the written exam given at the ordinary examination period in the study period in which the student first registered for the course.

Students who fail a written examination that is not related to the written exam, get one (1) opportunity to complete the assignment during the current course round. During such circumstances, the assignment is examined during the regular examination period in the study period in which the student first registered for the course. If assignments are not completed within this time, the written part needs to be examined at another course round. This requires re-registration on the course, which can only be granted in cases of availability. Contact the responsible teacher for questions relating to examinations via written assignments and oral examinations.

If a student has missed a mandatory seminar for an oral examination, for whatever reason, but has completed the assignment in question, the student will be given the opportunity for an individual oral examination. This is offered during the exam periods in each term and during the re-examination period in August each year.

The student is responsible for booking this re-examination with the responsible teacher. The examiner and/or teacher in charge of the course has information on the available booking opportunities.

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.

The course replaces R0005N as a basic course in engineering education at Luleå University of Technology. The course cannot be included in the degree together with R0005N or other course with similar content due to overlap. Students who need to complete the course R0005N can contact the department that provides the course.

Overlap

The course G0010N is equal to R0005N

The module set has changed in the course starting autumn 2023. The new module set is given below. There is a time limit for the possibility to be re-examined on previous modules during the academic year 2023/2024. Students have received an e-mail with information on these possibilities in September and December 2023.

Students missing modules 0001 or 0008 (final written exam):

Re-examination possibilities are in October 2023, March 2024 and August 2024. Students who have not passed the final exam after these occasions need to apply for re-registration on the course, by contacting the education administration, to be able to take the final exam (module 0009, 5 credits). Re-registration is granted subject to availability.

Students missing modules 0003, 0004, 0005 or 0006:

The possibility to complete these modules exists during the re-examination period linked to lp1, 2023, as well as the re-examination period linked to lp3, 2024 and the re-examination period in August 2024. Students who have not completed the modules after these re-examination occasions need to apply for re-registration to complete the course. After re-registration, the student will need to follow the new module set of the course. However, a student who has completed module 0002 and/or module 0007 previously does not need to retake these parts of the course. Re-registration is granted subject to availability.

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0002	Sustainable development - Seminars/assignments	U G#	1	Mandatory	A19	
0007	Gender equality - Seminars/assignments	U G#	1.5	Mandatory	A22	
0009	Written exam	G U 3 4 5	5	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 Social Sciences, Technology and Arts 2024-02-14

Syllabus established

by Director of Undergraduate Studies Daniel Örtqvist, Department of Business Administration, Technology and Social Sciences 2019-02-18