

## **Course Plan – PhD course**

### **Name**

Energy Systems

### **Course objectives**

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

- appraise and reflect upon different perspectives on energy systems thinking and energy systems analyses
- describe and reflect upon the energy system's development and dynamics at different levels
- discuss and contextualize the individual PhD student's research assignment as part of a greater whole
- use the network between the course participants

### **Content**

The course covers issues concerning the area of energy from both a technical and social science perspective such as:

- Energy systems thinking and understanding of energy systems analyses
- Socio-technical energy systems
- Energy system transformation
- Energy supply, energy efficiency and energy use

### **Prerequisites**

Doctoral students enrolled in a relevant subject area.

### **Target group**

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

### **Organisation**

The course consists of 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, study visits, 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 written assignment
- Opponent for another individual essay
- Active participation in all parts of the course, such as seminars, workshops and study visits.
- Preparations for seminars, workshops and study visits (in accordance with the guidelines presented in the course)

## **Credits**

7.5 HEC (ECTS)

## **Other information**

The obligatory gatherings take place at different places in Sweden. The course is provided by Forskarskola Energisystem (FoES).

The number of course participants is limited to around 12. The course committee has the right to choose participants for the course so that a good mix of backgrounds of the doctoral students is maintained. The doctoral students being part of Forskarskola Energisystem (FoES) are to be given preference and participants will also be chosen depending on when their application to the course arrives and their academic background.

The course is conducted in such a way that both men's and women's experience and knowledge are visualized and developed.

For more information see: <https://liu.se/en/research/graduate-school-in-energy-systems>