

Module overview B.Sc. Computational Engineering - 12 Semesters

Degree Programme Guidelines as per 01.06.2023, Version: 01.06.2023 (SB2023III)

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

Compulsory Courses: 113 CP ■ Area of specialisation: 50 CP ■
 Studium Generale: 5 CP ■ Bachelor's Thesis: 12 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	7. Semester	8. Semester	9. Semester	10. Semester	11. Semester	12. Semester
Mathematics for Mechanical Engineering I (8 CP)	Mathematics for Mechanical Engineering II (8 CP)	Functional and Objectoriented Concepts of Programming (10 CP)	Algorithms and Data Structure (10 CP)	Mathematics for Mechanical Engineering III (4 CP)	Elementary PDGL: Classical Methods (6 CP)	Introduction to the Numerical Computation of Electro-magnetic Fields (5 CP)	Scientific Working in CE (3 CP)				Bachelor's Thesis (12 CP)
Engineering Mechanics I (6 CP)	Engineering Mechanics II (6 CP)	Electrical Engineering and Information Technology I (7 CP)	Electrical Engineering and Information Technology II (7 CP)	Materials Technology (4 CP)	Statistics and Probability Theory (4 CP)	Introduction to AI (5 CP)	Practical Studies in CE (4 CP)	Area of specialisation Choice of one specialisation: <ul style="list-style-type: none"> Applied Mathematics und Mechanics Civil Engineering Electrical Engineering and Information Technology Computer Science Mechanical Engineering (50 CP)			
Introduction to CE Studies (1 CP)				Engineering Mechanics III (6 CP)	Scientific Calculations (4 CP)	Parallel Programming (5 CP)					
Studium Generale Modules from all departments from TU Darmstadt (5 CP)											
Ø 15 CP	Ø 14 CP	Ø 17 CP	Ø 17 CP	Ø 14 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 13 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP