



GRA 2354 Enterprise Modeling with UML

Studium

Siviløkonomstudiet (spesialisering)

Kursansvarlig

Erik Stensrud

Institutt

Teknologiledelse

Semester

Vinter

Vekttall

2

Information technology (IT) is a crucial "enabler" of business performance improvement. Successful implementation of software in a business setting starts with clear, concise, unambiguous, detailed specifications of the system requirements. A lot of failed IT projects are due to poor specification of the requirements.

The Unified Modeling Language™ (UML) has emerged as the de facto industry-standard language for specifying, visualizing, constructing, and documenting the artifacts of software systems. The UML provides the application modeling language for:

- Business process modeling with use cases.
- Class and object modeling.
- Component modeling.
- Distribution and deployment modeling.

The course is highly relevant to students who desire to work as IT management consultants in firms like Accenture and Cap Gemini Ernst & Young. It is also relevant to general/functional managers and to CIO's (chief information officers) because fluency in UML will facilitate the communication with software engineers.

Mål

The learning objective of this course is to learn the UML concepts and methodology and the associated software tools, and thereafter apply the knowledge to analyse businesses and specify systems. A system in this context is the human organisation plus the "enabling" IT.

Forkunnskaper

Systems development or business process modeling knowledge is an advantage but not required.

Obligatorisk litteratur

Hans-Erik Eriksson and Magnus Penker, 'Business modeling with UML: Business patterns at work', Wiley Computer Publishing, New York 2000
UML 1.3 Documentation, <http://www.rational.com/uml/resources/documentation/index.jsp>

Anbefalt litteratur

None

Emneoversikt

Introduction to course

- Overview of UML
- Business process modeling with use cases.
- Class and object modeling.
- Component modeling.
- Distribution and deployment modeling. oduction to course

Dataverktøy

Required:
UML software
Internet browser (Netscape or Internet Explorer is preferred)
MS Office (Word, Powerpoint)
E-mail (Any Internet mail compatible)

Gjennomføring

The course has 30 contact hours which includes lectures, student presentations, discussions and case studies. Class participation is mandatory. The course will be scheduled in as seminars and workshops during the term. We intend to invite guest lecturers from the IT/Management consulting firms and industry

Eksamen

Term paper of group project

Group Project:

Students will work in groups of three to undertake a modeling project pertaining to a software system implementation. They will report back to the whole class in the form of a project report, poster exhibition, presentation and handouts. The idea is to get hands-on with UML modelling in an industrial context to supplement the theoretical ideas covered in class. Once the local organisation has been cleared with the instructor, students will proceed with the research project. The students should maintain regular communication with the instructor through email on their progress and also reach agreement with him or her on the final table of contents for the project. To foster shared learning, students will be given an opportunity to make two presentations of their research projects to the class during Week 5 (progress reports) and Week 10 (final presentations). Besides handouts for distribution, students should also prepare a short handout summarising their project findings for the rest of the class. Given that a key objective of the research project is to provide a mechanism for students to learn from each other about enterprise modeling in different industries, each group's project report will be made available to all other students.

Eksamenskode(r)

GRA 23541

Hjelpemidler til eksamen

Not applicable.

Kontinuasjon

At the next time the course is offered.