Course of Study Technomathematics (Study Cohort w22)

Sample course plan F Bachelor Technomathematics (TMBS)
Specialisation I. Mathematics, Specialisation II. Informatics, Specialisation III. Engineering Science, Specialisation IV. Subject Specific Focus

Legend:

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP						
1	**Analysis for Technomathematicians (part 1)** Analysis I for Technomathematicians VL 4 Analysis I for Technomathematicians GÜ 2	**Analysis for Technomathematicians (part 2)** Analysis II for Technomathematicians VL 4 Analysis II for Technomathematicians GÜ 2	**Higher Analysis** Higher Analysis VL 4 Higher Analysis GÜ 2	**Foundations of Management** Introduction to Management VL 3 Management Tutorial GÜ 2	**Seminar Technomathematics** Seminar: Technomathematics SE 2	**Computability and Complexity Theory** Computability and Complexity Theory VL 2 Computability and Complexity Theory GÜ 2
2						
3						
4					**Introduction to Mathematical Modeling** Introduction in Mathematical Modeling VL 4 Introduction in Mathematical Modeling GÜ 2	
5						
6						
7				**Functional Analysis** Functional Analysis VL 4 Functional Analysis GÜ 2		**Compiler Construction** Compiler Construction VL 2 Compiler Construction GÜ 2
8						
9						
10	**Linear Algebra for Technomathematicians (part 1)** Linear Algebra 1 for Technomathematicians VL 4 Linear Algebra 1 for Technomathematicians GÜ 2	**Linear Algebra for Technomathematicians (part 2)** Linear Algebra 2 for Technomathematicians VL 4 Linear Algebra 2 for Technomathematicians GÜ 2	**Numerical Mathematics** Numerical Mathematics VL 4 Numerical Mathematics GÜ 2			
11						
12						
13						**Bachelor Thesis**
14					**Electrical Engineering III: Circuit Theory and Transients** Circuit Theory VL 3 Circuit Theory GÜ 2	
15						
16				**Optimization** Optimization VL 4 Optimization GÜ 2		
17						
18						
19	**Procedural Programming for Computer Engineers** Procedural Programming for Computer Engineers VL 2 Procedural Programming for Computer Engineers HÜ 1 Procedural Programming for Computer Engineers PR 2	**Programming Paradigms** Programming Paradigms VL 2 Programming Paradigms HÜ 1 Programming Paradigms PR 2	**Mathematical Stochastics** Mathematical Stochastics VL 4 Mathematical Stochastics GÜ 2			
20						
21					**Engineering Mechanics III (Dynamics)** Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1	
22						
23						
24						
25	**Introduction to Mechanics (Technomathematics)** Introduction to Mechanics VL 3 Introduction to Mechanics GÜ 2	**Introduction to Electrical Engineering (Technomathematics)** Introduction to Electrical Engineering VL 3 Introduction to Electrical Engineering GÜ 2				
26						
27						
28			**Proseminar Technomathematics** Proseminar Mathematics SE 2			
29						
30						

Non-technical Courses for Bachelors (from catalogue) - 6LP

Technical Complementary Course I for Technomathematics (according to Subject Specific Regulations) - 6LP

Technical Complementary Course II for Technomathematics (according to Subject Specific Regulations) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.