



COURSE SYLLABUS

Kreativitet för produkt- och tjänstutveckling

Creativity for Product- and Service Development

7,5 ECTS credit points (7,5 högskolepoäng)

Course code: MT2546
Educational level: Advanced level
Course level: A1N
Field of education: Technology
Subject group: Mechanical Engineering

Subject area: Mechanical Engineering
Version: 5
Applies from: 2016-08-29
Approved: 2016-06-16
Replaces course syllabus approved: 2010-10-29

1 Course title and credit points

The course is titled Creativity for Product- and Service Development/Kreativitet för produkt- och tjänstutveckling and awards 7,5 ECTS credits. One credit point (högskolepoäng) corresponds to one credit point in the European Credit Transfer System (ECTS).

2 Decision and approval

This course is established by 2016-06-16. The course syllabus was revised by Head of Department of Mechanical Engineering and applies from 2016-08-29.
Reg.no: BTH-2.4.2-0233-2016.
Replaces MT2531.

3 Objectives

The aim of the course is that student will gain:

- Deepened understanding for and experience of methods and tools that promote creativity, for use in the early phases of the product-service development process.
- Deepened understanding for and experience of methods and tools for identification of user needs and assessment of how these relate to general human needs.
- Experience of designing, building and testing prototypes based on conceptual ideas.
- Basic knowledge about how to plan and manage creativity sessions in organizations.

4 Content

The course includes:

- Methods and tools for creative problem solving for product-service development and examples of business models related to specific design challenges.
- Methods and tools for identification and assessment of user needs.
- Creativity related group dynamics and basics for planning and managing of creative thought

processes.

5 Aims and learning outcomes

Knowledge and understanding

On completion of the course the student will:

- demonstrate deepened knowledge on how to independently plan and implement creativity sessions using creativity methods and tools for the development of products and services in organizations.

Competence and skills

On completion of the course the student will:

- demonstrate ability to select and apply methods and tools for need identification and need assessment and also identify innovation opportunities.
- demonstrate ability to identify sustainability challenges and apply methods and tools for creative problem solving to find adequate solutions to such challenges.

Judgement and approach

On completion of the course the student will:

- demonstrate ability to independently identify, assess and prioritize methods and tools for working with specific design challenges.
- demonstrate ability to evaluate products and services from a sustainability perspective.

6 Learning and teaching

The student learns through a combination of lectures, workshops, readings, group work and reflections. The course has a focus on student-led projects which are supported by lectures, workshops and presentations during the course. All students write an individual reflection journal and participate in group assignments that results in a portfolio of finalized tasks.
The teaching language is English.

7 Assessment and grading

Examination of the course

Code	Module	Credit	Grade
1610	Project	6 ECTS	A-F
1620	Reflection	1.5 ECTS	A-F

The course will be graded A Excellent, B Very good, C Good, D Satisfactory, E Sufficient, FX Insufficient, supplementation required, F Fail. The final grade is weighed together linearly based on the credit points and grades of the respective moment. If grade FX are given, the student may after consultation with the examiner get an opportunity to within 6 weeks complement the grade to an E for the specific course moment.

8 Course evaluation

The course coordinator is responsible for systematically gathering feedback from the students in course evaluations and making sure that the results of these feed back into the development of the course.

9 Prerequisites

At least 180 ECTS credit points of university study, or the equivalent, is required. English B (English 6) with a minimum score of IELTS 5,0 or TOEFL 500 is required. The student must also have completed, or concurrently be enrolled in, a 6 ECTS course in strategic sustainable development, e.g., the course Introduction to Strategic Sustainable Development, or a similar course.

10 Field of education and subject area

The course is part of the field of education and is included in the subject area Mechanical Engineering.

11 Restrictions regarding degree

The course cannot form part of a degree with another course, the content of which completely or partly corresponds with the contents of this course.

12 Course literature and other teaching material

Provided articles and other materials.

The main course book is:

Kelley, T. and Kelley, D., 2013. Creative confidence: Unleashing the creative potential within us all. Crown Business.

