

SYLLABUS

Ergonomics 2 7.5 credits

A7013A

Ergonomi 2

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2022-02-11

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Ergonomi 2

Second cycle, A7013A

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Arbetsvetenskap	Work Science and Ergonomics

Entry requirements

Completed courses of at least 120 credits, with at least the grade Pass. This must include the following courses: Ergonomics 1 (A0015A) 7,5 credits and Human-Machine-Interaction (D0055A) 7,5 credits, or equivalent knowledge.

Selection

The selection is based on 30-285 credits

Course Aim

- The student shall show knowledge of ergonomics
- Demonstrate knowledge of human factors
- Prove knowledge of work physiology
- Prove the ability to design work, workplaces, equipment, products, systems and processes based on ergonomic aspects
- Show competence in evaluation, analysis and implementation of ergonomic methods
- The student shall demonstrate values in implementation of social, economic, ecological and work environmental aspects in evaluation and development work

Contents

The theoretical framework for the course consist of human factors, physical ergonomics and organisation theory. The theory is applied in a project where we analyse work and work environments through methods based on critical root cause analysis. In the course we also apply and explore methods for user-centered design and participation ergonomics, and you will get the chance to practice methods to include users in the design process during the course. The aim of the course is to increase the students skills in assessing and designing equipment, workplaces, products and processes with human needs and abilities in focus.

Realization

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

Through lectures, a literature seminar and a project you will have the opportunity to develop your knowledge of ergonomics, human factors, organisation theory and user-centered design. The project runs throughout the course and is initially carried out in groups and finishes individually where you get the chance to develop and challenge your problem solving ability. In the project we focus on root cause analysis and methods for user participation and participatory ergonomics.

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 is examined through a two-part project work in which the second part is conducted in groups and the second part is conducted individually. Both parts should be presented both in writing and orally. The course is also examined through an individual reflective assignment on the project work and the own learning in the course.

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 to the courses themselves or contact the ETKS educational administration not later than three days after the quarter commences. Failure to do so can result in the place being lost. This also applies to the students with a place guarantee. Contact: ETKS educational administration eduetks@ltu.se.

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0004	Project work in group	U G#	3	Mandatory	A19	
0005	Project work individually	G U 3 4 5	3.5	Mandatory	A19	
0006	Individual reflection	G U 3 4 5	1	Mandatory	A19	

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 2022-02-11

Syllabus established

by Director of Undergraduate Studies Bo Jonsson, Department of Business Administration, Technology and Social Sciences 2014-02-14