LUND
UNIVERSITY
Faculty of Engineering, LTH
LTH Faculty-wide

Project Management in Research and Development Projects
(Projektledning i forsknings- och utvecklingsprojekt)

Project Management in R&D Projects is an elective faculty-wide third-cycle (PhD) course at the Faculty of Engineering. The course is intended for both future project managers and project participants.

Aim: The course aims to equip participants with skills and tools for creating added value through creativity and innovation in their research and development (R&D) projects. Additionally, the ambition is to enhance the knowledge on optimising results in R&D projects through the use of structured processes from the project management field and other complementary disciplines.

Learning outcomes:
Knowledge and understanding
For a Pass on the course, participants shall
- demonstrate knowledge of how to plan, organise, implement and control R&D projects
- exhibit fundamental understanding of how to effectively manage R&D projects so that objectives and key success criteria are established and efficiently achieved
- exhibit familiarity with innovation strategy and how it is executed by the new product portfolio
- demonstrate the ability to identify the best method to manage R&D projects in terms of resources, cost, time and stakeholders
- exhibit the ability to categorise activities, link them together, and assess progress along a defined course of actions
- demonstrate knowledge of project responsibilities and accountability
- demonstrate the ability to manage project risk and uncertainties
- demonstrate understanding of leadership styles for R&D projects.

Competence and skills
For a Pass on the course, participants shall
- demonstrate aptitude to appreciate tools and techniques for setting up and managing projects.

Judgement and approach
For a Pass on the course, participants shall
- establish awareness on projects as a method of work and innovation strategy.

Content: The course deals with key project methods focusing on the following: R&D project success criteria; clear definition of project specifications; planning methods

and techniques for R&D programmes; estimating R&D costs; obtaining and allocating resources; R&D organisation, addressing uncertainties in R&D projects; leadership styles for R&D projects; communication in R&D projects.

Instruction: The course consists of lectures, seminars, group work, individual reflection and literature surveys. Active participation in course activities and group work is a requirement.

Individual:	After each session, the students shall write a reflection on what they have learned and relate it to their own research project.
Group work:	Active participation, reflection and presentation of weekly case studies/exercises.

Assessment: For a Pass on the course, participants must attend 80 % of the scheduled course activities and participate actively in seminars and presentations.

Scope: The course corresponds to about 3 weeks of full-time work and to 5 credits in third-cycle (PhD) studies (with Pass and Fail as available grades), if this is in line with the individual study plan.

A current timetable is available on the course homepage.

Admission: To be admitted to the course, applicants have to be admitted to a PhD programme at LTH.

Selection: Priority is given to 1) students who have previously applied to the course and were eligible at the time, 2) students who are closest to finishing their PhD programmes.

Language: The course is taught in English.

Website: http://www.lth.se/omlth/kompetensutveckling/gemensamma_forskarutbildningskurser

Reading: Project Management for Research and Development: Guiding Innovation for Positive R&D Outcomes (Best Practices and Advances in Program Management Series) 2014 by by Lory Mitchell Wingate ISBN-13: 978-1466596290 ISBN-10: 1466596295

Course directors: **Radhlinah Aulin** (radhlinah.aulin@construction.lth.se)

Information on current teachers on the course is available on the course homepage.

Category: The course is a faculty-wide third-cycle (PhD) course at LTH.

Other: -