

**SYLLABUS**

# **Safe e-services I 7.5 credits**

## **A7003N**

**Säkra E-tjänster I**

**Course syllabus admitted: Spring 2011 Sp 3 - Autumn 2011 Sp 1**

**DECISION DATE**  
**2010-12-21**

# Safe e-services I 7.5 credits A7003N

## Säkra E-tjänster I

### Second cycle, A7003N

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G VG		Computer Technology

## 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

Ann Hägerfors

## Course Aim

After the course, students will be able to

- Implement methods in Enterprise Architecture (EA) for the design of services
- Develop a service architecture based on platform-independent reusable Web services
- Perform a security classification of information as a basis for design of service-based security architecture

## Contents

The course deals with the Enterprise Architecture (EA) to identify the relationship between information systems and between information systems and actors within the organization. An important aspect of this process is to ensure information integrity in the design of secure e-services based on a service-oriented architecture in which key components of this process is process modelling, architecture description, information classification as the basis for selection of information security.

## Realization

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

During the course the student works with individual tasks and group work. The tasks are solved by using the course literature or papers. The student uses different methods and techniques and it is important to choose the right method, technique or computer support for each task. Before and after the tasks are solved there are lectures to present and discuss different solutions. Teaching is in English and on Internet for distance students or at campus for the students living here. IT support: Learning management system (Fronter), e-mail and phone.

## 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.

Written examination 5 hpexamines theoretical aspects of targets  
Compulsory assignments in group 2.5hpexamines the practical applications of targets

The course will also be graded using the ECTS grading system.

Students who have failed an examination on five occasions will not be allowed further resists.

## Remarks

Technical Requirements: Access to a PC with Windows XP, microphone, Web cam and permission to install software. Internet connection (minimum 0,5 Mbps). Students must register to the courses themselves or contact the IES educational administration not later than 5 days after the quarter commences. Failure to do so can result in the place being lost. This also applies to the students with a place guarantee.

## Literature. Valid from Spring 2011 Sp 3

Rosen, Lublinsky, Smith, Balcer: Applied SOA : Service-Oriented Architecture and Design Strategies. Wiley & Sons 2008. ISBN: 9780470390818.

## Course offered by

Department of Computer Science, Electrical and Space Engineering

## Items/credits

Number	Type	Credits	Grade
0001	Written exam	5	U G VG
0002	Compulsory assignment reports	2.5	U G#

## 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 2010-12-21

## Syllabus established

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