

# Module Overview B.Sc. Ingenieurwissenschaften und Mechanik - 12 Semesters

Degree programme guidelines as per 01.10.2023, Version: 01.10.2024 (SB2024I)

The degree programme consists of 180 Credit Points (CP) in total:

Mandatory Subject Area: 112 CP ■  
 - Including Project: 8 CP ■  
 Elective Subject Area: 48 CP ■

Interdisciplinary Elective Area: 8 CP ■  
 Bachelor Thesis: 8 CP ■

**Language of Tuition:**  
**GERMAN**  
*Certificates required*



This leads to the following *possible* part-time semester course schedule:

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester
Mathematics I (for ET) (8 CP)	Mathematics II (for ET) (8 CP)	Physics for ET (6 CP)	Statistics/ Probability Theory (ETIT) (4 CP)	Mathematics III (for ET) (8 CP)	Partial Differential Equations (6 CP)
Technical Mechanics I (8 CP)	Technical Mechanics II (8 CP)	Introduction to Chemistry I (3 CP)	Scientific Computing (4 CP)	Technical Mechanics III (8 CP)	Technical Mechanics IV (6 CP)
Orientation IWM I (1 CP)		Introduction to Programming I (3 CP)	Introduction to Programming II (3 CP)		
<b>Studium Generale</b> <i>General catalog of the TU Darmstadt</i> (8 CP)					
Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP
7. Semester	8. Semester	9. Semester	10. Semester	11. Semester	12. Semester
Technical Thermodynamics I (6 CP)	Technical Thermodynamics II (2 CP)	Engineering Electives  <i>Choice of 1 out of 4 majors:</i> - Higher Mechanics - Civil Engineering - Computational Engineering - Mechanical Engineering  (48 CP)			Bachelor Thesis (12 CP)
Mechanical Behavior of Materials (4 CP)	Technical Fluid Mechanics (6 CP)				
Project Course: Digitalization, AI and Data Science (8 CP)					
(8 CP)					
Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP