

SYLLABUS

Sustainable development 7.5 credits L0010N

Hållbar utveckling

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2020-02-14**

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Hållbar utveckling

First cycle, L0010N

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	Miljöledning	Industrial Engineering and Management

Main field of study

Industrial and Management Engineering, Natural Resources Engineering, Architecture

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 Physics 1b1 or 1a, 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 have acquired the ability to;

- describe the life-support and resource generation structures and functions of the ecosystem
- outline the significant environmental problems and explain its short and long term effects
- describe and critically relate to the concept of sustainable development
- describe and discuss environmental policy instruments in the fields of environmental economics, environmental politic and environmental law
- explain how companies meet society's needs with the use of environmental tools
- discuss the responsibility of the companies and their role for sustainable development, for example aspects regarding ethics, corruption, environment and equality
- understand the role of technology as problem solver and as creator of problems from a perspective of sustainable development

Contents

- Basic ecology (including ecosystem structures and functions)
- Local, regional and global environmental problems and its impact on the environment in the short and long term
- Background to the concept of sustainable development and the interplay and conflicts between the components of sustainable development
- Introduction to environmental economics (including environmental and energy policy instruments)
- Introduction to environmental law
- Corporate environmental and sustainability efforts with an emphasis on environmental management systems (ISO 14001) and sustainable product development (life cycle assessment, LCA)
- Corporate Social Responsibility (CSR)

Realization

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

Lectures and seminars.

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. Written exam and written and oral presentations at seminars.

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

The course can not be included in a degree together with the course V0015B, Sustainable Building. Students must register for the courses themselves, or contact the 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.

Overlap

The course L0010N is equal to V0015B

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Seminars	U G#	2.5	Mandatory	S11	
0002	Written exam	G U 3 4 5	5	Mandatory	S11	

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 2020-02-14

Syllabus established

by Head of the Department of Business Administration and Social Sciences 2010-02-19