Strategic Organisational Application of IT - Workflow and Knowledge Management

Programme course

6 credits
Strategisk organisatorisk IT-användning - workflow och knowledge management
TDEI21
Valid from: 2020 Spring semester

Determined by
Board of Studies for Industrial Engineering and Logistics

Date determined
2019-09-23
Main field of study

Industrial Engineering and Management

Course level

Second cycle

Advancement level

A1X

Course offered for

- Industrial Engineering and Management - International, M Sc in Engineering
- Industrial Engineering and Management, M Sc in Engineering
- Information Technology, M Sc in Engineering
- Design and Product Development, M Sc in Engineering

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

Have basic insights in organisation and business administration.

Intended learning outcomes

In Strategic Application of IT - workflow och knowledge management we focus on the more or less structured communication processes within the organisation. By learning more about participation and influence in development and implementation, group roles, incentives, responsibilities and roles in knowledge management, you build an understanding that can help you turn visions and strategies into action. But it is not just the premeditated and planned that can be of strategic importance. At least as important is that you learn to recognise spontaneous and temporary initiatives and developments that warrant attention and support.
The purpose is to give you insights enabling you to make nuanced assessments of the potential behind the hype.

When having completed the course, you should be able to:
1) assess the potential of a strategic IT application supporting processes within the organisation
2) find and interpret academic articles of relevance to a strategic application of IT, and
3) orally and in writing present your own analyses and constructively contribute to and discuss others' analyses.

Course content

The basic idea of the course is to discuss strategic importance, business impact, current applications and commercial potential, based on current trends. Using case studies and the experience of the participants, we investigate the chain from vision to realisation.
Workflow and Knowledge management are two central perspectives in the analysis of applications of IT. Reading and discussing published empirical research is a recurring activity in the course. The investigating projects performed by the participants, their literature searches and the interaction between the workgroups form central parts of the knowledge management theme in the course.

Teaching and working methods

The course consists of lectures and seminars - traditional and virtual. The participants' own investigating projects, literature searches and the interaction between the workgroups form central parts of the knowledge management theme in the course.

Examination

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Grade</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPG4</td>
<td>Hand-in assignments</td>
<td>U, 3, 4, 5</td>
<td>2 credits</td>
</tr>
<tr>
<td>PRA1</td>
<td>Project</td>
<td>U, 3, 4, 5</td>
<td>3 credits</td>
</tr>
<tr>
<td>UPG2</td>
<td>Seminars</td>
<td>U, G</td>
<td>1 credit</td>
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</tbody>
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To pass the course, the student should actively participate in seminars, have completed reflection reports concerning literature and teaching cases, have participated (well prepared) in the discussion of course literature, teaching cases and the other groups' projects, and have actively participated in a completed project that has been presented orally and in writing in line with the directions given in the course.

Grades

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

About teaching and examination language

The teaching language is presented in the Overview tab for each course. The examination language relates to the teaching language as follows:

- If teaching language is Swedish, the course as a whole or in large parts, is taught in Swedish. Please note that although teaching language is Swedish, parts of the course could be given in English. Examination language is Swedish.
- If teaching language is Swedish/English, the course as a whole will be taught in English if students without prior knowledge of the Swedish language participate. Examination language is Swedish or English (depending on teaching language).
- If teaching language is English, the course as a whole is taught in English. Examination language is English.

Other

The course is conducted in a manner where both men's and women's experience and knowledge are made visible and developed.

The planning and implementation of a course should correspond to the course syllabus. The course evaluation should therefore be conducted with the course syllabus as a starting point.

Department

Institutionen för ekonomisk och industriell utveckling

Director of Studies or equivalent

Johan Holtström

Examiner

Alf Westelius

Course website and other links

Education components

Preliminary scheduled hours: 48 h
Recommended self-study hours: 112 h

Course literature

Huvudsakligen empiriskt grundade artiklar som presenterar aktuell forskning inom området. Den slutgiltiga läslistan bestäms inför och under kursen, delvis av deltagarna själva. Ett exempel på hur läslistan kan se ut ges nedan:

Common rules

Course syllabus

A syllabus must be 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.

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: https://www.lith.liu.se/for-studenter/kurskomplettering?f=en.

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 Dean is to deliberate and decide whether a course is to be cancelled or changed from the course syllabus.

Guidelines relating to examinations and examiners


An examiner must be employed as a teacher at LiU according to the LiU Regulations for Appointments (https://styrdokument.liu.se/Regelsamling/VisaBeslut/622784). For
courses in second-cycle, the following teachers can be appointed as examiner: Professor (including Adjunct and Visiting Professor), Associate Professor (including Adjunct), Senior Lecturer (including Adjunct and Visiting Senior Lecturer), Research Fellow, or Postdoc. For courses in first-cycle, Assistant Lecturer (including Adjunct and Visiting Assistant Lecturer) can also be appointed as examiner in addition to those listed for second-cycle courses. In exceptional cases, a Part-time Lecturer can also be appointed as an examiner at both first- and second cycle, see Delegation of authority for the Board of Faculty of Science and Engineering.

**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 in March 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 three times during the school year in which the course is given according to the principles stated above.

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.

When a course is given for the last time, the regular examination and two re-examinations will be offered. Thereafter, examinations are phased out by offering three examinations during the following academic year at the same times as the examinations in any substitute course. If there is no substitute course, three examinations will be offered during re-examination periods during the following academic year. Other examination times are decided by the board of studies. In all cases above, the examination is also offered one more time during the academic year after the following, unless the board of studies decides 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:

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.

A retake is not possible on courses that are included in an issued degree diploma.

**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 guidelines for examinations and examiners, http://styrdokument.liu.se/Regelsamling/VisaBeslut/917592.

**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, such as degree projects, project reports, etc. (this is sometimes known as “self-plagiarism”).

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=en.

**Grades**

The grades that are preferably to be used are Fail (U), Pass (3), Pass not without distinction (4) and Pass with distinction (5).
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.
3. Grades Fail (U) and Pass (G) are to be used for degree projects and other
   independent work.

Examination components

1. Grades U, 3, 4, 5 are to be awarded for written examinations (TEN).
2. 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).
3. 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).
4. Grades Fail (U) and Pass (G) are to be used for the examination components
   Opposition (OPPO) and Attendance at thesis presentation (AUSK) (i.e. part
   of the degree project).

For mandatory components, the following applies: If special circumstances prevail,
and if it is possible with consideration of the nature of the compulsory component, the
examiner may decide to replace the compulsory component with another equivalent
component. (In accordance with the LiU Guidelines for education and examination
for first-cycle and second-cycle education at Linköping University,

For written examinations, the following applies: If the LiU coordinator for students
with disabilities has granted a student the right to an adapted examination for a
written examination in an examination hall, the student has the right to it. If the
coordinator has instead recommended for the student an adapted examination or
alternative form of examination, the examiner may grant this if the examiner assesses
that it is possible, based on consideration of the course objectives. (In accordance
with the LiU Guidelines for education and examination for first-cycle and second-
cycle education at Linköping University,
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.