Course of Study Technomathematics (Study Cohort w17)

Sample course plan A 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**			**Numerical Algorithms in Structural Mechanics**		
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	Numerical Algorithms in Structural Mechanics	VL	2
3	Procedural Programming	HÜ	1	Objectoriented Programming, Algorithms and Data Structures	GÜ	1	Higher Analysis	GÜ	2	Management Tutorial	HÜ	2				Numerical Algorithms in Structural Mechanics	GÜ	2
4	Procedural Programming	PR	2															
5													**Mathematical Image Processing**					
6													Mathematical Image Processing	VL	3			
7	**Analysis for Technomathematicians (part 1)**			**Analysis for Technomathematicians (part 2)**						**Approximation and Stability**			Mathematical Image Processing	GÜ	1	**Boundary Element Methods**		
8	Analysis I for Technomathematicians	VL	4	Analysis II for Technomathematicians	VL	4				Approximation and Stability	VL	3				Boundary Element Methods	VL	2
9	Analysis I for Technomathematicians	GÜ	2	Analysis II for Technomathematicians	GÜ	2				Approximation and Stability	GÜ	1				Boundary Element Methods	HÜ	2
10							**Numerical Mathematics**						**Approximation**					
11							Numerical Mathematics	VL	4				Approximation	VL	4			
12							Numerical Mathematics	GÜ	2				Approximation	GÜ	2			
13										**Numerical Treatment of Ordinary Differential Equations**						**Bachelor Thesis**		
14										Numerical Treatment of Ordinary Differential Equations	VL	2						
15	**Linear Algebra for Technomathematicians (part 1)**			**Linear Algebra for Technomathematicians (part 2)**						Numerical Treatment of Ordinary Differential Equations	GÜ	2						
16	Linear Algebra 1 for Technomathematicians	VL	4	Linear Algebra 2 for Technomathematicians	VL	4												
17	Linear Algebra 1 for Technomathematicians	GÜ	2	Linear Algebra 2 for Technomathematicians	GÜ	2												
18																		
19							**Mathematical Stochastics**			**Software Engineering**								
20							Mathematical Stochastics	VL	4	Software Engineering	VL	2						
21							Mathematical Stochastics	GÜ	2	Software Engineering	GÜ	2						
22													**Distributed Systems**					
23	**Electrical Engineering for Technomathematicians (part 1)**			**Electrical Engineering for Technomathematicians (part 2)**									Distributed Systems	VL	2			
24	Electrical Engineering I for Technomathematicians	VL	2	Electrical Engineering II for Technomathematicians	VL	2							Distributed Systems	GÜ	2			
25																		
26	Electrical Engineering I for Technomathematicians	GÜ	1	Electrical Engineering II for Technomathematicians	GÜ	1												
27	**Mechanics for Technomathematicians (part 1)**			**Mechanics for Technomathematicians (part 2)**														
28	Mechancis I for Technomathematicians	VL	2	Mechanics II for Technomathematicians	VL	2												
29	Mechancis I for Technomathematicians	GÜ	2	Mechanics II for Technomathematicians	GÜ	2												
30							**Proseminar Technomathematics**											
							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.