

Course of Study Technomathematics (Study Cohort w18)

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	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		Compiler Construction																	
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	Compiler Construction	VL 2																
3	Procedural Programming	HÜ 1			Higher Analysis	UE 2	Management Tutorial	HÜ 2		Compiler Construction	UE 2																	
4	Procedural Programming	PR 2			Objectoriented Programming, Algorithms and Data Structures	UE 1	Numerical Mathematics	VL 4		Functional Analysis	VL 4	Introduction in Mathematical Modeling	UE 2	Operating Systems	VL 2													
5	Procedural Programming															Higher Analysis	UE 2	Functional Analysis	UE 2	Operating Systems	UE 2							
6																												
7	Analysis for Technomathematicians (part 1)				Analysis for Technomathematicians (part 2)											Numerical Mathematics	UE 2	Functional Analysis	UE 2	Introduction in Mathematical Modeling	UE 2	Operating Systems	UE 2					
8	Analysis I for Technomathematicians	VL 4	Analysis II for Technomathematicians	VL 4																								
9	Analysis I for Technomathematicians	UE 2	Analysis II for Technomathematicians	UE 2	Numerical Mathematics	VL 4																						
10					Numerical Mathematics	UE 2																						
11																												
12																												
13																												
14																												
15	Linear Algebra for Technomathematicians (part 1)		Linear Algebra for Technomathematicians (part 2)		Mathematical Stochastics	VL 4	Optimization	VL 4	Circuit Theory	VL 3	Bachelor Thesis																	
16	Linear Algebra 1 for Technomathematicians	VL 4	Linear Algebra 2 for Technomathematicians	VL 4																								
17	Linear Algebra 1 for Technomathematicians	UE 2	Linear Algebra 2 for Technomathematicians	UE 2									Mathematical Stochastics	UE 2	Optimization	UE 2	Circuit Theory	UE 2										
18																												
19																												
20																												
21																												
22																												
23	Electrical Engineering for Technomathematicians (part 1)		Electrical Engineering for Technomathematicians (part 2)		Mathematical Stochastics	UE 2	Optimization	UE 2	Mechanics III	VL 3	Bachelor Thesis																	
24	Electrical Engineering I for Technomathematicians	VL 2	Electrical Engineering II for Technomathematicians	VL 2																								
25	Electrical Engineering I for Technomathematicians	UE 1	Electrical Engineering II for Technomathematicians	UE 1									Mathematical Stochastics	UE 2			Mechanics III	UE 2										
26																	Mechanics III	HÜ 1										
27																												
28																												
29	Mechanics for Technomathematicians (part 1)		Mechanics for Technomathematicians (part 2)		Proseminar Technomathematics	SE 2	Proseminar Mathematics	SE 2	Mechanics III	HÜ 1	Bachelor Thesis																	
30	Mechanics I for Technomathematicians	VL 2	Mechanics II for Technomathematicians	VL 2																								
	Mechanics I for Technomathematicians	UE 2	Mechanics II for Technomathematicians	UE 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.