



## Course syllabus

School of Business and Economics

Department of Management Accounting and Logistics

4FE160 Lokal innovation, 22,5 högskolepoäng

Local Innovation, 22.5 credits

### **Main field of study**

Business Administration

### **Subject Group**

Business Administration

### **Level of classification**

Second Level

### **Progression**

A1N

### **Date of Ratification**

Approved by School of Business and Economics 2014-10-01

The course syllabus is valid from autumn semester 2015

### **Prerequisites**

General entry requirements for studies on second level, and specific entry requirements: Business Administration 90 credits, including an independent degree project on level G2E, and 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: Process - Design, 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 a creative process
- account for and discuss the concept of design and the general features of the design process in relation to one's own discipline
- implement the design process 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 design perspective
- examine the concept of innovation and its process from a 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: Leading Process - Business Administration, 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 business administration perspective
- critically examine the concept of innovation and its process from the perspective of business administration

### **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, in a constructive way take part in dialogue seminars
- 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 Process - Design 5 credits***

The course consists of the following parts:

- the various parts of the design process (theories/analysis/concept/formation)
- visualisation
- sustainable development
- the 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 Leading Process - Business Administration 5 credits***

The course consists of the following parts:

- project management in an innovation project
- communication of the discipline's basis (calculation, supply, integrated market communication, market research), approach, and methods
- sustainable development
- consumer involvement in product development

### ***Module 5 Skill and Technology 2.5 credits***

The course consists of the following parts:

- introduction to the area of Skill and Technology, 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 A, B, C, D, E, Fx or F.

The course is examined through project report, artefact, oral presentation, written examination, workshops and discussion seminars.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail.

After each regular examination there will be at least one new examination in close proximity to the date the results of the regular exam were posted. A minimum of five occasions for written exams will be offered in relation to the syllabus to which the student was accepted. Usually three occasions per academic year are offered. Students that fail reports can complement after instructions from the examiner to obtain a pass grade.

Grading criteria for the A–F scale are communicated in writing to the student by the start of the course/module at the latest, as well as how grades on separate elements of examination are weighed to a final course grade.

## 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.

## Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: The course overlaps 4FE040 with 22.5 credits.

## Other

The course contains mandatory elements such as study visits, laboratory work, and fieldwork. Such elements may result in certain expenses; these are paid for by the students themselves.

## 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.

**Reference Literature**

van Weele, A. *Purchasing and Supply Chain Management*. Cengage Learning EMEA. Latest edition. 418 pages.