

Corporate Sustainability Management

Programme course

6 credits

Hållbar utveckling och företagande

TKMJ51

Valid from: 2019 Spring semester

Determined by

Board of Studies for Industrial
Engineering and Logistics

Date determined

2018-08-31

Main field of study

Energy and Environmental Engineering, Industrial Engineering and Management

Course level

First cycle

Advancement level

G1X

Course offered for

- Master of Science in Industrial Engineering and Management - International
- Master of Science in Industrial Engineering and Management

Specific information

May not be included in the same degree as TKMJ15, TKMJ24 or TKMJ28.

Prerequisites

General technical/engineering knowledge from the first year at an institute of technology, and chemistry at high school level.

Intended learning outcomes

Students shall develop knowledge of corporate sustainability management, focusing on companies but also including public organizations. The course deals with important societal conditions that affect sustainability issues and how they should be managed. A main aim is to gain knowledge about strategies and tools that are important concerning sustainability management. After having completed this course, the student shall be able to:

- Describe essential sustainability challenges that have been presented during the course; their causes, effects, and on an overall level how they have developed over time and plausible/possible future scenarios,
- Apply the above mentioned knowledge by solving reality based case studies, focusing on environmental problems, technical systems and organizations,
- Describe important strategies, concepts, methods and other 'components' of organizations' sustainability management, clarify how they are related to one another, and motivate why they are important from a company and societal perspective,
- Describe sustainability management as mentioned above, but also how the design and appliance of the components affect the effectiveness and efficiency of the sustainability work - especially for common components of corporate sustainability management systems,
- Describe important requirements, drivers and barriers for companies', and partially other organizations', sustainability management, and how these can be handled,
- Apply the knowledge above in making a critical analysis, on an overall level, of companies'/organizations' chosen strategies and measures to manage sustainability issues, for example, considering their impact, internal and market conditions,
- To motivate and propose relevant measures for companies/organizations concerning their sustainability management, and
- Write about corporate sustainability management (focusing on the course content and the studied organization) in English of good quality, within the frames of a technical report applying a scientific approach.

Course content

There are three main parts in the course:

1. Introduction to sustainable development
2. Corporate sustainability intelligence
3. Corporate sustainability management

The following key words represent essential parts of the content: sustainable development; environmental problems/challenges; environmental history; technical systems and environmental challenges; sustainability and policy/legislation; environmental economics; ethics, business ethics; corporate sustainability management, corporate social responsibility (CSR); tools for sustainability management; sustainability management systems; commercial sustainability management; sustainable business models; organization, learning and development.

Teaching and working methods

A central part is focused on an overview of corporate sustainability management, introducing central concepts and terms. For this purpose, lectures and literature are essential. There are two mandatory assignments, as a complement, to foster student activity and application. These assignments are carried out in groups. The assignments include describing companies' sustainability characteristics (UPG1) and analyzing their sustainability management (UPG2). Both assignments involve written and/or oral presentation, the second also in English. To facilitate and be able to assess the efforts, compulsory scheduled activities and tasks are included (such as seminars, supervision, presentation) and self-assessment.

Examination

TEN1	Written examination	3.5 credits	U, 3, 4, 5
UPG3	Group assignment	2.5 credits	U, G

Grades

Four-grade scale, LiU, U, 3, 4, 5

Other information

Supplementary courses:

Industrial Ecology, Resource efficient products, Biofuels for transportation, and others.

Department

Institutionen för ekonomisk och industriell utveckling

Director of Studies or equivalent

Carina Sundberg

Examiner

Pontus Cerin

Education components

Preliminary scheduled hours: 38 h

Recommended self-study hours: 122 h

Course literature

Ammenberg, J., 2012, Miljömanagement. Studentlitteratur. Lund.

Common rules

Course syllabus

A syllabus has been established for each course. The syllabus specifies the aim and contents of the course, and the prior knowledge that a student must have in order to be able to benefit from the course.

Timetabling

Courses are timetabled after a decision has been made for this course concerning its assignment to a timetable module. A central timetable is not drawn up for courses with fewer than five participants. Most project courses do not have a central timetable.

Interrupting a course

The vice-chancellor's decision concerning regulations for registration, deregistration and reporting results (Dnr LiU-2015-01241) states that interruptions in study are to be recorded in Ladok. Thus, all students who do not participate in a course for which they have registered must record the interruption, such that the registration on the course can be removed. Deregistration from a course is carried out using a web-based form: www.lith.liu.se/for-studenter/kurskomplettering?l=sv.

Cancelled courses

Courses with few participants (fewer than 10) may be cancelled or organised in a manner that differs from that stated in the course syllabus. The board of studies is to deliberate and decide whether a course is to be cancelled or changed from the course syllabus.

