



LUNDS UNIVERSITET  
Lunds Tekniska Högskola

Appendix 1

11 May 2009

Reg. No.  
LTH 2009/350

Syllabus of the Degree Project for the Master of Science Degree in Engineering and the Master of Science Degree (Two Years) in Biotechnology, Food Technology and Nutrition, System-on-Chip, Water Resources, Wireless Communication, Photonics and Nanoscience

Approved by the dean of the Faculty of Engineering, Lund University, on 11 May 2009, and valid from 1<sup>st</sup> July 2009.

The course codes together with the titles of courses for which this syllabus is valid are given in a separate appendix.

**Higher Education Credits:** 30

**Grades Used:** Fail or Pass

**Cycle:** 2<sup>nd</sup>

**Language of Instruction:** English may be used as the language of instruction

**Lecturer(s)-in-Charge:** The Head of Department appoints one or more Senior Lecturers at Lund University to act as examiner(s) for each subject undertaken as a degree project. This means that all degree projects including those written by exchange students will be examined at Lund University. The examiner(s) decides(decide) on the grade to be awarded.

**Admission requirements:**

- The student accepted to the Master of Science in Engineering programme, 270 higher education credits, may commence work on the degree project when he/she has completed at least 210 higher education credits, including at least one second cycle course, that can be counted towards his/her degree.
- The student, accepted to the Master of Science in Engineering programme, 300 higher education credits, may commence work on the degree project when he/she has completed at least 240 higher education credits, that can be counted towards his/her degree.
- Students studying for the degree in Risk Management Engineering will be required to pass the course in “Risk Management Process”, VBR171, before commencing the degree project.
- The student, accepted to the master programmes, may commence work on the degree project when he/she has completed at least 60 higher education credits, that can be counted towards his/her degree.

Exemptions from these requirements can only be granted by the Education Committee and then only in exceptional circumstances. In order to commence the degree project, the student must demonstrate appropriate knowledge in the field of study covered by the project. It is the responsibility of the examiner(s) to ensure that this requirement is satisfied before work can begin.

**Assessment:** Written and oral examination. The student must pass all the parts of the

degree project, as specified in Content below, in order for his/her degree project as a whole to pass. The report is a public document and no part may be classified information. The examiner(s) may not take into account any advance information when assessing the report.

**Further information:** Before the student may commence work on the project the examiner(s) has(have) to approve the assignment and appoint a supervisor who will provide continuous supervision throughout the work on the project. Supervision is designed to ensure that, among other things, it is possible for the student to complete the project within a period of 20 weeks of full-time study. The student can only request supervision for a period of no more than 15 months. A supervisor will be appointed from persons the examiner deems suitable. The supervisor need not be a member of the academic staff of the Engineering Faculty. The examiner(s) is (are) not expected to provide the majority of the supervision. Notification of the degree project is to be made to the Student Services Centre before work on the project commences. The Centre checks that the student satisfies the requirements to commence work on the degree project. A copy of the final report of the degree project is filed in the departmental archives. Student Services will provide students with advice and directives concerning the role of a student examiner. Information about provisional regulations and regulations coming into force is given separately.

**Specialisation:** The course can be selected as an independent project for a Second Cycle degree.

**Type of course:** This constitutes a compulsory course for the degree of Master of Science in Engineering.

**Learning outcomes:** The aim of the degree project is for the student to develop and demonstrate the requisite knowledge to work independently as an engineer.

### **Knowledge and understanding**

To satisfy the requirements of the degree project the student shall

- demonstrate in-depth knowledge in the chosen field of engineering.

### **Skills and abilities**

To satisfy the requirements of the degree project the student shall

- demonstrate an ability to identify, formulate and handle complex issues in a critical, autonomous and creative manner,
- demonstrate an ability to be actively engaged in research and development and thereby contribute to the advancement of knowledge,
- demonstrate an ability to plan and execute advanced assignments within given limits using scientific methods conducive to engineering practice,
- demonstrate an ability to integrate the knowledge acquired in key qualifying courses within the programme of study in a critical and systematic manner,
- demonstrate an ability to give a clear account of and discuss orally and in writing his/her findings and the knowledge and arguments on which these are based, and
- be able to identify various sources of information, evaluate the relevance of this information to the problem in question and to be able to use the correct forms of documentation, in an autonomous manner.

### **Judgement and approach**

To satisfy the requirements of the degree project the student shall

- demonstrate an ability to assess his/her own degree project and those of other students with reference to relevant scientific, social and ethical aspects.

**Content:**

The degree project comprises:

- a written report in Swedish or English with a summary in English,
- a separate summary which is aimed at a popular science readership or is in the shape of a scientific article,
- the presentation of the degree project at a public seminar at the Faculty of Engineering and
- a critical examination of another student's degree project at a public seminar where it is presented.

The degree project is an independent project. It is to be executed individually or in groups of two. If the degree project is carried out as a group the contributions of each student must be clearly discernible.

The report is to be made available in a state suitable for examination at least one week before the seminar. The department is responsible for providing the requisite number of copies of the report for the seminar. The seminar can be timetabled for a day that is not within term time if the student, supervisor and examiner are in agreement. It is desirable, but not obligatory, that the report is scrutinised by a student also presenting a degree project at the seminar. The same report can be critically examined by several co-students. The summary, provided separately, will normally consist of 2-4 pages.

**Literature:** The course literature and other teaching material that is to be used is to be approved by the supervisor with due consideration taken of the nature of the degree project assignment.