



# ID2208 Programming Web-Services 7.5 credits

## Programmering av Web-tjänster

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

If the course is discontinued, students may request to be examined during the following two academic years

## Establishment

On 2019-10-15, the Head of School of EECS has decided to establish this official course syllabus to apply from the spring semester 2020 (registration number J-2019-0565).

## Grading scale

A, B, C, D, E, FX, F

## Education cycle

Second cycle

## Main field of study

Computer Science and Engineering

## Specific prerequisites

Completed course in basic Programming and Java corresponding to ID1018 programming I.

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

## Intended learning outcomes

After passing the course, the student shall be able to

- formulate definitions of main concept and methods for web services
- evaluate and use the main concepts and the methods in the area for web services and service oriented architectures.

## Course contents

- Introduction and basic concepts for web services.
- The bases of markup languages and XML.
- XML messages (SOAP).
- Web Service Description (WSDL).
- Web Service Discovery (UDDI).
- WS policy description.
- Coordination of web services (WS coordination and WS transaction).
- Web service composition methods (BPEL4WS).
- Web service security.
- Services of the semantic web (RDF and OWL-S).
- Web services and resources.
- Future trends.

Practical part of the course contains exercises and a project that includes implementation of web services.

## Examination

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

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

TEN1 is a written examination.

## Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.