Regulations relating to examinations and examiners

Details are given in a decision in the university's rule book:
<http://styrdokument.liu.se/Regelsamling/VisaBeslut/622678>.

Forms of examination

Examination

Written and oral examinations are held at least three times a year: once immediately after the end of the course, once in August, and once (usually) in one of the re-examination periods. Examinations held at other times are to follow a decision of the board of studies.

Principles for examination scheduling for courses that follow the study periods:

- courses given in VT1 are examined for the first time in March, with re-

examination in June and August

- courses given in VT2 are examined for the first time in May, with re-examination in August and October
- courses given in HT1 are examined for the first time in October, with re-examination in January and August
- courses given in HT2 are examined for the first time in January, with re-examination at Easter and in August.

The examination schedule is based on the structure of timetable modules, but there may be deviations from this, mainly in the case of courses that are studied and examined for several programmes and in lower grades (i.e. 1 and 2).

- Examinations for courses that the board of studies has decided are to be held in alternate years are held only three times during the year in which the course is given.
- Examinations for courses that are cancelled or rescheduled such that they are not given in one or several years are held three times during the year that immediately follows the course, with examination scheduling that corresponds to the scheduling that was in force before the course was cancelled or rescheduled.
- If teaching is no longer given for a course, three examination occurrences are held during the immediately subsequent year, while examinations are at the same time held for any replacement course that is given, or alternatively in association with other re-examination opportunities. Furthermore, an examination is held on one further occasion during the next subsequent year, unless the board of studies determines otherwise.
- If a course is given during several periods of the year (for programmes, or on different occasions for different programmes) the board or boards of studies determine together the scheduling and frequency of re-examination occasions.

Registration for examination

In order to take an examination, a student must register in advance at the Student Portal during the registration period, which opens 30 days before the date of the examination and closes 10 days before it. Candidates are informed of the location of the examination by email, four days in advance. Students who have not registered for an examination run the risk of being refused admittance to the examination, if space is not available.

Symbols used in the examination registration system:

** denotes that the examination is being given for the penultimate time.

* denotes that the examination is being given for the last time.

Code of conduct for students during examinations

Details are given in a decision in the university's rule book:
<http://styrdokument.liu.se/Regelsamling/VisaBeslut/622682>.

Retakes for higher grade

Students at the Institute of Technology at LiU have the right to retake written examinations and computer-based examinations in an attempt to achieve a higher grade. This is valid for all examination components with code "TEN" and "DAT". The same right may not be exercised for other examination components, unless otherwise specified in the course syllabus.

Retakes of other forms of examination

Regulations concerning retakes of other forms of examination than written examinations and computer-based examinations are given in the LiU regulations for examinations and examiners,

<http://stydokument.liu.se/Regelsamling/VisaBeslut/622678>.

Plagiarism

For examinations that involve the writing of reports, in cases in which it can be assumed that the student has had access to other sources (such as during project work, writing essays, etc.), the material submitted must be prepared in accordance with principles for acceptable practice when referring to sources (references or quotations for which the source is specified) when the text, images, ideas, data, etc. of other people are used. It is also to be made clear whether the author has reused his or her own text, images, ideas, data, etc. from previous examinations.

A failure to specify such sources may be regarded as attempted deception during examination.

Attempts to cheat

In the event of a suspected attempt by a student to cheat during an examination, or when study performance is to be assessed as specified in Chapter 10 of the Higher Education Ordinance, the examiner is to report this to the disciplinary board of the university. Possible consequences for the student are suspension from study and a formal warning. More information is available at <https://www.student.liu.se/studenttjanster/lagar-regler-rattigheter?l=sv>.

Grades

The grades that are preferably to be used are Fail (U), Pass (3), Pass not without distinction (4) and Pass with distinction (5). Courses under the auspices of the faculty board of the Faculty of Science and Engineering (Institute of Technology) are to be given special attention in this regard.

1. Grades U, 3, 4, 5 are to be awarded for courses that have written examinations.
2. Grades Fail (U) and Pass (G) may be awarded for courses with a large degree of practical components such as laboratory work, project work and group work.

Examination components

1. Grades U, 3, 4, 5 are to be awarded for written examinations (TEN).
2. Grades Fail (U) and Pass (G) are to be used for undergraduate projects and other independent work.

3. Examination components for which the grades Fail (U) and Pass (G) may be awarded are laboratory work (LAB), project work (PRA), preparatory written examination (KTR), oral examination (MUN), computer-based examination (DAT), home assignment (HEM), and assignment (UPG).
4. Students receive grades either Fail (U) or Pass (G) for other examination components in which the examination criteria are satisfied principally through active attendance such as other examination (ANN), tutorial group (BAS) or examination item (MOM).

The examination results for a student are reported at the relevant department.

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.