Syllabus for

Academic year 2009/2010 >

PPU095 - Project

Syllabus is not yet adopted
Owner: MPDES
15,0 Credits
Grading: TH - Five, Four, Three, Not passed
Education cycle: Second-cycle
Major subject: Industrial Design Engineering
Department: 44 - PRODUCT AND PRODUCTION DEVELOPMENT

Teaching language: English
Maximum participants: 40

Credit distribution

Course module	Sp1	Sp2	Sp3	Sp4	Summer course	Examination dates
0107 Project 15,0 c Grading: TH			7,5 c	7,5 c		

In programs
MPDES INDUSTRIAL DESIGN ENGINEERING, MSC PROGR, Year 1 (compulsory)

Examiner:
Tekniklektor Örjan Söderberg
Tekniklektor Ralf Rosenberg

Eligibility:
For single subject courses within Chalmers programmes the same eligibility requirements apply, as to the programme(s) that the course is part of.

Aim
The aim of the course is that the student should develop further knowledge and increased professionalism within the specific field of studies - industrial design engineering. Specifically the aim is that the student develops further knowledge in how to handle an industrial design engineering problem, in terms of organising, executing and completing a development project.

Learning outcomes *(after completion of the course the student should be able to)*
- collect and use the relevant information needed for solving an industrial design engineering problem - choose and employ the relevant theories, methods and tools for different stages of the development process. This means to be able to - choose and use methods for project planning - choose and employ methods for idea generation and assessment, concept development and assessment, as well as for detailed design - choose and use, in an efficient and professional manner, different methods and tools for communication - in order to solve the problem, apply and integrate relevant theoretical knowledge in engineering design (mechanics, materials technology, and production technology), in industrial design (basic design, formal aesthetics) and ergonomics/human factors - handle and harmonise different types of requirements: technical, ergonomic, communicative (incl aesthetic) - be able to analyse and reflect upon the process and the result

-basics in IPR

Content
The development project is to be carried out with support from existing theories, methods and tools for innovative product development. The project will encompass planning, executing as well as documenting and communicating the project and the project results. Reflection on results as well as progress is an essential part of the course. The use of relevant methods and tools in different stages of the development process is important. This also includes methods and tools (computer based and other) for visualising and communicating design ideas and solutions. Lectures/seminars on relevant topics will be given. Such topics could include e.g., group/team work or project organisation. The project will be supervised by competences from the university (lecturers) as well as from industrial partners (where possible).

six lectures about IPR and one examination excersice

Organisation
The course is organised as a group assignment in terms of a product development project. The project should (but may not necessarily) be run in cooperation with an industry. However, lectures/seminars on specific topics, more or less project

dependent, will complement the project task.

Literature

compendium about Intelectuall Properity Rigths

Examination

TH - Fail, 3, 4 or 5. The project will be assessed in terms of process progress, project result, and presentation (written report and oral presentation).