1. Authorisation
The course plan has been authorised by the vice-dean of the Department of Mathematical Sciences on November 9, 2006, to be valid from July 1, 2007.

*Educational field:* Mathematical Sciences

2. Educational context
The course is part of the Bachelor Program in Mathematical Sciences. It is also open for students outside the program who meet the course prerequisites.

3. Prerequisites
A basic course in probability and statistics.

4. Goals and learning outcomes
After finishing the course the student should
- understand the fundamental concepts in the theory of reliability
- be able to apply basic methods analysing reliability of separate components and systems of components.

5. Course description
The course consists of lectures, exercises, and computer laborations. It addresses the following key issues:
- hazard functions
- coherent systems
- reparable systems
- Markov models
- TTT-transformers.

6. Literature
See separate list.
7. Assessment
Written final examination.

8. Grades
The grade levels are Fail (U), Pass (G), and High Pass (VG). A wish for an ECTS grade should be reported to the examiner at the beginning of the course.

9. Course evaluation
In the middle of the course the teacher arranges a feedback discussion with the students and at the end of the course the students will be asked to answer a questionnaire. The results of the questionnaire will be processed by the teacher together with student representatives.

10. Additional information