

Entrepreneurship and Idea Development

Programme course

6 credits

Entreprenörskap och idéutveckling

TEIO94

Valid from: 2019 Spring semester

Determined by

Board of Studies for Chemistry, Biology and
Biotechnology

Date determined

2018-08-31

Main field of study

Industrial Engineering and Management

Course level

First cycle

Advancement level

G2X

Course offered for

- Chemical Analysis Engineering, B Sc in Engineering
- Programming, Bachelor's Programme
- Mathematics, Bachelor's Programme
- Computer Science and Engineering, M Sc in Engineering
- Information Technology, M Sc in Engineering
- Chemical Biology, M Sc in Engineering
- Biomedical Engineering, M Sc in Engineering
- Computer Science and Software Engineering, M Sc in Engineering
- Mechanical Engineering, M Sc in Engineering
- Engineering Biology, M Sc in Engineering
- Applied Physics and Electrical Engineering - International, M Sc in Engineering
- Applied Physics and Electrical Engineering, M Sc in Engineering

Specific information

This course cannot be included in the same degree as the course TEIO06 or TEIO20.

Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Prerequisites

Two years studies at university level.

Students should be able to search for and structure information, communicate orally and in writing, plan and execute a group project assignment and make basic mathematical calculations. They should also have an ability for creative and critical thinking.

Intended learning outcomes

The purpose of the course is for students to develop knowledge and abilities within the field of entrepreneurship and innovation within early stages of development. Focus is put upon formulation and development of entrepreneurial and innovative ideas and includes some ability to make judgements on potential for commercialisation.

The learning outcomes are that students should:

- be able to understand and define the concepts of innovation and entrepreneurship in general as well as in the context of their own area of technology and knowledge
- have basic knowledge on theories and tools for idea development and, on a general level, know what is included in a business development process and of what commonly is included in a business plan
- be able to give an account of the information and analyses required to verify an idea and have ability to judge the commercial potential of an hypothesised innovative/entrepreneurial venture
- have ability to communicate a business idea proposal orally and in writing.

Course content

The course contains three themes:

- Entrepreneurship and innovation – Students are faced with different perspectives on entrepreneurship and innovation. We ask ourselves what an entrepreneurial versus innovative venture is or might be and in what contexts it can appear.
- Idea development – the process to develop an idea into a business model. Focus is put on how to formulate and develop an idea that can become foundation for a new venture or the development of an idea that could strengthen an existing firm, how an idea could be protected and how it could gain instep on a market, what prerequisites is needed for a venture to become viable and how it could be financed.
- Business planning and communication – Here it is about being able to, in written and oral forms, describe and communicate the idea by use of relevant models of analysis.

Teaching and working methods

The course is organized in case of lectures, seminars / workshops, individual work

and group work. Entrepreneurship is not just the subject of the course but also the way in which we learn and relate to the course work. The theoretical lectures, along with the literature, explains the concepts and models which then are applied to a context through group work. Getting close to reality is important and group work will therefore be in the form of so called live cases, where the students develop their own (or others) ideas to solve needs or problems in a relevant business. Research shows that active learning enhance knowledge gathering and understanding and to support this, several different forms for learning are used. The course requires that students take responsibility for their own learning, both individually and in their groups.

The course is offered twice per year.

Examination

TEN1	Written examination	U, 3, 4, 5	2.5 credits
UPG1	Reflection assignment individual/in pairs	U, 3, 4, 5	0.5 credits
UPG2	Project group assignment	U, 3, 4, 5	3 credits

TEN1 is a test that make sure that the individual has reached the course goals on a theoretical level. The knowledge tested are applied practically during the group work.

UPG1 is an individual or pairwise reflection where the student(s) use research literature to reflect over the first theme of the course – entrepreneurship and innovation – from the perspective of their own technological domain.

UPG2 consist of a project work conducted in groups where the students work with the development and evaluation of an idea that can become foundation for a business venture. The project is reported in written and oral forms in case of an Idea-PM and a pre-study (mini business plan). The Idea-PM is examined as pass or fail. The pre-study follows the format of a business plan and are examined as U,3,4,5. In this assignment oral presentations in case of so called pitches are included.

In order to pass the course the student need to have been examined with pass/3 on all assignments included. Participation in compulsory activities are also required. The final grade on the course is assembled of all the parts included and builds upon the distribution of credits of each examination code included.

All details regarding the structure and organisation of the course, including description of all compulsory events and assignments, are given in the course syllabus displayed at the course web at Lisam and will be shared at course start.

Grades

Four-grade scale, LiU, U, 3, 4, 5

Department

Inst för ekonomisk och industriell utv

Director of Studies or equivalent

Dag Swartling

Examiner

Charlotte Norrman

Course website and other links

<http://www.iei.liu.se/pie/kurser>

Education components

Preliminary scheduled hours: 44 h

Recommended self-study hours: 116 h

Course literature

Books

Frankelius och Norrman, (2013) *Uppfinningars betydelse för Sverige*

Vinnova report VR 2013:3, Chap 3 Frankelius, Norrman & Parment, (2015)

Marknadsföring - vetenskap och praktik Lund: Studentlitteratur

Compendium including chapter 2 and 16. McKinsey, (1998) *Från idé till företag.*

Affärsplanering för framgång. McKinsey & Company, Göteborg och Stockholm.

Articles

Scientific articles and book chapters, case descriptions, etc presented at the course home page.

Common rules

Course syllabus

A syllabus has been established for each course. The syllabus specifies the aim and contents of the course, and the prior knowledge that a student must have in order to be able to benefit from the course.

