4A1014 Master's Project in Refrigerating Engineering 30.0 credits

Examensarbete inom kylteknik

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for 4A1014 valid from Spring 2015

Grading scale

G, D, U

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

Upon completion of the thesis project, the student should be able to:

• Formulate clear objectives that can be validated through appropriate scientific and/or engineering methods;

• Plan his/her own work appropriately to achieve the objectives;

• Assimilate related work in the field and link this to the task at hand;

• Employ a wide range of technical and non-technical tools and methods, either those that have been acquired previously or through learning new skills;

• If applicable, incorporate aspects related to sustainability, end-user or societal implications;

• Communicate results, in both oral and written form, with due respect to clarity, accuracy, and effectiveness;

• If applicable, critique a peer's technical work (oral or written) and be able to meet corresponding viewpoints on his/her own work

Course contents

MSc programs culminate in the degree (thesis) project, where students are expected to demonstrate independent mastery of a particular engineering problem employing a wide variety of skills. A variety of topics are appropriate for a thesis project, however the project must have significant technical components, have a clear link to the refrigerating engineering field, and, if applicable,contribute to sustainable development. Provided that a thesis project meets these requirements, and under the condition that competent guidance/supervision is available to the student throughout the thesis project period, the project may be carried out either in an academic environment (university, research institute, or equivalent) or in an industrial setting (power plant, energy consulting agency, or other industry/business).

Examination

• XUPP - Examination Question, 30.0 credits, grading scale: G, D, U

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Written report (XUPP; 30hp)

Assessment:

• Oral presentation

• Written reports at 1/3, 2/3 and final phases (XUPP; 30hp).

• Normally perform peer review either via critiquing a fellow student’s written report or oral presentation (opposition)

Other requirements for final grade

Written report (XUPP; 30hp)

Assessment:

• Oral presentation

• Written reports at 1/3, 2/3 and final phases (XUPP; 30hp).

• Normally perform peer review either via critiquing a fellow student’s written report or oral presentation (opposition)

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.