



HÖGSKOLAN I GÄVLE

Degree Project for a Master of Science (One Year) with a major in Energy Systems 15 cr

Examensarbete för magisterexamen i Energisystem 15 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at

Valid from

5/9/22

HT2023

Level	A1E
Education level	Second cycle
Course identifier	ETA701
Credits	15 cr
Main field of study	Energy Systems
Subject group	Energy Technology
Disciplinary domain	Technology 100.0 %

Learning outcomes After completion of the course the student shall be able to

Knowledge and understanding

1. demonstrate good competence in information literacy, including understanding of relevant scientific literature within the main field of study, as well as to use this literature in a correct manner in the thesis
2. present the research field including applicable methods and being able to put the student's own research in a wider context

Competence and skills

3. independently identify, define and methodically plan a degree project within the main subject area and carry out the same within given time frames
4. identify and acquire additional knowledge needed through literature studies
5. contribute to the main subject area's in-depth study and accumulated knowledge and demonstrate self-insight and a critical approach to one's own scientific work
6. give an oral and written account of a degree project and discuss its conclusions and the knowledge and arguments on which they are based

Judgement and approach

7. critically review and evaluate others' degree project

8. demonstrate the ability to make assessments within the main area with regard to relevant ethical and societal aspects and to follow good scientific practice.

Course content

Formulate and present a suitable thesis project in the main area of energy systems and write a project plan

Define and methodically plan the thesis project

Literature studies for knowledge deepening and studying of new areas

Communicate the thesis project and its results both in speech and writing

Oppose and discuss a degree project

Teaching

Supervision and self-study

Prerequisites

Approved courses of at least 30 credits within the Master Programme in Energy Systems or equivalent

Examination

Oral and written presentation of the thesis assignment, opposition on another thesis assignment, and auscultation (participation) at two other thesis presentations

Grade

A, B, C, D, E, Fx, F

Other regulations

Degree criteria for final grade will be handed out by the course responsible or examiner latest at the beginning of the course.

The report is written either in Swedish or English. If the work is confidential, the thesis has to be presented in two versions. One complete version is presented to the examiner and supervisors, and another version to the public where confidential parts are omitted.

The thesis is defended publicly in a seminar. For approval, the student must also act as an opponent of another thesis and be present at the presentation of at least another two thesis works.

Sustainable environment

A minor part of the course content deals with sustainable development.

Module

0010 Master's Thesis

15 cr

Grade: AF