



Faculty of Arts and Social Sciences
Information Systems

Syllabus

Portable Formats

Course Code:	ISGB13
Course Title:	Portable Formats <i>Portabla format</i>
Credits:	5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has less than 60 credits in first-cycle course/s as entry requirements (G1F)

Major Field of Study:
IKA (Information Systems)

Course Approval

The syllabus was approved by the Faculty of Arts and Social Sciences 2017-02-23, and is valid from the Autumn semester 2017 at Karlstad University.

Prerequisites

Admission to the Web and Multimedia Programme (SGWOM) and attended courses ISGA11 HTML and CSS for web development 5 ECTS cr, and ISGB15 JavaScript for web development 5 ECTS cr or equivalent.

Learning Outcomes

Upon completion of the course, students should be able to:

- conduct basic tests of the compatibility of web documents in different browsers,
- examine web documents in relation to standards of web accessibility,
- discuss how to structure and organize data with the purpose of transferring it between different web services, applications and information systems,
- give an account of two data formats (XML and JSON) for structuring, organising and exchanging information on the web, and,
- practically apply the data format and techniques for transferring data between different web services, applications and information systems.

Content

The course alternates between theory and practice. Students conduct tests on the basis of web standards and evaluate the compatibility of web pages in different web browsers. XML and JSON, two standards for data transfer between different web services and/or information systems are introduced. By applying the two formats in combination with already acquired web development knowledge, students are expected to solve implementation assignments in a course project.

Beyond scheduled hours, students also independently search for information on ongoing work on standardization of these data formats, information to solve laboratory tasks and to prepare

submissions.

Instruction is in the form of lectures, laboratory sessions and workshops.

Reading List

See separate document.

Examination

Assessment is based on an oral Individual exam and written individual assignments.

Grades

One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.