



Course syllabus

Faculty of Arts and Humanities
Department of Design

4DI700 Lokal innovation, 22,5 högskolepoäng
Local Innovation, 22.5 credits

Main field of study

Design

Subject Group

Design

Level of classification

Second Level

Progression

A1N

Date of Ratification

Approved by Faculty of Arts and Humanities 2014-07-18
The course syllabus is valid from autumn semester 2014

Prerequisites

General entry requirements for studies on second level, and specific entry requirements: 90 credits within the main field of Business Administration (including a Degree Project of at least 15 credits) or the equivalent, English B/English 6 or the equivalent

Objectives

Module 1: Interdisciplinary Innovation Processes, 5 credits

After finished course, the student is expected to be able to:

- formulate a problem statement, search out, gather, and, with criticism of the sources, examine information within relevant fields of theory
- describe an innovation process from idea to implementation
- establish and, both orally and in writing, account for decision support regarding a sustainable innovation process
- constructively contribute to the implementation of an idea, based on his/her field of competence, in a team containing a number of different disciplines
- discuss the connections between the contributions of different fields of competence in an interdisciplinary project
- plan and carry out an innovative interdisciplinary process

Module 2: Leading Process - Design, 5 credits

After finished course, the student is expected to be able to:

- lead a project with a number of participating disciplines on the project team
- communicate and assess the discipline's basis, approach, and methods to other team members

- take responsibility for the development of an innovation that lives up to the demand for sustainable development
- identify and discuss the local conditions for innovation in the immediately surrounding society from a design perspective
- critically examine the concept of innovation and its process from the design perspective

Module 3: Process - Engineering, 5 credits

After finished course, the student is expected to be able to:

- constructively and actively contribute in a team where different disciplines are involved in an engineering process
- account for and discuss the concept of engineering and the general features of the engineering process in relation to one's own discipline
- use engineering tools for supporting the innovation process
- form a technical solution that lives up to the demand for sustainable development
- identify and discuss the local conditions for innovation in the immediately surrounding society from an engineering perspective
- examine the concept of innovation and its process from an engineering perspective

Module 4: Process - Business Administration, 5 credits

- constructively and actively contribute in a team where different disciplines are involved in a creative process
- account for and discuss the concept of business administration and the general features of the business administration process in relation to one's own discipline
- implement the business administration tools in an interdisciplinary project
- identify and account for consequences of the artefacts' significance in society
- form an artefact that lives up to the demand for sustainable development
- identify and discuss the local conditions for innovation in the immediately surrounding society from a business administration perspective
- examine the concept of innovation and its process from a business administration perspective

Module 5: Skill and Technology, 2.5 credits

After finished course, the student is expected to be able to:

- account for dialogue seminar method and be able to take part in dialogue seminars in a constructive way
- write essays
- profoundly understand his/her own profession using critical reflection through perspectives given in the course literature

Content

The course consists of 5 different modules:

Module 1 Interdisciplinary Innovation Processes 5 credits

The course consists of the following parts:

- interdisciplinary project work
- the design process
- sustainable development
- the innovation concept
- integrated market communication
- calculation and forecasting
- supply chain

- choice of material
- blueprint/product specification
- construction aspects

Module 2 Leading Process - Design 5 credits

The course consists of the following parts:

- project management in an innovation project
- communication of the discipline's basis, approach and methods
- sustainable development
- innovation process

Module 3 Process - Engineering 5 credits

The course consists of the following parts:

- local innovation processes
- projects to develop technology
- choice of material
- blueprint/Product specification
- construction aspects
- production technology
- sustainable development

Module 4 Process - Business Administration 5 credits

The course consists of the following parts:

- innovation project
- sustainable development
- calculation (extended product costing)
- supply (sourcing)
- integrated market communication

Module 5 Skill and Design 2.5 credits

The course consists of the following parts:

- introduction to the area of Skill and Design, make distinctions between rules and the following of rules, between the abstract and the concrete, and problems and dilemmas in society from the perspective of professional skill
- introduction to the dialogue seminar method
- introduction to the terms case study, dialogue, tacit knowledge, the dream about the exact language, model and reality

Type of Instruction

The course consists of lectures, workshops and seminars based on the different perspectives presented by the participating disciplines. The course also contains a mandatory project work which is supported by supervisors from all disciplines. The teaching is carried out on campus and at project organizations. Obligatory parts are stated in the schedule.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

The course is examined through project report, artefact, oral presentation, workshops and discussion seminars. Results are graded using one of the terms Passed with distinction, Pass or Fail, and A-F according to the ECTS scale. For the grade pass, the objectives have to be reached; the grade is based upon the degree to which the objectives are met. Students who do not achieve a satisfactory result in the examinations are permitted to make a second attempt approximately 5-8 weeks after the normal examination date. The student will have a minimum of five occasions for exams in relation to the syllabus to which the student was accepted. Usually 3 occasions per academic year. Students that do not pass deliveries/reports can complement after consultation with the examiner.

Course Evaluation

A written course evaluation is carried out and compiled in a report, which is archived at the faculty. The results and possible measures taken are communicated by the course coordinator and presented to the students the next time the course is given, or in another way deemed suitable by the course coordinator. Other types of course evaluations, for example regular evaluations throughout the course or discussions with students, will be included and encouraged with the aim of ensuring continuous quality development.

Required Reading and Additional Study Material

Required reading

Ashby, M. F., Shercliff, H. & Cebon, D. *Materials: Engineering, Science, Processing & Design*. BUTTERWORTH – HEINEMANN. Latest edition. 672 pages.

Atkinson, A. *Management Accounting*. Pearson. Latest edition. 526 pages.

Göranzon, B. (2009). *The Practical Intellect*. Santerus Academic Press. 160 pages.

Hannington, B. & Martin, B. *Universal Methods of Design: 100 Ways to Research Complex Problems Develop Innovative Ideas, and Design Effective Solutions*. Rockport Publishers Inc. Latest edition. 208 pages.

Lidwell, W., Holden, K. & Butler, J. *Universal Principles of Design*. Rockport Publishers Inc. Latest edition. 214 pages.

Slack, N., Brandon-Jones, A., Johnston, R. & Betts, A. *Operations and Process Management*. Pearson. Latest edition. 540 pages.

Thorpe, A. *The Designer's Atlas of Sustainability*. Island Press. Latest edition. 221 pages.

Trott, P. *Innovation Management and New Product Development*. Prentice Hall. Latest edition. 620 pages.

Ulrich, K. & Eppinger, S. *Product Design and Development*. McGraw-Hill Higher Education. Latest edition. 358 pages.

Scientific articles. About 100 pages.