Linnæus University

Dnr: 2021/3637-3.1.2.2

Course syllabus

School of Business and Economics

Department of Management

4FE169 Lokal innovation – interdisciplinära innovationsprocesser i teori och praktik, 30 högskolepoäng

4FE169 Local Innovation –Interdisciplinary Innovation Processes in Theory and Practice, 30 credits

Main field of study
Business Administration

Subject Group
Business Administration

Level of classification
Second Level

Progression
A1N

Date of Ratification
Approved 2021-10-05
Revised 2022-12-07 by School of Business and Economics. Change of department
The course syllabus is valid from spring semester 2023

Prerequisites
General entry requirements for second-cycle studies, plus specific entry requirements:

- A minimum of 90 credits within the main field of study 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, 3.5 credits
After completing this module the student should be able to:

- plan, conduct and evaluate an interdisciplinary project on product development
- apply methods and tools used in the innovation process
- evaluate the concept of innovation and its process from a business administrative, technical or design perspective, as well as identify problems and possibilities from a sustainability perspective
- analyse and evaluate a project on product development from a sustainability perspective

- present an interdisciplinary project on product development orally, visually and in writing

Module 2: Innovation Process I – Idea Generation, 5 credits
After completing this module the student should be able to:

- apply and justify their choice of method for identifying different needs
- apply and justify their choice of method for generating ideas
- identify and analyse different needs and, based on these needs, generate ideas in an interdisciplinary innovation process with a broad sustainability perspective

Module 3: Innovation Process II – Realisation, 5 credits
After completing this module the student should be able to:

- develop ideas into concepts using different methods
- evaluate feasibility and justify their choice of methods from the point of view of a broad sustainability perspective
- develop material that can serve as a basis for communication and evaluation of concepts

Module 4: Innovation Process III – Evaluation, 5 credits
After completing this module the student should be able to:

- analyse, evaluate and revise concepts using different methods
- analyse and evaluate methods for product development
- present an interdisciplinary innovation project orally, visually and in writing, looking at the full process, from idea to implementation, analysing and reflecting upon how the project relates to the sustainability goals

Module 5: Professional Skills, 2 credits
After completing this module the student should be able to:

- analyse and reflect upon the expertise and skills involved in different professions
- discuss and evaluate the different ways in which different professions approach science and art
- analyse and reflect upon their own professional skills by means of critical reflection from a broad sustainability perspective

Module 6: Interdisciplinary Work, 2 credits
After completing this module the student should be able to:

- analyse individual and group approaches in interdisciplinary work
- reflect upon their own approach in interdisciplinary work
- discuss and evaluate different strategies for efficient interdisciplinary work from a broad sustainability perspective

Module 7: Innovation Methods and Tools, 7.5 credits
After completing this module the student should be able to:

- analyse and reflect upon different disciplines' approaches, methods and tools
- evaluate scientific and artistic methods that may be relevant in an innovation project
- argue for their choice of empirical material and relevant data collection methods
- analyse and evaluate research results based on scientific as well as artistic

methods, including a broad sustainability perspective
- apply and evaluate different ways of communicating the processes and results of research work

Content

Module 1: Interdisciplinary Innovation Processes, 3.5 credits
The module introduces the different methods and tools used in the innovation process through a project on product development. The module includes the following components:

- interdisciplinary work
- innovation concepts and the innovation process
- concepts involved in product development
- sustainability concepts
- consumption patterns and sustainability
- visual and oral presentation techniques
- academic writing, focusing on reports

Module 2: Innovation Process I – Idea Generation, 5 credits
The module problematises the concept of need, and develops the ability to generate ideas through interdisciplinary work. The module includes the following components:

- theories of need and their applications in the innovation process
- methods and tools for creating ideas
- a sustainability perspective on needs and the development of ideas
- written, oral and visual presentation of the initiation of the innovation process

Module 3: Innovation Process II – Realisation, 5 credits
The module concerns the development of concepts, as well as analysis and evaluation of feasibility. The module includes the following components:

- analysis of feasibility
- the importance of innovation for sustainable development
- analysis and establishment of criteria for realisation of the innovation process
- creation of material that may serve as a basis for communication and evaluation of concepts
- written, oral and visual presentation of the realisation of the innovation process

Module 4: Innovation Process III – Evaluation, 5 credits
The module concerns the evaluation of the innovation process and its results. The module includes the following components:

- consumer behaviour and sustainable development
- behavioural transformation in theory and practice
- evaluation and impact analysis of innovation from a broad sustainability perspective
- analysis and evaluation of the methods used for product development in the innovation process
- written, oral and visual presentation of the innovation process

Module 5: Professional Skills, 2 credits
The module includes the following components:

- the concept of professional skill
- the different concepts used and approaches taken by different professions from a broad sustainability perspective
- dialogue seminars as a method

Module 6: Interdisciplinary Work, 2 credits
The module includes the following components:

- multi-, inter- and transdisciplinary processes
- individual and group strategies in interdisciplinary work
- understanding the perspective of sustainability through complex collaboration

Module 7: Innovation Methods and Tools, 7.5 credits
The module includes the following components:

- scientific and artistic approaches, methods and tools
- methods for collecting data
- methods for analysing and evaluating data
- methods for surveying, analysing and evaluating sustainability perspectives in the innovation process

Type of Instruction
The course consists of lectures, workshops and seminars based on the different competences and perspectives of the participating disciplines. The modules are partly based on projects, supported by supervisors from all the participating disciplines, as well as external stakeholders in collaboration with the programme. Teaching is primarily carried out on campus, although some parts may take place in venues determined by the external stakeholders. Practical work may be conducted within or outside the university.

