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Course Syllabus

Collaborative Research Project in Energy Systems 5 Credits, Third Cycle

Learning Outcomes

Upon completion of the course, students will be able to:

Competence and skills

- Discuss and contextualise the research of other doctoral students as part of a greater whole,
- Identify points of intersection between research topics in a research network,
- Plan and collaborate in a research study with other doctoral students,

Judgement and approach

- Reflect on different concepts and methods for interdisciplinary and multidisciplinary research,
- Evaluate and take a position on the need for changes based on constructive criticism of a scientific work

Course Content

The course starts with an overview of research areas and doctoral programmes, with focus on those programmes that the doctoral students are registered in. Based on this, there is discussion about different forms of collaboration, concepts about collaboration and methods for collaboration, including those that are inter- and transdisciplinary within the area of energy transition. Connections between different ongoing research projects are identified as are potential research gaps. Based on this, a research plan for a collaborative project is defined that involves both doctoral students and supervisors. At a seminar, the plan and the project results undergo a peer review with the supervisors of the doctoral students. The collaboration will result in either an article for submission to a peer-reviewed journal or a presentation. During the project, supervision will be provided as described in the research plan.

Assessment

• Assignments
• Seminars

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Grades
The Swedish grades U–G.

Grades are reports as follows:
• Research plan, 2 credits
• Manuscript, 2,5 credits
• Individual report, 0.5 credits

Prerequisites
To be admitted to the course, students must either have been admitted to the doctoral programme Energy Systems in the Built Environment or have a relevant thesis subject at Dalarna University or another higher education institution. Doctoral students who have not been admitted to a doctoral programme at Dalarna University are accepted subject to space in the course

Other Information
There must be at least two students per course project. The language of instruction is English.

Subject:
Energy Systems in the Built Environment

Approved:
Approved 31 October 2023
Valid from 31 October 2023