

**SYLLABUS**

# **Knowledge Management - Information Security 7.5 credits A7005N**

**Knowledge Management - Informationssäkerhet**

**Course syllabus admitted: Autumn 2018 Sp 1 - Spring 2019 Sp 4**

**DECISION DATE  
2018-02-15**

# Knowledge Management - Information Security 7.5 credits A7005N

## Knowledge Management - Informationssäkerhet

### Second cycle, A7005N

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G VG	Systemvetenskap	Informatics/Computer and Systems Sciences

## Entry requirements

Minimum 120 ECTS of university studies including 60 ECTS in the areas of computer science or systems science, business administration or equivalent. Students from non-English speaking countries are required proof of knowledge in English provided by TOEFL test (score 550/213 or higher), IELTS test (score 6.0 or higher) or equivalent test. Students from EU countries are required to have obtained a pass in an English language course in their upper secondary school leaving certificate.

## Selection

The selection is based on 30-285 credits

## Examiner

Tero Päivärinta

## Course Aim

Upon completion of the course, the student will be able to:

- Know and be able to explain the concepts of knowledge management, knowledge security, knowledge security risk analysis, security knowledge management system, and security awareness.
- Explain and reflect upon the importance of knowledge management in business and how knowledge is created, disseminated and used in a company/an organisation.
- Use a model/methodology for mapping organisational knowledge and identifying related knowledge security risks and mitigation strategies/plans
- Analyse and reflect upon how companies/organisations can protect and safely share knowledge in a collaborative environment without spreading the information in a way that can harm the organisations.
- Define a security knowledge management system (SKMS) for an organisation and reflect upon the advantages the use of a model will have.
- Conceptualise a security awareness program.

## Contents

The course deals with basic concepts within the area and defines the concepts of knowledge and knowledge management. The creation of knowledge and the question of whether all knowledge in an organisation can be taken charge of and how that is possible are other important issues. The management of processes concerning the creation of new knowledge, dissemination and use of knowledge are also discussed. Considerations are also made on the use of IT for knowledge management.

The course adds a security perspective on how knowledge is used in an organisation, for example, competencies within information security. Information and knowledge have a high accessibility in a computer-based environment; how it is possible to create and share knowledge safely and to utilise means for responding to identified knowledge security risks without losing the ease of access to knowledge are important questions.

## Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

Teaching is in English and on the Internet for distance students or on campus. IT support: Learning management system, on-line interactive meeting system, e-mail. Learning takes place through participation in lectures, interaction with other students and the lecturer through the asynchronous learning platform, and participation in seminars in which the assignments are discussed. Individual learning is ongoing, explicated and shared by the students through the use of a learning diary, which forms the documentation of the individual assignments.

The student's ability to cooperate with other students and to experience practical challenges of knowledge creation and sharing in distributed groups can be practiced during the execution of group assignments.

## Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. Individual and group assignments

## Remarks

Technical Requirements: access to PC with Windows XP, microphone, Web cam and permission to install software. Internet connection (minimum 0,5 Mbps).

## Overlap

The course A7005N is equal to A7012E

## Literature. Valid from Autumn 2016 Sp 1

Literature consists of research articles distributed during the course.

## Course offered by

Department of Computer Science, Electrical and Space Engineering

## Items/credits

Number	Type	Credits	Grade
0002	Individual assignments 1	3.5	TG U G VG
0004	Group assignments 2	4	TG U G VG

## Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students

applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

## Last revised

by Jonny Johansson, HUL SRT 2018-02-15

## Syllabus established

by Institutionen för industriell ekonomi och samhällsvetenskap 2007-02-28