Blekinge Institute of Technology
Department of Software Engineering

COURSE SYLLABUS

Kravhantering och Produkthantering

Requirements Engineering and Product Management

7,5 ECTS credit points (7,5 högskolepoäng)

1 Course title and credit points
The course is titled Requirements Engineering and Product Management/Kravhantering och Produkthantering and awards 7,5 ECTS credits. One credit point (högskolepoäng) corresponds to one credit point in the European Credit Transfer System (ECTS).

2 Decision and approval
This course is established by Dean 2016-08-30. The course syllabus was revised by Head of Department of Software Engineering and applies from 2017-08-28.
This course replaces PA1412
Dnr: BTH-4.1.1-0015-2017

3 Objectives
The course focuses on basic and advanced knowledge and skills within continuous requirements engineering and product management in large-scale development of software intensive systems and products in a changing and cost sensitive reality. The course provides the students with both a theoretical and practical application of methods and techniques for requirements engineering and product management.

4 Content
• Processes for continuous requirements engineering and product management
• Methods for continuous requirements engineering and product management
• Methods for finding the right stakeholders to the system
• Product strategies and business models
• Elicitation, Specification, Validation and analysis of requirements
• Quality assurance of requirements
• Release planning and prioritization of requirements
• Value-based requirements engineering
• Connecting product strategy, business model, and requirements, and subsequent development phases

5 Aims and learning outcomes
Knowledge and understanding
On completion of the course the student will:
• Understand and describe how requirements engineering and product management are conducted in terms of common processes and techniques
• Understand and describe the challenges of requirement engineering and product management
Competence and skills
On completion of the course the student will:
• Collect and document requirements in accordance with the industry standard
• Define a product strategy with its associated business model and align the strategy with the product's requirements.
Judgment and approach
On completion of the course the student will:
• Assess existing requirements engineering and product management practice in a software project or business
• Suggest relevant improvements of the requirements engineering and product management processes

6 Learning and teaching
The course will have traditional lectures and video lectures to introduce the subjects requirements engienring and product management. In parallel, the studetns will be given the opportunity to apply theroy in practice thorugh a project. The course ends with a written examination.
English

7 Assessment and grading
Examination of the course

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Code Module              Credit      Grade
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1710 Projekt Assignment     5 ECTS      A-F
1720 Written examination    2.5 ECTS    A-F
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The course will be graded A Excellent, B Very good, C Good, D Satisfactory, E Sufficient, FX Fail, supplementation required, F Fail.The total grade is based on a weighted average. Rounding occurs upwards.

8 Course evaluation
The course coordinator is responsible for systematically gathering feedback from the students in course evaluations and making sure that the results of these feed back into the development of the course.

9 Prerequisites
Completed courses of at least 120 ECTS credits of which 90 credits must be in the following areas: Software Engineering, Computer Science, informations Systems. In addition, a completed course of at least 7.5 credits in Software Engineering or a Team Software Engineering Project is required.

10 Field of education and subject area
The course is part of the field of education and is included in the subject area Software Engineering.

11 Restrictions regarding degree
The course cannot form part of a degree with another course, the content of which completely or partly corresponds with the contents of this course.

12 Course literature and other teaching material
Course book:
Software Requirements - Styles and Techniques
Author: S. Lauesen
Publisher: Addison-Wesley
Published: 2002, Number of pages: 600
ISBN: 0201745704
Additional research publications will be added before the course starts
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