

# Course of Study Technomathematics (Study Cohort w21)

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

LP	Course	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	<b>Analysis for Technomathematicians (part 1)</b>		<b>Analysis for Technomathematicians (part 2)</b>		<b>Higher Analysis</b>		<b>Foundations of Management</b>		<b>Seminar Technomathematics</b>		<b>Computability and Complexity Theory</b>	
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									<b>Combinatorial Structures and Algorithms</b>			
7									Combinatorial Structures and Algorithms VL 3			
8									Combinatorial Structures and Algorithms GÜ 1			
9											<b>Bachelor Thesis</b>	
10	<b>Linear Algebra for Technomathematicians (part 1)</b>		<b>Linear Algebra for Technomathematicians (part 2)</b>		<b>Numerical Mathematics</b>							
11	Linear Algebra 1 for Technomathematicians VL 4		Linear Algebra 2 for Technomathematicians VL 4		Numerical Mathematics VL 4							
12	Linear Algebra 1 for Technomathematicians GÜ 2		Linear Algebra 2 for Technomathematicians GÜ 2		Numerical Mathematics GÜ 2							
13												
14												
15												
16												
17												
18												
19	<b>Mechanics I (Statics)</b>		<b>Programming Paradigms</b>		<b>Mathematical Stochastics</b>		<b>Signals and Systems</b>					
20	Mechanics I VL 2		Programming Paradigms VL 2		Mathematical Stochastics VL 4		Signals and Systems VL 3					
21	Mechanics I GÜ 2		Programming Paradigms HÜ 1		Mathematical Stochastics GÜ 2		Signals and Systems GÜ 2					
22	Mechanics I HÜ 1		Programming Paradigms PR 2									
23												
24												
25	<b>Procedural Programming for Computer Engineers</b>		<b>Introduction to Electrical Engineering (Technomathematics)</b>									
26	Procedural Programming for Computer Engineers VL 1		Introduction to Electrical Engineering VL 3									
27	Procedural Programming for Computer Engineers HÜ 1		Introduction to Electrical Engineering GÜ 2									
28	Procedural Programming for Computer Engineers PR 2											
29					<b>Proseminar Technomathematics</b>							
30					Proseminar Mathematics SE 2							
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.

