Syllabus for

Academic year 2012/2013 >

PPU090 - Industrial design engineering: theory and methodology

Syllabus adopted 2012-02-15 by Head of Programme (or corresponding)
Owner: MPDES
7,5 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
Block schedule: C

Course module				Credit distribution						Examination dates
				Sp1	Sp2	Sp3	Sp4	Summer course	No Sp	
0107	Written and oral assignments	7,5 c	Grading: TH	7,5 c						

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

Examiner:
Professor MariAnne Karlsson

Theme:
MTS 5,0 hec

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 of the theories, processes and methods that characterize product development work.

Learning outcomes *(after completion of the course the student should be able to)*

- describe and discuss the opportunities and barriers associated with cross-cultural and cross-disciplinary product development work;
- describe, discuss the similarities and differences between the processes, methods and tools that characterize industrial design, design engineering and human factors design respectively and analyse the consequences for product development and design;
- describe the differences between research for, on and through design and apply the categorisation to descriptions of research work;
- describe a model/theory of the student's own choice and draw conclusions as to its relevance for product development and design work;

Content
The content of the course encompasses the following topics:
- processes, staffing, methods and tools;
- cross-disciplinary product development;
- cross-cultural product development;
- research traditions and state-of-the-art;
- research on, for and by design;
- theories of relevance for industrial design engineering

Organisation
The course is organized as a series of lectures, seminars and exercises/assignments.

Literature
See course home page

Examination

Examination of the course is based on participation in seminars and the completion of exercises/written assignments. Participation in seminars will result in a Fail/Pass. Each exercise/assignment will receive a grade F(ail), 3, 4, or 5. The final grade F(ail), 3, 4 or 5 will be based on an average of the results of the individual exercises.