

Course syllabus – Doctoral course

Name

Methods in Interdisciplinary Energy Systems Studies

Course objectives

After completion of the course the PhD student is to be able to:

- describe quantitative and qualitative research methods used in the field of energy systems studies
- appraise and reflect upon research methods used in the field of energy systems studies
- reflect upon and discuss methodological issues in relation to energy systems methods, for example validity, reliability, and uncertainty
- appraise and reflect upon mixed-method research
- describe and discuss how different methods could be combined and used in the individual student's research project assignment
- make use of the network between course participants

Content

The course covers different methods used in energy systems research from a variety of fields and perspectives. Mixed-method research is presented and discussed in the course. The choice of methods is based on the needs of the participating doctoral students and research projects.

Target group

Doctoral students who are interested in energy systems research are the target group, but in particular doctoral students who are accepted to Forskarskola Energisystem (FoES).

Instruction

The course has obligatory gatherings (2-3 days each time) and in between these gatherings, different types of web support are used for the work. The course is held in English.

The course is held in the form of lectures, seminars, group work and individual work. A part of this work is carried out during the obligatory gatherings while other parts are carried out in between the obligatory gatherings e.g. via a web tool.

Literature

Course literature will be presented at the course introduction.

Examination

- Individual assignment
- Conduct a lecture on methods or give feedback on lectures by other participants
- Obligatory attendance and active participation in all parts of the course

Credits

7.5 HEC (ECTS)

Other

The obligatory gatherings are held in different places in Sweden. The course is provided by Forskarskola Energisystem (FoES).

The number of course participants is limited to around 20. Doctoral students being part of Forskarskola Energisystem (FoES) will be given preference and other participants will be chosen depending on their academic background and when their application to the course arrives. The course committee has the right to choose participants for the course so that a good mix of backgrounds of the doctoral students is obtained.

The course pays regard to equal opportunities. Its goal is to make active use of the resources that students with different backgrounds, life situations and competences bring to the education.