

# Course of Study Technomathematics (Study Cohort w18)

Sample course plan D 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	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk								
1	<b>Procedural Programming</b>		<b>Objectoriented Programming, Algorithms and Data Structures</b>		<b>Higher Analysis</b>		<b>Foundations of Management</b>		<b>Seminar Technomathematics</b>		<b>Numerical Algorithms in Structural Mechanics</b>									
2	Procedural Programming	VL 1	Objectoriented Programming, Algorithms and Data Structures	VL 4	Higher Analysis	VL 4	Introduction to Management	VL 3	Seminar:	SE 2	Numerical Algorithms in Structural Mechanics	VL 2								
3	Procedural Programming	HÜ 1			Higher Analysis	UE 2	Management Tutorial	HÜ 2	<b>Hierarchical Algorithms</b>	Hierarchical Algorithms	VL 2	Numerical Algorithms in Structural Mechanics	UE 2							
4	Procedural Programming	PR 2			Objectoriented Programming, Algorithms and Data Structures	UE 1	Numerical Mathematics	VL 4		Solvers for Sparse Linear Systems	VL 2	Matrix Algorithms	VL 2	Boundary Element Methods	VL 2					
5	Procedural Programming															Numerical Mathematics	UE 2	Solvers for Sparse Linear Systems	UE 2	Matrix Algorithms
6									<b>Automata Theory and Formal Languages</b>	Automata Theory and Formal Languages	VL 2	<b>Complex Analysis</b>	Bachelor Thesis							
7	<b>Analysis for Technomathematicians (part 1)</b>				<b>Analysis for Technomathematicians (part 2)</b>		<b>Mathematical Stochastics</b>	VL 4	<b>Software Engineering</b>	Software Engineering	VL 2				Complex Analysis	VL 4				
8	Analysis I for Technomathematicians	VL 4	Analysis II for Technomathematicians	VL 4	Mathematical Stochastics	UE 2											Software Engineering	UE 2	Complex Analysis	UE 2
9	Analysis I for Technomathematicians	UE 2	Analysis II for Technomathematicians	UE 2	Mathematical Stochastics	UE 2						Software Engineering	UE 2	Complex Analysis			UE 2			
10					<b>Proseminar Technomathematics</b>	SE 2														
11	<b>Linear Algebra for Technomathematicians (part 1)</b>		<b>Linear Algebra for Technomathematicians (part 2)</b>										<b>Proseminar Mathematics</b>	SE 2						
12	Linear Algebra 1 for Technomathematicians	VL 4	Linear Algebra 2 for Technomathematicians	VL 4																
13	Linear Algebra 1 for Technomathematicians	UE 2	Linear Algebra 2 for Technomathematicians	UE 2	Proseminar Mathematics	SE 2														
14													Proseminar Mathematics	SE 2						
15	<b>Electrical Engineering for Technomathematicians (part 1)</b>		<b>Electrical Engineering for Technomathematicians (part 2)</b>																	
16	Electrical Engineering I for Technomathematicians	VL 2	Electrical Engineering II for Technomathematicians	VL 2	Proseminar Mathematics	SE 2														
17	Electrical Engineering I for Technomathematicians	UE 1	Electrical Engineering II for Technomathematicians	UE 1									Proseminar Mathematics	SE 2						
18																				
19	<b>Mechanics for Technomathematicians (part 1)</b>		<b>Mechanics for Technomathematicians (part 2)</b>		Proseminar Mathematics	SE 2														
20	Mechanics I for Technomathematicians	VL 2	Mechanics II for Technomathematicians	VL 2									Proseminar Mathematics	SE 2						
21	Mechanics I for Technomathematicians	UE 2	Mechanics II for Technomathematicians	UE 2																
22					Proseminar Mathematics	SE 2														
23													Proseminar Mathematics	SE 2						
24																				
25					Proseminar Mathematics	SE 2														
26													Proseminar Mathematics	SE 2						
27																				
28					Proseminar Mathematics	SE 2														
29													Proseminar Mathematics	SE 2						
30																				

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.