

## Module Overview M.Sc. Energy Science and Engineering (6 Semesters)

As per degree programme guidelines 01.04.2020, version 01.04.2020

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

<b>Mandatory Subject Area:</b> 6 - 36 CP		<b>Optional Subject Area:</b> 12 CP	
<b>Elective Subject Area:</b> 42 - 72 CP		<b>Master's Thesis:</b> 30 CP	



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

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester
<p><b>Compulsory Courses Basis Modules (0 - 30 CP)*</b> max. 7 of 8 modules</p> <ul style="list-style-type: none"> <li>• Chemistry for Energy Scientists and Engineers</li> <li>• Einführung in die Betriebswirtschaftslehre</li> <li>• Electrical Engineering and Information Technology</li> <li>• Energy Finance</li> <li>• Energy Technologies in Civil Engineering and Architecture</li> <li>• Energy Technologies in Mechanical Engineering</li> <li>• Materials Science for Renewable Energy Systems</li> <li>• Renewable Energies, Energy Scenarios and Climate Protection</li> </ul>			<p><b>Compulsory Elective Courses (42 - 72 CP) **</b></p> <p>Subject Area:</p> <ul style="list-style-type: none"> <li>• Energy-related Building Design and infrastructure</li> <li>• Energieeffiziente Mobilitäts- und Transportkonzepte</li> <li>• Energy Materials</li> <li>• Renewable Energies and Technologies</li> <li>• Multitmodal Energiy Systems ans Sustainability Impact Assessment</li> <li>• Future Power Plant Technolgies</li> </ul>	<p><b>Master's Thesis (30 CP)</b></p>	
<p><b>Interdisciplinary Energy Project IEP (6 CP)</b></p>				<p>Cross-sectional Topics of Energy Science and Engineering (Cannot be chosen as subject area)</p>	
<p><b>Elective Courses(12 CP)***</b> Modules from the catalogue of TU Darmstadt</p>					
Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP

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

\*\* Iat 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 spectalisation is possible by completing at least 20 CP in another scuject 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.