

International Energy Engineering Studienplan/Curriculum

| | | 1. Semester – SS | | 2. Semester – WS | | 3. Semester – SS | |
|------------|-----------------------------------------------------------|------------------|-----------|------------------|-----------|------------------|----------|
| | | ECTS | SWS | ECTS | SWS | ECTS | SWS |
| 1 | Compulsory Modules | 10 | 8 | 15 | 12 | | |
| 1.1 | Simulation of Energy Systems | 5 | 4 | | | | |
| 1.2 | Scientific Research and Methods | | | 5 | 4 | | |
| 1.3 | Innovation Management and Communication | | | 5 | 4 | | |
| 1.4 | International Energy Law and Energy Economics | 5 | 4 | | | | |
| 1.5 | Project with Seminar | | | 5 | 4 | | |
| 2 | Elective Modules* | 20 | 16 | 15 | 12 | | |
| 2.1 | Wind and Hydropower | | | 5 | 4 | | |
| 2.2 | Solar Energy | 5 | 4 | | | | |
| 2.3 | Digital and Integrated Energy Systems | 5 | 4 | | | | |
| 2.4 | Energy Storage | 5 | 4 | | | | |
| 2.5 | Electrochemical Energy Converters and Hydrogen Technology | 5 | 4 | | | | |
| 2.6 | Energy Efficiency | 5 | 4 | | | | |
| 2.7 | Sustainable Building Technology | | | 5 | 4 | | |
| 2.8 | Bioenergy | 5 | 4 | | | | |
| 2.9 | Plant and Equipment Design in Energy Technology | | | 5 | 4 | | |
| 2.10 | Concepts of Combined Heat, Power and Cooling | | | 5 | 4 | | |
| 2.11 | Sustainable Mobility | 5 | 4 | | | | |
| 2.12 | Methods fo Life Cycle Assessment | | | 5 | 4 | | |
| 2.13 | Energy Management with AI-Methods | | | 5 | 4 | | |
| 3. | Master Thesis | | | | | 30 | - |
| Sum | | 30 | 24 | 30 | 24 | 30 | - |

* Out of the electives seven modules have to be selected (35 ECTS-points in total). The offer depends on the election result.