COURSE SYLLABUS

Industriell ergonomi A1N
Industrial Ergonomics A1N
6 credits

Course Code: VP706A
The Course Syllabus is valid from: 1 July 2020
Date of Approval: 3 February 2020
Version Number: 3.1

Subject: Virtual Product Realization
Main Field of Study: Virtual Product Realization
Disciplinary Domain: Technology
Academic Level: Advanced level

1 Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Industrial Ergonomics A1N. It comprises 6 credits and is on advanced level. The level of progression of the course is A1N.

2 Objectives
After completed course the student should be able to:

Knowledge and Understanding

- explain how ergonomics and different user aspects can be integrated into the product realisation process,
- identify and describe current research topics in the field of ergonomics,

Competence and Skills

- use ergonomic knowledge and computer-aided tools to design virtual and real user tests and experiments to evaluate products, environments and systems,
- analyse data from ergonomic surveys to evaluate products, environments and systems,

Critical Judgement and Approach

- analyse, discuss and reflect about the need to integrate ergonomics and user aspects into the product realisation process.

3 Course Content
The course addresses applications of ergonomics in industrial environments and how different types of user aspects can be integrated into the product realisation process. In order to demonstrate the breadth and depth of the interdisciplinary subject of ergonomics, the course discusses current research issues. Furthermore, the course also deals with objective and subjective evaluation methods as well as simulation and observational methods, but also methodology for enabling user-centred design of products, workplaces and systems.

4 Forms of Teaching
The teaching comprises lectures, laboratory sessions, presentations and seminars/group discussions.

The teaching is conducted in English.

5 Examination
The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

Registration of examination results:

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual assignment</td>
<td>3 credits</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Laboratory assignment</td>
<td>3 credits</td>
<td>G/U</td>
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</tbody>
</table>

1 Determines the final grade of the course.

Students with a permanent disability who have been approved for special educational support may be offred adapted or alternative examinations.
6 Admission Requirements
The prerequisite for this course are a Bachelor degree of at least 180 higher education credits within the fields of integrated product development, production engineering, mechanical engineering or information technology or similar.

A further requirement is proof of skills in English equivalent of studies at upper secondary level in Sweden, known as English course 6 / English course B. This is normally demonstrated by means of an internationally recognized test, e.g. IELTS, TOEFL or the equivalent.

7 Subject, Main Field of Study and Disciplinary Domain
The course forms a part of the academic subject area of Virtual Product Realization. The course is a part of the main field of study in Virtual Product Realization at the University of Skövde. The disciplinary domain of the course is Technology.

Every course at the University of Skövde belongs to a subject. The division of subjects is used for follow-up and quality assurance. A main field of study is an area in which a degree can be awarded. Disciplinary domain is a division which is used by the government for the allocation of resources for studies at basic level and advanced level.

8 Approval of Course and Course Syllabus
The course was approved by the Curriculum Committee for Engineering Science on 5 February 2018. This course syllabus was approved by the Curriculum Committee for Engineering Science on 3 February 2020. It is valid from 1 July 2020 and replaces the course syllabus approved 5 February 2018.

9 Overlapping with Another Course
This course cannot constitute a part of a degree also containing a course the content of which is totally or partly equivalent to the content of this course.

10 Additional Information
Further information will be available on the university’s website before a course is given.

National and local regulations for higher education are available on the university’s website.

Upon completion of the course there will be a follow-up. The main purpose of this follow-up is to contribute to improvements of the course. The students’ experiences and views constitute one of the criteria for the follow-up and are gathered by means of course evaluations. The students will be informed of the results of the follow-up and any decisions regarding actions that are to be taken.

11 Course Literature and Other Educational Materials

Articles, reports and manuals made available at course start.

Reference literature
