KURSPLAN

Produktspecificering och kravhantering, 6 högskolepoäng

Product Specification and Requirements Management, 6 credits

Kurskod:	TPKS26	**Utbildningsnivå:**	Avancerad nivå
Fastställd av:	VD 2016-09-01	**Utbildningsområde:**	Tekniska området (95%) och samhällsvetenskapliga området (5%)
Gäller fr.o.m.:	2016-08-01	**Ämnesgrupp:**	DT1
Version:	1	**Fördjupning:**	A1F
Diarienummer:	JTH 2016/3548-313	**Huvudområde:**	Produktutveckling

Lärandemål

After completing the course, the student shall

Kunskap och förståelse
- be familiar with the fundamental concepts of product specification
- display knowledge of the different roles engaged in product specification
- demonstrate comprehension of the methods and techniques for eliciting, capturing and documenting requirements

Färdighet och förmåga
- be familiar with the fundamental concepts of product specification
- display knowledge of the different roles engaged in product specification
- demonstrate comprehension of the methods and techniques for eliciting, capturing and documenting requirements

Värderingsförmåga och förhållningssätt
- be familiar with the fundamental concepts of product specification
- display knowledge of the different roles engaged in product specification
- demonstrate comprehension of the methods and techniques for eliciting, capturing and documenting requirements

Innehåll

The course serves as a retrospective of previous courses in software engineering and thus draws out the importance of requirements management as a means of ensuring successful software product delivery. It covers how to discover and capture requirements, and how to shape and structure them into a product specification. The focus is on the practical steps, models and techniques needed to obtain a complete, relevant and rigorous set of requirements to guide product development.
The course includes the following topics:
- Engaging with product stakeholders
- The roles of the product owner, the business analyst and the systems analyst

- Capturing and documenting requirements (including use cases, user stories and product backlogs)
- Using models to conduct robustness analysis
- Formal requirements specifications
- Tracking requirements, and their changes, through development to delivery
- Requirements negotiation (including QFD, Quality Function Deployment)

Undervisningsformer

The course will consist of lectures, seminars, exercises and practical work.

Undervisningen bedrivs på engelska.

Förkunskapskrav

Passed courses at least 90 credits within the major subject Computer Engineering, Electrical Engineering (with relevant courses in Computer Engineering) In addition, completed courses Product Development in Cross-discipline Teams 1, 6 credits and (Software Product Architectures - From Chip to Enterprise, 7,5 credits and Software Product Quality Assurance, 6 credits) or (User Experience Design and Enterprise Architecture, 6 credits and IT Architecture, 7,5 credits). Proof of English proficiency is required. (eller motsvarande kunskaper).

Examination och betyg

Kursen bedöms med betygen 5, 4, 3 eller Underkänd.

The final grading of the course is based on a weighted fusion of written exam and project work.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Tentamen	2 hp	5/4/3/U
Inlämningsuppgifter	1 hp	U/G
Projektarbete	3 hp	5/4/3/U

Övrigt

Exemption from entry requirement allowed according to the selection groups of the program, where the course is included.

Kurslitteratur

The literature list for the course will be provided one month before the course starts
Main textbook:
Software Requirements
by Karl Wiegers and Joy Beatty, Microsoft Press, 2013, 3rd Edition.
Additional literature:

User Story Mapping: Discover the Whole Story, Build the Right Product
by Jeff Patton and Peter Economy,
OReilly, 2014.

Agile Software Requirements: Lean Requirements for Teams, Programs, and the Enterprise
by Dean Leffingwell,
Pearson Education, 2011.
Agile Product Management with Scrum: Creating Products that Customers Love
by Roman Pichler,
Addison-Wesley, 2010.