Examination
The course is assessed with the grades A, B, C, D, E, Fx or F.

Module 1: Interdisciplinary Innovation Processes, 3.5 credits
The module is examined through hand-in assignments and a report.

Module 2: Innovation Process I – Idea Generation, 5 credits
The module is examined through hand-in assignments and a report.

Module 3: Innovation Process II – Realisation, 5 credits
The module is examined through hand-in assignments and a report.

Module 4: Innovation Process III – Evaluation, 5 credits
The module is examined through hand-in assignments and a report.

Module 5: Professional Skills, 2 credits
The module is examined through hand-in assignments and an essay on reflection.

Module 6: Interdisciplinary Work, 2 credits
The module is examined through hand-in assignments and an essay on reflection.

Module 7: Innovation Methods and Tools, 7.5 credits
The module is examined through hand-in assignments individually and in groups and an essay on reflection.

The following applies to all modules:
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. Grading criteria for the A–F scale are communicated in writing to the student by the start of the module at the latest, as well as how the weighting and weighting of grades on individual examining elements to the final course grade takes place. The basis for the student's grade is determined by the student's fulfillment of the objectives.

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. An examiner can, in exceptional cases, decide that a student who is close to the level for a passing grade may carry out supplementary assignments in order to reach the passing grade.

If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

Course Evaluation
During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

Credit Overlap
The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course: 4TS346 and 4DI712 with 30 credits each.
Module 1-6: 4FE040, 4FE160, 4FE164, 4TS040, 4TS042, 4DI710 and 4DI714 with 22.5 credits each.
Module 7: 4FE041, 4FE161, 4FE165, 4FE041, 4FE161, 4MT042, 4TS045, 4DI711 and 4DI715 with 7.5 credits each.

Other
The course includes study visits, laboratory sessions and field work. This may entail certain costs for the student.

Required Reading and Additional Study Material

Module 1: Interdisciplinary Innovation Processes, 3.5 credits
Required reading
Atkinson, A. A. *Management Accounting. Pearson Education*. Latest edition. In selection, about 150 pages.

Bamossy, G. & Solomon, M. (2016). *Consumer Behaviour: A European Perspective*. Pearson Education. In selection, about 180 pages.

Curedale, R. *Design thinking –process and methods manual.* Design Community College Inc. Latest edition. In selection, about 80 pages.

Kumar, V. *101 Design Methods –A Structured Approach for Driving Innovation in Your Organization.* John Wiley & Sons, Inc. Latest edition. About 325 pages.

Thorpe, Ann. *The Designer's Atlas of Sustainability.* Island Press. Latest edition. About 220 pages.

Trott, Paul. *Innovation Management and New Product Development*. Prentice Hall. Latest edition. In selection, about 150 pages.

Module 2: Innovation Process I – Idea Generation, 5 credits
Curedale, R. *Design thinking –process and methods manual.* Design Community College Inc. Latest edition. In selection, about 80 pages.

Max-Neef, M. (1991). *Human Scale Development.* The Apex Press. 115 pages.

Puccio, G. J. (2011). *Creative Leadership Skills That Drive Change*. 2nd edition Sage publications. In selection, about 150 pages.

Trott, P. *Innovation Management and New Product Development*. Prentice Hall. Latest edition. In selection, about 150 pages.

Module 3: Innovation Process II – Realisation, 5 credits
Ashby, M. F., Shercliff, H. & Cebon, D. *Materials: Engineering, Science, Processing and Design.* Butterworth – Heinemann. Latest edition. In selection, about 150 pages.

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

Module 4: Innovation Process III – Evaluation, 5 credits
Atkinson, A. A. *Management Accounting*. Pearson Education. Latest edition. In selection, about 50 pages.

Bamossy, G., & Solomon, M. (2016). *Consumer Behaviour: A European Perspective*. Pearson Education. In selection, about 180 pages.

Slack, N., Brandon J., Alistar, J., R. & Betts, A. *Operations and Process Management.* Pearson. Latest edition. In selection, about 200 pages.

Trott, P. *Innovation Management and New Product Development*. Prentice Hall. Latest edition. In selection, about 150 pages.

Scientific articles. About 100 pages.

Module 5: Professional Skills, 2 credits
Göranzon, Bo. (2009). *The Practical Intellect.* Santerus Academic Press. 160 pages.

Scientific articles. About 100 pages.

Module 6: Interdisciplinary Work, 2 credits
Mintzberg, H., Ahlstrand B. and Lampel, J. B. (2009). *Strategy Safari: Your Complete Guide Through the Wilds of Strategic Management*. 2nd Edition, Pearson Ed. Lmt. In selection, about 150 pages.

Weick, Karl E. (1995). *Sensemaking in Organizations*. Sage publications. Inc. In selection, about 100 pages.

Module 7: Innovation Methods and Tools, 7.5 credits
Barbour, Rosaline (2018). *Doing focus groups.* Sage. 177 pages.

Bryman, A. and Bell, E. *Business Research Methods*. Oxford University Press. New York. Latest edition. In selection, about 250 pages.

Curedale, R. *Design thinking –process and methods manual.* Design Community College Inc. Latest edition. In selection, about 80 pages.

Thiel, David V. (2014). *Research Methods for Engineers*. Cambridge University Press. 306 pages.

Scientific articles. About 150 pages.