Stockholm school energy storage

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Note: The course is conducted through lectures, counting exercises and computer base simulation. It contains an extensive work (case study). In addition to the scheduled lectures, exercise and project required self-study. The work with the case study is mainly carried out by means of self-studies and in group. Project Report on case study will be an important part of the final examinations.

To pass the course (grade G), the student needs to show that the course’s learning objectives are met at the basic level within 3 of the course’s main content and pass the exam.

For the grade ‘well approved’: Meet the requirements for G and show greater breadth at the basic level or greater depth at the advanced level in their knowledge and skills in all parts of main content through deep understanding and analysis of the questions on the exam.

The student shows the inadequate results in relation to the requirements for this course. Further work is required in order to meet the objectives of education and training.

The master"s programme in Sustainable Energy Engineering provides advanced education in solar energy, power generation, energy utilisation and transformation of energy systems. Students gain a multidisciplinary foundation in energy engineering and skills to manage complex energy-related problems with a lifecycle perspective. Graduates lead the development in the energy sector with skills and insights in industrial challenges, leadership, innovation and entrepreneurship.

15 October (2024): Application opens15 January: Last day to apply3 February:Submit documents and, if required, pay application fee27 March:Admission results announced

The master"s programme in Sustainable Energy Engineering equips you with skills and insights into leadership, industrial challenges, innovation and entrepreneurship in the energy field. The programme provides an atmosphere and learning environment that fosters global responsibilities and sustainable development. Therefore, the emphasis is placed on dealing with energy engineering tasks with due consideration of technical, environmental and socio-economic issues for applications especially in Sweden, but as all over the globe as well.

The first semester of the programme is an intensive introductory period with broad-based coursework in energy engineering, including conversion technologies, systems and applications. Participants follow a learning path in advanced-level energy engineering courses, where their pre-requisite knowledge in thermodynamics, fluid mechanics, and heat transfer is put to use in challenge-based problem-solving. Advanced methods are applied to identify, describe, quantify and find solutions to a diverse range of energy engineering problems.

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More than 70 per cent of the world and European population live in urban areas. Energy systems in buildings and cities play a pivotal role in driving economic growth, ensuring the well-being of citizens, and mitigating the environmental impact of unprecedented urbanisation at the global level. The SEE profile "Energy in Buildings and Cities" focuses on the engineering challenges and opportunities for energy systems in the current and future urban areas.

The future energy engineers and managers must be able to analyse the complex energy systems at the district/city level. However, an impactful analysis of energy systems at the district/city level is hard to achieve without going through the complexity of the system components and proper understanding of the behaviour of the various energy technologies. Therefore, this profile has been designed to provide an adequate knowledge of urban energy systems at both technology and district/city levels.