Management Systems and Sustainability

Programme course

6 credits

Management Systems and Sustainability

TKMJ28

Valid from: 2017 Spring semester

Determined by
Board of Studies for Mechanical Engineering and Design

Date determined
2017-01-25

Offered for the last time
Autumn semester 2020

Main field of study
Energy and Environmental Engineering

Course level
Second cycle

Advancement level
A1X

Course offered for
- Industrial Engineering and Management, Master's Programme
- Sustainability Engineering and Management, Master's Programme
- Mechanical Engineering, M Sc in Engineering

Entry requirements
Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Prerequisites
Admission to master level studies. The course LArge Technical Systems (or corresponding).Basic knowledge of business organizations and sustainability.

Intended learning outcomes
The course will provide the student with knowledge of strategies,tools and approaches for effective corporate sustainability management and of how these can be used in a systematic way. After successful completion of the course the student should be able to:

- Probleamtize the adoption of sustainable development concepts in the business sector.
- Critically reflect on what different tools for corporate sustainability management can contribute with to a company's sustainability management efforts.
- Explain different drivers for corporate sustainability management of sustainability,such as legislation and stakeholder interests.
- Analyze sustainability strategies of an existing company.
- Discuss the relations between corporate management of sustainability and competitiveness.

Course content
Subjects included are: Corporate environmental and sustainability management. Environmental management systems. Quality management systems. Instruments for integrated corporate management of sustainability. Basic environmental economics.

Teaching and working methods
The course consists of three parts. Theories of corporate management and sustainability are presented at lectures. These theories are used in a group assignment with the aim to analyze sustainability strategies of an existing company. The group assignment is presented in a written report and an oral presentation. Supervision seminars are used to support the group assignment. Further case studies are discussed and exercises are performed at seminars.

Examination

UPG2	Seminars and Exercises	1 credits	U, G
UPG3	Group assignment, presented at seminar and in written report	2 credits	U, G
TEN2	Written examination	3 credits	U, 3, 4, 5

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

Other information
Supplementary courses: Industrial Ecology, Resource Efficient Products, Biofules for Transportation.

Department
Institutionen för ekonomisk och industriell utveckling

Director of Studies or equivalent
Niclas Svensson

Examiner
Sara Gustafsson

Course website and other links

http://www.iei.liu.se/envtech/utbildning?l=sv&sc=true

Education components

Preliminary scheduled hours: 42 h
Recommended self-study hours: 118 h

Course literature

Kurslitteraturen kommer att annonseras på kursens hemsida vid kursstart.

Common rules

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.