

5DV052 – Advanced Data Models and Systems

March 27, 2009

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1 Schedule

Week	Date	Time	Room	Topic (event)
13	Fri 27-Mar	13.15 - 15	MA406	Introduction, Review of relational databases
13	Fri 27-Mar	15.15 - 17	MA406	Conceptual modeling, Extended relational
14	Tue 31-Mar	13.15 - 15	MA406	Temporal databases
14	Fri 03-Apr	13.15 - 15	MA406	Spatial databases
15	Tue 07-Apr	13.15 - 15	MA406	Multi-dimensional databases/ Data warehouses
15	Tue 07-Apr	15.15 - 17	MA406	Deductive Databases I
17	Tue 21-Apr	13.15 - 15	MA406	Deductive Databases II
17	Fri 24-Apr	13.15 - 15	MA406	Semi-structured Databases and XML
18	Tue 28-Apr	13.15 - 15	MA406	Data Mining
19	Tue 05-May	13.15 - 15	MA406	Miscellaneous
19	Fri 08-May	13.15 - 15	MA406	Miscellaneous
20	Tue 12-May	13.15 - 15	MA406	Paper presentations
20	Fri 15-May	13.15 - 15	MA406	Paper presentations
21	Tue 19-May	13.15 - 15	MA406	Paper presentations
22	Tue 26-May	13.15 - 15	MA406	Paper presentations
22	Fri 29-May	13.15 - 15	MA406	Review
23	Fri 05-Jun	16.00 - 22	Skrivsal 1	Exam 1
35	Fri 28-Aug	9.00 - 15	Skrivsal 7	Exam 2

2 Course Language and Readings

All lectures will be given in English, and all written work must be submitted in English. The ‘text’ for this course is a set of notes that I am writing [2] and a series of papers that will be made available on the course web-site¹.

¹The text used in the regular database course[1] may be helpful as well.

3 Grading System

300 points of the grade for the course will be based on a paper presentation by the student. In addition 100 points will be based on a system exercise. The remaining 600 points will be based on a written exam.

Total points (p)	Grade
$p \geq 800$	5
$800 > p \geq 650$	4
$650 > p \geq 500$	3
$p < 500$	U

4 Rules on Exercises and Paper Presentation

Students may work in groups of up to three persons on the system exercise but only alone must present one full paper (not a demo or tutorial paper) that was published at a VLDB, SIGMOD, IJCAI, KR, ER, PODS or ICDT conference. In addition I must approve the selected paper. Note that students who have not have an approved paper by **May 10**, will lose 100 points and will have a paper/project assigned by me.

The students must present the paper in a 20 minute talk with 10 minutes for questions. In all cases the students must write a well written 5 page report that further develops or proposes extensions to the given paper that they have presented.

References

- [1] R. Elmasri and S. Navathe. *Fundamentals of Database Systems 3rd edition*. Addison Wesley, 2000.
- [2] M. Minock. *Relational Representations*. unpublished manuscript, 2004.