

SYLLABUS

Environmental and energy management 7.5 credits K0022N

Miljö- och energiledning

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2023-02-15**

Environmental and energy management 7.5 credits K0022N

Miljö- och energiledning

First cycle, K0022N

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	Miljöledning	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 and completed courses of at least 60 credits, with at least the grade Pass. This must include 15 credits in the subject area Industrial engineering and management, for example: Industrial management with a sustainability perspective (G0010N) 7,5 credits, Sustainable development (L0010N) 7,5 credits, Ecology and environmental science (N0005P) 7,5 credits, Law for engineering students (J0051N) 7,5 credits, or equivalent knowledge.

Selection

The selection is based on 1-165 credits.

Course Aim

The aim of the course is to develop the students' knowledge on essential parts of environmental and energy management of industrial companies and other organisations. The course should lead to knowledge of the strategies and methods that are essential for environmental and energy management.

After completing the course, the student should be able to:

Knowledge and understanding

- Describe societal expectations and the strategies and methods that are essential for environmental and energy management and have an understanding of its applications.

Competence and skills

- Be able to independently develop the planning phase of an environmental and energy management system in accordance with international standards
- Be able to develop steering documentation independently and as part of a group
- Be able to plan, carry through and report environmental and energy audits independently and as part of a group
- Carry out simpler energy reviews in accordance with current legislation and standards
- Carry out emission calculations and report emissions of greenhouse gases

Judgement and approach

- Propose well-motivated environmental and energy-related management tools for industrial companies' strategic and operational environmental and energy management.

Contents

The course provides in-depth knowledge in working strategically and operationally with environmental and energy aspects in industrial companies and other organizations. The focus is on developing efficient and structured environmental and energy management using various environmental and energy-related management tools. The course is based on research in the field and societal expectations in the form of global agreements, national policy instruments and international standards. Through practical application in real companies, the student is trained in designing central system elements in environmental and energy management systems as well as in planning, carry through and reporting environmental and energy audits. The course also includes application of methods for energy review as well as emission calculation and reporting of greenhouse gases. The course is continuously examined orally and in writing.

Realization

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

Teaching takes place in the form of lectures, group assignments and seminars. Practical cases are presented during guest lectures. Group assignments is presented orally and in writing. Mandatory attendance in certain parts of the course. The course is given in Swedish.

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, 4,0 credits, rating scale U, 3, 4, 5

Group assignments, 3,5 credits, rating scale U eller G

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.

Due to overlap, the course cannot be included in the degree together with L0001N or other course with similar content.

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Written exam	G U 3 4 5	4	Mandatory	A23	
0002	Group assignments	U G#	3.5	Mandatory	A23	

Syllabus established

by Director of Undergraduate Studies Daniel Örtqvist, Department of Business Administration, Technology and Social Sciences 2023-02-15