



The Nordic Master programme

**Innovative and Sustainable
Energy Engineering
(ISEE)**

**A joint program of universities in Denmark, Finland,
Iceland, Norway, and Sweden**

Professor Peter Gudmundson

Partner universities



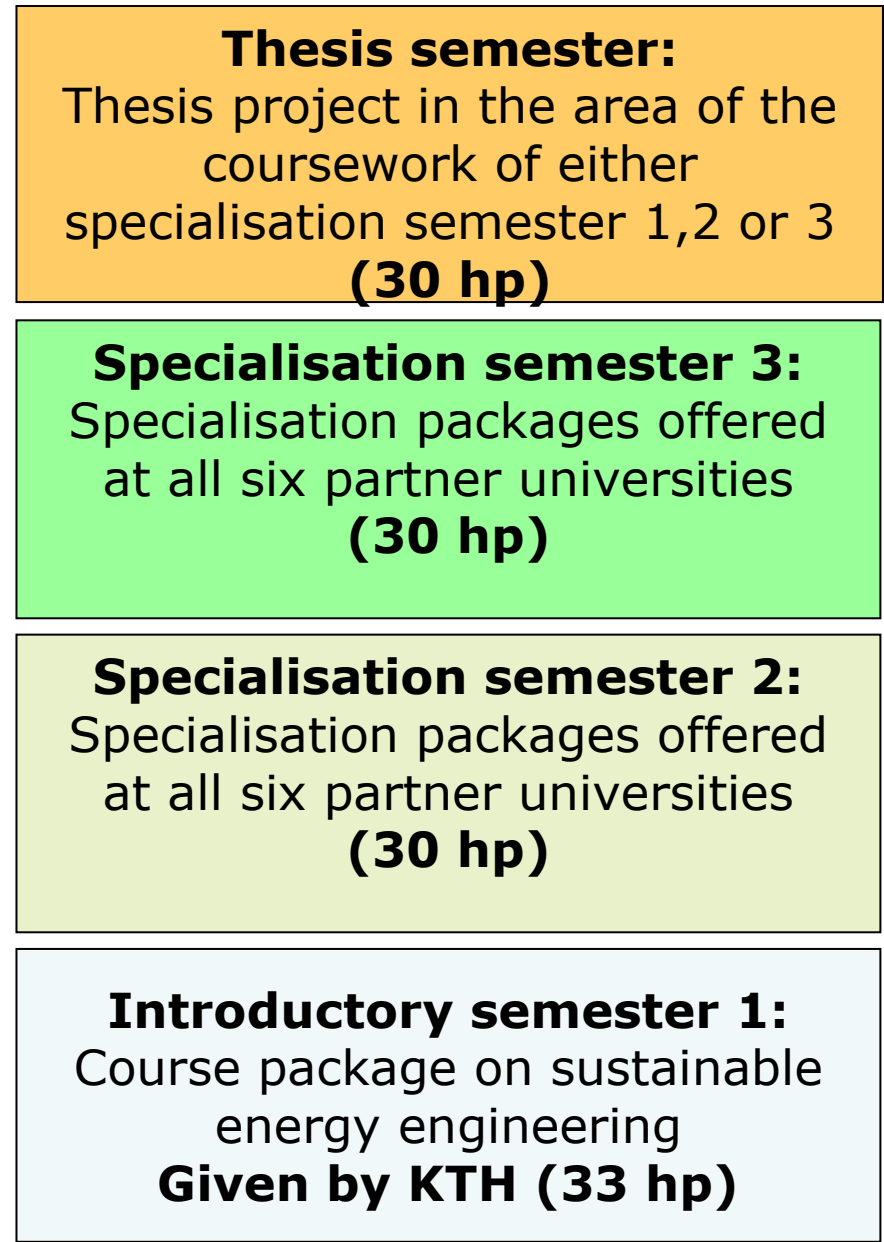
- KTH Royal Institute of Technology
- Helsinki University of Technology – Aalto university
- Technical University of Denmark
- Norwegian University of Science and Technology
- Chalmers University of technology
- University of Iceland

The Nordic Master programme ISEE in relation to other programmes



- Interaction with other MSc programmes at partner universities
- **At KTH:**
MSc-programme: “Sustainable Energy Engineering”
Erasmus Mundus: ME3 (Nantes), [SELECT](#) & [THRUST](#) (KTH)
- Nordic Master – large offer of specializations

Structure of the ISEE Program



Year 2

Year 1

Specialisation course packages



At KTH:

- Energy utilization
- Power generation

At TKK:

- Energy and environmental management

At DTU:

- Wind turbine technology
- Electricity from wind turbines

At NTNU:

- Natural gas technology
- Industrial ecology

At Chalmers:

- Energy economics, systems and policy
- Combustion, heat transfer and thermal power engineering

At HI:

- Geothermal energy

Applications and admitted students

Applications received: 437
Admitted students: 46
First intake (Sept 2009): 31



Africa:	5	Europe:	7
Ethiopia	3	Finland	1
Ghana	1	France	1
Uganda	1	Iceland	1
		Netherlands	1
Asia:	14	Sweden	2
Bangladesh:	1	Turkey	1
China:	1		
India:	5	North America:	3
Iran:	2	Canada	1
Pakistan:	4	USA	2
Singapore:	1		
Australia:	1	South America:	1
		Chile	1

Contact persons at KTH:



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Erasmus Mundus Master's Programme: SELECT Environomical Pathways for Future Energy Services

Year 1

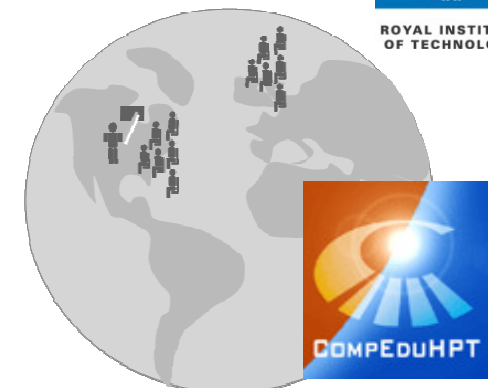
- **Basic introduction courses, thought remotely by all 5 partners: Renewable; Environomics (KTH, Sweden)**

Year 2: Two specialization options at each partner university

- **Related to: Polygeneration; Solar; Bio; Wind; Electricity**
- **Thesis Project with high involvement of industrial partners**

Vision: Highly integrated and interactivity between partners

- **Training in multidisciplinary problem analysis and solving**
- **Working in multinational teams**
- **Making efficient use of state-of-the-art electronic communication tools for bringing specialists together**
- **A unique network of fellow students, SELECT alumni and industry specialists in the field of sustainable energy.**



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Erasmus Mundus Master's Programme Turbomachinery Aeromechanics

Year 1

- Introduction to aeromechanics in turbomachines (KTH, Sweden)

Year 2 – one of the three options

1. Unsteady Aerodynamics (Duke, USA)
 2. Structural Vibration and Fatigue (AUTH, Greece)
 3. Aeromechanical & Material Design (ULG, Belgium)
- Thesis Project with high involvement of industrial partners

Highly integrated and interactive between partners

- Student and teacher mobility (“physical” as well as “virtual”)
- Unique, modern and highly interactive learning material
- Large potential for participation of active industrial persons

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