

SYLLABUS

Enterprise Architecture using SOA 15 credits D0031N

Enterprise Architecture och SOA

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2021-02-25**

Enterprise Architecture using SOA 15 credits D0031N

Enterprise Architecture och SOA

First cycle, D0031N

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

Main field of study

Information Systems Sciences

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and The course assumes basic knowledge of Computer Science or Systems Science, 60 ECTS

Selection

The selection is based on 1-165 credits.

Course Aim

After the course, students should be able to:

1. Describe and analyze business processes, information flows and supporting IT systems in an organization, using the EA concept, as the basis for the adaptation towards a service-oriented IT architecture
2. Develop business processes, information flows and IT systems from a service-oriented approach.
3. Designing and implementing a service-oriented IT architecture, where IT systems functionality develops to platform-independent reusable Web services.
4. Analyze and reflect on adjacent theories and practices in relation to EA and service-oriented architecture.

Contents

Students learn how to develop business core processes, information- flows and systems with a service oriented architecture in mind, satisfying organizational goals and user expectations. This will lead to demands on developers at different organizational levels with different skills to understand business core processes, actors and users, baseline information systems and technology platform (EA) to design an integrated service oriented IT-architecture based on Web Services supporting a process oriented enterprise that is adaptive to fast changes in its surroundings.

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 Swedish 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. Assignments, reported in writing, 10 credits examines goals 1-3

Project assignment, reported in writing, 5 credits examines goal 4

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term “unauthorized aids” refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

Access to PC with Windows XP, microphone, web cam and permission to install software. Internet connection, minimum 0,5 Mbps.

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0005	Assignment reports	U G#	10	Mandatory	A14	
0006	Project tasks	U G VG *	5	Mandatory	A14	

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 2021-02-25

Syllabus established

by Institutionen för industriell ekonomi och samhällsvetenskap 2009-02-22