

IMT4002 Recent Advances in Web Technology - 2010-2011

Course code:

IMT4002

Course name:

Recent Advances in Web Technology

Course level:

Master (syklus 2)

ECTS Credits:

10

Duration:

Vår

Language of instruction:

English

On the basis of:

IMT4892 Digital Workflow

Expected learning outcomes:

After successful completion, the students will be capable of:

- Explaining and discussing the challenges and issues faced in the development of the next generation web - the semantic, service-oriented, mobile, and social web
- Discussing the principles, technologies, and standards being used to build the next generation web
- Developing applications for the next generation web

Topic(s):

- The next generation web
- Semantic web fundamentals
- Introduction to semantic web technologies
- Principles of service-oriented computing
- Service and knowledge modeling and representation
- Transactions and service processes
- Social web fundamentals
- Mobile web fundamentals
- Next generation web standards
- Opportunities and challenges for businesses, users, and society
- Developing next generation web applications

Teaching Methods:

Lectures

Group works

Net Support Learning

Project work

Teaching Methods (additional text):

The project work will be performed in groups consisting of 2-3 students each.

The course will be offered both as an ordinary campus course and as a course that is offered in a flexible way to off-campus students. Lecture notes, e-lectures and other types of e-learning material will be offered through an LMS. Communication between the teachers and the students, and among the students, will be facilitated by the LMS.

Form(s) of Assessment:

Written exam, 5 hours

Evaluation of Project(s)

Form(s) of Assessment (additional text):

- Exam counts for 60%
- Project counts for 40%
- Both parts must be passed individually

Grading Scale:

Alphabetical Scale, A(best) – F (fail)

External/internal examiner:

Internal and external examiner for the written exam.

Internal examiner for the project work.

Re-sit examination:

Ordinary re-sit examination is offered for the written exam.

Tillatte hjelpemidler:**Examination support:**

English translation dictionary.

Coursework Requirements:

Three status reports must be submitted according to a plan which will be presented at the start of the course.

Academic responsibility:

Faculty of Computer Science and Media Technology

Course responsibility:

Professor Rune Hjelsvold

Teaching Materials:

Textbook:

- M. Singh and M.N. Huhns, Service-Oriented Computing, Wiley Blackwell, 2004, ISBN-10: 0470091487

Other:

- Note handouts and research papers

Replacement course for:

Parts of IMT4501 XML og Web Technologies

Publish:

Yes