

# Course of Study Technomathematics (Study Cohort w18)

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	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: Technomathematics	SE 2	Numerical Algorithms in Structural Mechanics	VL 2												
3	Procedural Programming	HÜ 1			Higher Analysis	UE 2	Management Tutorial	HÜ 2	<b>Mathematical Image Processing</b>	Mathematical Image Processing	VL 3	Numerical Algorithms in Structural Mechanics	UE 2											
4	Procedural Programming	PR 2			Objectoriented Programming, Algorithms and Data Structures	UE 1	Numerical Mathematics	VL 4		UE 2	Mathematical Image Processing	UE 1	<b>Boundary Element Methods</b>	Boundary Element Methods	VL 2									
5											Approximation and Stability	VL 3				Approximation	VL 4							
6									Approximation and Stability		UE 1	Approximation				UE 2								
7	<b>Analysis for Technomathematicians (part 1)</b>				<b>Analysis for Technomathematicians (part 2)</b>		<b>Numerical Mathematics</b>	VL 4	UE 2	<b>Numerical Treatment of Ordinary Differential Equations</b>	VL 2	UE 2	<b>Distributed Systems</b>	VL 2										
8	Analysis I for Technomathematicians	VL 4	Analysis II for Technomathematicians	VL 4	Numerical Mathematics	UE 2									Numerical Treatment of Ordinary Differential Equations	UE 2	Distributed Systems	UE 2						
9	Analysis I for Technomathematicians	UE 2	Analysis II for Technomathematicians	UE 2	<b>Mathematical Stochastics</b>	VL 4									UE 2	<b>Software Engineering</b>	VL 2	UE 2	Distributed Systems	UE 2				
10			Linear Algebra 1 for Technomathematicians	VL 4																	Mathematical Stochastics	VL 4	Software Engineering	VL 2
11			Linear Algebra 1 for Technomathematicians	UE 2																	Mathematical Stochastics	UE 2	Software Engineering	UE 2
12			Linear Algebra 2 for Technomathematicians	VL 4	<b>Proseminar Technomathematics</b>	SE 2																		
13			Linear Algebra 2 for Technomathematicians	UE 2			Proseminar Mathematics	SE 2																
14																								
15	<b>Linear Algebra for Technomathematicians (part 1)</b>		<b>Linear Algebra for Technomathematicians (part 2)</b>																					
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																				
18																								
19																								
20																								
21																								
22																								
23	<b>Electrical Engineering for Technomathematicians (part 1)</b>		<b>Electrical Engineering for Technomathematicians (part 2)</b>																					
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																				
26																								
27	<b>Mechanics for Technomathematicians (part 1)</b>		<b>Mechanics for Technomathematicians (part 2)</b>																					
28	Mechanics I for Technomathematicians	VL 2	Mechanics II for Technomathematicians	VL 2																				
29	Mechanics I for Technomathematicians	UE 2	Mechanics II for Technomathematicians	UE 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

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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.