



EH2790 Kravhantering, introduktionskurs 4,5 hp

Requirements Engineering, Introductory Course

Fastställande

Kursplan för EH2790 gäller från och med HT13

Betygsskala

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

Utbildningsnivå

Avancerad nivå

Huvudområden

Elektroteknik

Särskild behörighet

För fristående kursstuderande: 120hp samt engelska B eller motsvarande

Undervisningsspråk

Undervisningsspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

Lärandemål

Upon course completion, a participants shall be able to:

- Explain and give examples of the context of requirements engineering. Specifically to
- Explain the significance of the early phases in development and procurement projects
- Explain the difference between market driven and customer driven development
- Explain what signifies requirements engineering in a development and a procurement project.
- To explain and give examples of common process phases of requirements engineering and for each process phase explain and give examples of common
- Participants and stakeholders
- Documents
- Activities
- Methods
- Tools
- Describe and apply methods for modeling systems and system environments from technical as well as business oriented perspective and based on such models to
- Elicit system requirements
- Determine system constraints
- Explain methods for formal evaluations of tender offers from system suppliers.
- Analyze and appreciate the utility of using different methods, or combination of methods, for requirements elicitation given a set of circumstances.
- Apply established methods and tools for requirements elicitation from different stakeholders
- Apply rules of documentation for requirements specifications
- Describe and apply methods for requirements analysis and negotiation, specifically to
- Describe available methods for requirements prioritization and to apply at least one of these methods.
- Apply methods and tools for requirements management from a life-cycle perspective, i.e. from the birth of the development/procurement project to the delivery and operations of the product.

Kursinnehåll

The main topics of the course are:

- The role of Requirements Engineering in the software development process.
- The role of Requirements Engineering in the software procurement process
- The difference between the User Needs Statement and the requirements specification
- The concept of stakeholders
- Creation of a vision statement for a system and identify stakeholders
- The difference, and be able to identify, design constraints and requirements.

Examination

- SEM1 - Föreläsningsserie, 1,5 hp, betygsskala: P, F
- PRO2 - Projektuppgift, 1,5 hp, betygsskala: P, F
- PRO1 - Projektuppgift, 1,5 hp, betygsskala: P, 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.

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

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.