

# Strategic Application of IT: E-business and Knowledge Management

Programme course

6 credits

Strategiska IT-tillämpningar: E-business och Knowledge Management

TDEI09

Valid from: 2017 Spring semester

**Determined by**  
Board of Studies for Industrial  
Engineering and Logistics

**Date determined**  
2017-01-25

## 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
- Energy-Environment-Management

## 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, business administration and business information system

## Intended learning outcomes

In the course, we focus the interaction between the organisation and its environment. What importance does the application of IT have for the reshaping of business networks and markets, development and trade with goods and services, and the management of knowledge within organisations and the networks they co-operate in? The aim is to provide you with insights, enabling you to make nuanced assessments of the potential behind the hype. On completion of the course, you should be able to:

- understand the meaning of the terms strategic IT applications, e-business, and knowledge management
- find and interpret academic articles of relevance to the strategic application of IT
- assess the potential of a strategic application of IT affecting the interplay of an organisation and its environment
- orally and in writing present your own analyses and constructively discuss other people's 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. 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 - both in the classroom and in virtual form. 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.

## Examination

UPG2	Participation	1 credits	U, G
UPG1	Written test	2 credits	U, 3, 4, 5
PRA1	Project work	3 credits	U, 3, 4, 5

Written test on the literature. Projects conducted in small groups, and with themes chosen by the groups in consultation with the examiner, are presented in writing and discussed at seminars. 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

## Department

Institutionen för ekonomisk och industriell utveckling

## Director of Studies or equivalent

Johan Holtström

## Examiner

Alf Westelius

## Course website and other links

<http://www.iei.liu.se/indek/utbildning/ekonomiska-informationssystem/tdeiog?l=sv>

## Education components

Preliminary scheduled hours: 48 h

Recommended self-study hours: 112 h

## Course literature

### Additional literature

#### Books

Chen, Shizhong, Duan, Yanqing, Edwards, John S., Lehaney, Brian, (2006)  
*Toward understanding interorganizational knowledge transfer needs in SMEs insight from a UK investigation*

Journal of Knowledge Management; May 2006, Vol. 10 Issue: 3 p6-23, 18p

M. McLure Wasko, S. Faraj, (2000) "*It is what one does*": why people participate and help others in electronic communities of practice.

Schultze, U, Boland, RJ, (2000) *Knowledge management technology and the reproduction of knowledge work practices*

<searchLink fieldCode="JN"

term="%22JOURNAL+OF+STRATEGIC+INFORMATION+SYSTEMS%22">

<i>JOURNAL OF STRATEGIC INFORMATION SYSTEMS</i></searchLink>;

SEP, 2000, 9 2-3, p193-p212, 20p.

Shapiro, Carl, Varian, Hal R., (1998) *Information rules : a strategic guide to the network economy*

ISBN: 087584863X, 9780875848631

Boston, Mass. : Harvard Business School Press, [1998], c1999.

Westelius Alf , Information Systems & Management, Department of Computer and Informations Science, Linköping University, (2006) *International Journal of Public Information Systems Images and Imaginators in Virtual Organising - The NPO Friluftsförbundet och www.friluft.se*

2006; 2011-01-19.

## Common rules

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://stydokument.liu.se/Regelsamling/Innehall/Utbildning\\_pa\\_grund-\\_och\\_avancerad\\_niva](http://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva).