



ID2208 Programming Web-Services 7.5 credits

Programmering av Web-tjänster

Course syllabus for ID2208 valid from Autumn 08

This is a translation of the Swedish, legally binding, course syllabus.

Grading scale: A, B, C, D, E, FX, F

Education cycle: Second cycle

Main field of study: -

Intended learning outcomes

The course explores Web services from two perspectives:

- as a technology designed for publishing software services to the Internet
- as a general-purpose architecture that triggers a fundamental shift in the way that all distributed systems are created.

The main goal of the course is to give students knowledge about basic methods and techniques in Web services and to provide an insight into current and future directions of the area.

During the course students should learn:

1. What is Web services and Service Oriented Architecture. This means that students should understand what Web services offer as a new and evolving paradigm for building distributed applications
2. What are main Web services standards. This means that students should understand principles of Web service messaging, description and discovery that enable any organization or individual to make its digital assets available.
3. What are basic components of Web services technology that are above the messaging, description and discovery. This means that students should learn about methods of Web service coordination, composition and security and policy as well as dealing with states in Web services.
4. How to utilize semantics in Web services. This means that students should learn about principles of semantic Web services

Course main content

Introduction and basic concepts of Web services. Basics of markup languages and XML. XML messaging (SOAP). Web Service description (WSDL). Web Service discovery (UDDI). WS-Policy description. Web services coordination (WS-Coordination and WS-Transaction). Web Service composition methods (BPEL4WS). Web services security. Semantic Web Services (RDF and OWL-S). Web services and stateful resources. Future trends. Practical part of the course includes exercises and a project involving implementation of Web services

Language of instruction

Language of instruction is specified in the course offering information in the course and programme directory.

Eligibility

Literature

Text-book and papers to be provided in the course

Examination

- ANN1 - Assignment, 3.0 credits, grading scale: P, F
- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F

Requirements for final grade

Written examination (TEN1 4.5hp.)

Homework and project assignment (ANN1 3hp.)

Grading scale: A/B/C/D/E/Fx/F