

Module Overview M.Sc. Energy Science and Engineering (8 Semesters)

As per degree programme guidelines 01.04.2020, version 01.04.2020

The degree programme consists of 120 Credit Points (CP) in total:

Mandatory Subject Area: 6 - 36 CP ■ Optional Subject Area: 12 CP ■
 Elective Subject Area: 42 - 72 CP ■ Master's Thesis: 30 CP ■



This leads to the following *possible* semester course schedule:

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester	8. Semester		
<p align="center">Compulsory Courses Basis Modules (0 - 30 CP)* max. 7 of 8 modules</p> <ul style="list-style-type: none"> • Chemistry for Energy Scientists and Engineers • Electrical Engineering and Information Technology • Energy Finance • Energy Technologies in Civil Engineering and Architecture • Energy Technologies in Mechanical Engineering • Materials Science for Renewable Energy Systems • Principles of Business Administration • Renewable Energies, Energy Scenarios and Climate Protection <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p align="center">Interdisciplinary Energy Project IEP (6 CP)</p> </div>			<p align="center">Compulsory Elective Courses (42 - 72 CP) **/***</p> <p>Subject Area:</p> <ul style="list-style-type: none"> • Energy-related Building Design and infrastructure • Energieeffiziente Mobilitäts- und Transportkonzepte • Energy Materials • Renewable Energies and Technologies • Multitmodal Energy Systems and Sustainability Impact Assessment • Future Power Plant Technologies <p align="center">Cross-sectional Topics of Energy Science and Engineering (Cannot be chosen as subject area)</p>			<p align="center">Master's Thesis (30 CP)</p>			
<p align="center">Elective Courses(12 CP)*** Modules from the catalogue of TU Darmstadt</p>									
Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 20 CP	Ø 15 CP	Ø 15 CP		

* The allocation of modules takes place within the admissions procedure by the Examinations Board.

** At least 20 CP must be successfully completed in one subject area. This subject area is printed on the documents as an area of specialisation. The choice of a second specialisation is possible by completing at least 20 CP in another subject area and is also shown on the documents.

*** In the elective and compulsory elective area, a total of at least 5 CP from the range of courses offered by the departments of Law and Economics, History and Social Sciences and/or Human Sciences must be taken.