



# IV2032 Kravhantering 7,5 hp

## Requirements Engineering

När kurs inte längre ges har student möjlighet att examineras under ytterligare två läsår.

## Fastställande

Kursplan för IV2032 gäller från och med HT09

## Betygsskala

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

## Utbildningsnivå

Avancerad nivå

## Huvudområden

## Särskild behörighet

## Undervisningsspråk

Undervisningsspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

## Lärandemål

Requirements engineering (RE) plays a fundamental role within the systems development process. The goal of this course is to bring in the concepts, methods and techniques needed in the eliciting, analyzing, documenting, validating, and managing requirements for complex information systems. It explains how requirements engineering fits into a broader systems development process, and provides an understanding of the main challenges in requirements

engineering nowadays. The students will learn how to:

- Identify stakeholders and their influence on the system requirements.
- Specify functional requirements using different modeling methods.
- Identify and classify non-functional requirements, influences and constraints.
- Negotiate and prioritize requirements.
- Validate requirements.
- Document and trace requirements using computer-based tools.
- Manage changing requirements and establish traceability of changes.
- Practice the different roles in the requirement engineering process, by working in groups.
- Analyze the practical use of the latest scientific contributions within the RE subject.

## Kursinnehåll

Since requirements management is a multidisciplinary field and closely related to areas such as general management, project and product management, product marketing, and industrial design, students from a variety of disciplines can benefit from this course.

The following subjects will be handled during the course:

- Roles and actors in the requirement engineering process.
- Classification of requirements.
- Contemporary methods for collecting and analyzing stakeholder requirements.
- Techniques for validation of quality of collected requirements.
- Computer-based tools for documenting and managing requirements.
- Techniques for linking requirements to design models and vice-versa.

## Kurslitteratur

Preliminary:

Gerald Kontonya and Ian Sommerville: Requirements Engineering: Processes and Techniques, John Wiley & Sons, 2002, 0471972088

Course outline

Lecture slides

Reading articles

## Examination

- PRO1 - Projektarbete, 3,5 hp, betygsskala: P, F
- TEN1 - Tentamen, 4,0 hp, betygsskala: A, B, C, D, E, FX, F

Examinator beslutar, baserat på rekommendation från KTH:s handläggare av stöd till studenter med funktionsnedsättning, om eventuell anpassad examination för studenter med dokumenterad, varaktig funktionsnedsättning.

Examinator får medge annan examinationsform vid omexamination av enstaka studenter.

The course examines through a project and a written exam.

The written exam concerns grades F, Fx, E, D, C, B, and A, and for the project applies P or F.

For the course as a whole, applies the grade from the exam and passed project.

## Etiskt förhållningssätt

- Vid grupparbete har alla i gruppen ansvar för gruppens arbete.
- Vid examination ska varje student ärligt redovisa hjälp som erhållits och källor som använts.
- Vid muntlig examination ska varje student kunna redogöra för hela uppgiften och hela lösningen.