

Course of Study Technomathematics (Study Cohort w22)

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_p Subject Specific Focus

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

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.

