**Research areas for projects / master thesis**

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| **Professors and researchers at KTH i.e. 2nd-year university.** | **Professors at Aalto i.e. 1st-year university.** | **Research area** |
| Following Professors and Researchers are available in the field of Energy Systems Analysis, Department of Energy Technology, KTH.   * Prof. Francesco Fuso Nerini (Energy and sustainability, energy access, cities) * Prof. Will Usher (energy modelling, optimization, python) * Prof. Viktoria Martin (energy storage and modelling) * Francesco Gardumi (energy modelling, European energy ststems) * Vignesh Sridharan (Climate, Land, Energy and Water analyses) * Alexandros Korkovelos (Energy access) * Dilip Khatiwada (Bioenergy systems) | * *Mika Järvinen, Aalto, Department of Mechanical Engineering* * *Martti Larmi, Aalto, Department of Mechanical Engineering* * *Risto Lahdelma, Aalto University, Department of Mechanical Engineering* * *Prof. Sanna Syri, Aalto University, department of Mechanical Engineering* * *Prof. Ville Vuorinen, Aalto University, department of Mechanical Engineering* * *Prof. Annukka Santasalo-Aarnio, Department of Mechanical engineering* | *Development of a local, national, regional or global energy assements. Focusing on relevant issues such as: The role of specific technologies or systems of technologies, the impact on the environment, system economics.* |

**Degree requirements for admission process**

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| A BSc degree corresponding to a minimum 180 ECTS credits in the following fields: | *Economics. Engineering.* |
| Applicants that are enrolled in an integrated five year degree with no bachelor level: | *Economics. Engineering.* |
| A BEng in … Engineering is accepted for start at … | *Economics. Engineering.* |
| Applicants with a BEng in …, or a BSc or BEng in …, will be considered on an individual basis. | *Economics. Engineering.* |
| The applicant’s qualifications must include a strong working knowledge of mathematics and …, and applicants must document that they have fulfilled the following minimum requirements: | *The minimum requirements include the following:*  *- Mathematics: 20 ECTS including linear algebra, calculus and differential equations.*  *- Statistics and probability theory: 5 ECTS.*  *- Thermodynamics and heat transfer: 5 ECTS*  *Moreover, the applicant must have sufficient qualifications within numerical methods and elementary programming using e.g. MATLAB or a similar programming language.* |
| Applicants with a Polytechnic (FI), Högskoleingenör (SE) and Diplomingeniør (DK) degree may be expected to do extra course work to qualify for the programme. | *No* |