

Course of Study Technomathematics (Study Cohort w17)

Sample course plan B Bachelor Technomathematics (TMBS)

Specialisation I. Mathematics, Specialisation II. Informatics, Specialisation III. Engineering Science, Specialisation

Legend:

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

IV. Subject Specific Focus

Semester 1	Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk
1	Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Higher Analysis	Foundations of Management	Seminar Technomathematics	Computability and Complexity Theory					
2	Procedural Programming VL 1	Objectoriented Programming, Algorithms and Data Structures VL 4	Higher Analysis VL 4	Introduction to Management VL 3	Seminar: Technomathematics SE 2	Computability and Complexity Theory VL 2					
3	Procedural Programming HÜ 1	Objectoriented Programming, Algorithms and Data Structures GÜ 1	Higher Analysis GÜ 2	Management Tutorial HÜ 2		Computability and Complexity Theory GÜ 2					
4	Procedural Programming PR 2										
5											
6											
7	Analysis for Technomathematicians (part 1)	Analysis for Technomathematicians (part 2)		Graph Theory and Optimization							
8	Analysis I for Technomathematicians VL 4	Analysis II for Technomathematicians VL 4		Graph Theory and Optimization VL 2							
9	Analysis I for Technomathematicians GÜ 2	Analysis II for Technomathematicians GÜ 2		Graph Theory and Optimization GÜ 2							
10											
11				Numerical Mathematics							
12				Numerical Mathematics VL 4							
13				Numerical Mathematics GÜ 2							
14											
15	Linear Algebra for Technomathematicians (part 1)	Linear Algebra for Technomathematicians (part 2)		Measure Theory and Stochastics							
16	Linear Algebra 1 for Technomathematicians VL 4	Linear Algebra 2 for Technomathematicians VL 4		Measure Theory and Stochastics VL 3							
17	Linear Algebra 1 for Technomathematicians GÜ 2	Linear Algebra 2 for Technomathematicians GÜ 2		Measure Theory and Stochastics GÜ 1							
18											
19											
20				Mathematical Stochastics		Signals and Systems					
21				Mathematical Stochastics VL 4		Signals and Systems VL 3					
22				Mathematical Stochastics GÜ 2		Signals and Systems GÜ 2					
23	Electrical Engineering for Technomathematicians (part 1)	Electrical Engineering for Technomathematicians (part 2)				Computernetworks and Internet Security					
24	Electrical Engineering I for Technomathematicians VL 2	Electrical Engineering II for Technomathematicians VL 2				Computer Networks and Internet Security VL 3					
25	Electrical Engineering I for Technomathematicians GÜ 1	Electrical Engineering II for Technomathematicians GÜ 1				Computer Networks and Internet Security GÜ 1					
26											
27	Mechanics for Technomathematicians (part 1)	Mechanics for Technomathematicians (part 2)				Electrical Engineering III: Circuit Theory and Transients					
28	Mechanics I for Technomathematicians VL 2	Mechanics II for Technomathematicians VL 2				Circuit Theory VL 3					
29	Mechanics I for Technomathematicians GÜ 2	Mechanics II for Technomathematicians GÜ 2				Circuit Theory GÜ 2					
30				Proseminar Technomathematics							
31				Proseminar Mathematics SE 2							

Nontechnical Complementary 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.

