Blekinge Institute of Technology
Department of Computer Science

COURSE SYLLABUS

Fördjupningskurs i Datavetenskap och kommunikation

Advanced Topic in Computing

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

1 Course title and credit points
The course is titled Advanced Topic in Computing/Fördjupningskurs i Datavetenskap och kommunikation 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 School of Computing 2013-05-28. The course syllabus was revised by School of Computing and applies from 2013-09-02. Reg.no: BTH 4.1.1-0441-2013

3 Objectives
The aim of the course is to enable students to develop specialised knowledge and understanding within a specific area within Computer Science or Software Engineering. The course is a direct preparation for a future Master's degree project.

4 Content
The course involves specialisation in an area within Computer Science or Software Engineering that is to be determined jointly by the student, lecturer/course director and supervisor.

5 Aims and learning outcomes
Knowledge and understanding
On completion of course the student will:
• have acquired advanced knowledge of a specific area within computer science or software engineering
• have orientation of current research within chosen area
Skills and abilities
In completion of course the student will:
• demonstrate an ability to articulate bases for a more extensive research work and to discuss and motivate choices
• be able to write a scientific text

Values and attitudes
In completion of course the student will:
• In general terms be able to argue about the various pros and cons of the chosen area of specialization
• In detail be able to argue about the various pros and cons of the area of specialization
• in a detailed way be able to explain and demonstrate an understanding of the principles and rationale behind the presentation of scientific results

6 Generic skills

7 Learning and teaching
The course consists of lectures, seminars and a final seminar. In this seminars, students will write short papers, which are presented and discussed in detail. The final written report can be done independently or in groups consisting of two students. The examination is individual and must be presented orally.
English

8 Assessment and grading
Examination of the course

Code	Module	Credit	Grade
	Seminars	3 ECTS	G-U
	Report	2 ECTS	G-U
	Examination[1]	2.5 ECTS	A-F

[1] Determines the final grade for the course, which will only be issued when all components have been approved.
The course will be graded A Excellent, B Very good, C Good, D Satisfactory, E Sufficient, FX Fail, supplementation required, F Fail.

9 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.

10 Prerequisites
The student must have succesfully completed 90 ECTS in Software Engineering or Computer Science and 30 ECTS on advanced level in these areas, or possess equivalent knowledge.

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

12 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.

13 Additional information
Replaces DV2508.

14 Course literature and other teaching material
Main literature
Literature is to a large extent scientific papers within the selected area. The papers are independently selected by the students in relation to the different projects during the course.
Reference literature
Projects in Computing and Information Systems. A Student's Guide
Author: Christian Dawson
Publisher: Addison Wesley; 2 edition
Published: 2009
Number of pages: 304
ISBN10: 0273721313; ISBN13: 978-0273721314
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