Timetabling

Courses are timetabled after a decision has been made for this course concerning its assignment to a timetable module. A central timetable is not drawn up for courses with fewer than five participants. Most project courses do not have a central timetable.

Interrupting a course

The vice-chancellor's decision concerning regulations for registration, deregistration and reporting results (Dnr LiU-2015-01241) states that interruptions in study are to be recorded in Ladok. Thus, all students who do not participate in a course for which they have registered must record the interruption, such that the registration on the course can be removed. Deregistration from a course is carried out using a web-based form: www.lith.liu.se/for-studenter/kurskomplettering?f=sv.

Cancelled courses

Courses with few participants (fewer than 10) may be cancelled or organised in a manner that differs from that stated in the course syllabus. The board of studies is to deliberate and decide whether a course is to be cancelled or changed from the course syllabus.

Regulations relating to examinations and examiners

Details are given in a decision in the university's rule book:
<http://styrdokument.liu.se/Regelsamling/VisaBeslut/622678>.

Forms of examination

Examination

Written and oral examinations are held at least three times a year: once immediately after the end of the course, once in August, and once (usually) in one of the re-examination periods. Examinations held at other times are to follow a decision of the board of studies.

Principles for examination scheduling for courses that follow the study periods:

- courses given in VT1 are examined for the first time in March, with re-examination in June and August
- courses given in VT2 are examined for the first time in May, with re-examination in August and October
- courses given in HT1 are examined for the first time in October, with re-examination in January and August
- courses given in HT2 are examined for the first time in January, with re-examination at Easter and in August.

The examination schedule is based on the structure of timetable modules, but there may be deviations from this, mainly in the case of courses that are studied and examined for several programmes and in lower grades (i.e. 1 and 2).

- Examinations for courses that the board of studies has decided are to be held in alternate years are held only three times during the year in which the course is given.
- Examinations for courses that are cancelled or rescheduled such that they are not given in one or several years are held three times during the year that immediately follows the course, with examination scheduling that corresponds to the scheduling that was in force before the course was cancelled or rescheduled.
- If teaching is no longer given for a course, three examination occurrences are held during the immediately subsequent year, while examinations are at the same time held for any replacement course that is given, or alternatively in association with other re-examination opportunities. Furthermore, an examination is held on one further occasion during the next subsequent year, unless the board of studies determines otherwise.
- If a course is given during several periods of the year (for programmes, or on

different occasions for different programmes) the board or boards of studies determine together the scheduling and frequency of re-examination occasions.

Registration for examination

In order to take an examination, a student must register in advance at the Student Portal during the registration period, which opens 30 days before the date of the examination and closes 10 days before it. Candidates are informed of the location of the examination by email, four days in advance. Students who have not registered for an examination run the risk of being refused admittance to the examination, if space is not available.

Symbols used in the examination registration system:

** denotes that the examination is being given for the penultimate time.

* denotes that the examination is being given for the last time.

Code of conduct for students during examinations

Details are given in a decision in the university's rule book:
<http://styrdokument.liu.se/Regelsamling/VisaBeslut/622682>.

Retakes for higher grade

Students at the Institute of Technology at LiU have the right to retake written examinations and computer-based examinations in an attempt to achieve a higher grade. This is valid for all examination components with code "TEN" and "DAT". The same right may not be exercised for other examination components, unless otherwise specified in the course syllabus.

Retakes of other forms of examination

Regulations concerning retakes of other forms of examination than written examinations and computer-based examinations are given in the LiU regulations for examinations and examiners,
<http://styrdokument.liu.se/Regelsamling/VisaBeslut/622678>.

Plagiarism

For examinations that involve the writing of reports, in cases in which it can be assumed that the student has had access to other sources (such as during project work, writing essays, etc.), the material submitted must be prepared in accordance with principles for acceptable practice when referring to sources (references or quotations for which the source is specified) when the text, images, ideas, data, etc. of other people are used. It is also to be made clear whether the author has reused his or her own text, images, ideas, data, etc. from previous examinations.

A failure to specify such sources may be regarded as attempted deception during examination.

Attempts to cheat

In the event of a suspected attempt by a student to cheat during an examination, or when study performance is to be assessed as specified in Chapter 10 of the Higher Education Ordinance, the examiner is to report this to the disciplinary board of the university. Possible consequences for the student are suspension from study and a formal warning. More information is available at <https://www.student.liu.se/studenttjanster/lagar-regler-rattigheter?l=sv>.

Grades

The grades that are preferably to be used are Fail (U), Pass (3), Pass not without distinction (4) and Pass with distinction (5). Courses under the auspices of the faculty board of the Faculty of Science and Engineering (Institute of Technology) are to be given special attention in this regard.

1. Grades U, 3, 4, 5 are to be awarded for courses that have written examinations.
2. Grades Fail (U) and Pass (G) may be awarded for courses with a large degree of practical components such as laboratory work, project work and group work.

Examination components

1. Grades U, 3, 4, 5 are to be awarded for written examinations (TEN).
2. Grades Fail (U) and Pass (G) are to be used for undergraduate projects and other independent work.
3. Examination components for which the grades Fail (U) and Pass (G) may be awarded are laboratory work (LAB), project work (PRA), preparatory

written examination (KTR), oral examination (MUN), computer-based examination (DAT), home assignment (HEM), and assignment (UPG).

4. Students receive grades either Fail (U) or Pass (G) for other examination components in which the examination criteria are satisfied principally through active attendance such as other examination (ANN), tutorial group (BAS) or examination item (MOM).

The examination results for a student are reported at the relevant department.

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.