

Course of Study Technomathematics (Study Cohort w20)

Sample course plan F 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	Procedural Programming		Analysis for Technomathematicians (part 2)		Higher Analysis		Foundations of Management		Seminar Technomathematics		Compiler Construction	
2	Procedural Programming	VL 1	Analysis II for Technomathematicians	VL 4	Higher Analysis	VL 4	Introduction to Management	VL 3	Seminar: Technomathematics	SE 2	Compiler Construction	VL 2
3	Procedural Programming	HÜ 1	Analysis II for Technomathematicians	UE 2	Higher Analysis	UE 2	Management Tutorial	UE 2			Compiler Construction	UE 2
4		PR 2										
5												
6												
7	Analysis for Technomathematicians (part 1)						Functional Analysis		Introduction to Mathematical Modeling			
8	Analysis I for Technomathematicians	VL 4					Functional Analysis	VL 4	Introduction in Mathematical Modeling	VL 4		
9	Analysis I for Technomathematicians	UE 2					Functional Analysis	UE 2	Introduction in Mathematical Modeling	UE 2	Operating Systems	
10											Operating Systems	VL 2
11			Linear Algebra for Technomathematicians (part 2)		Numerical Mathematics						Operating Systems	UE 2
12			Linear Algebra 2 for Technomathematicians	VL 4	Numerical Mathematics	VL 4						
13			Linear Algebra 2 for Technomathematicians	UE 2	Numerical Mathematics	UE 2						
14												
15												
16	Linear Algebra for Technomathematicians (part 1)						Optimization		Electrical Engineering III: Circuit Theory and Transients			
17	Linear Algebra 1 for Technomathematicians	VL 4					Optimization	VL 4	Circuit Theory	VL 3		
18	Linear Algebra 1 for Technomathematicians	UE 2					Optimization	UE 2	Circuit Theory	UE 2		
19												
20			Mechanics and object-oriented Programming for Technomathematicians (part 2)		Mathematical Stochastics				Mechanics III (Dynamics)			
21			Object-oriented modelling of elastic mechanical structures in C++	PBL 6	Mathematical Stochastics	VL 4			Mechanics III	VL 3		
22					Mathematical Stochastics	UE 2			Mechanics III	UE 2		
23									Mechanics III	HÜ 1		
24												
25	Mechanics and object-oriented Programming for Technomathematicians (part 1)		Introduction to Electrical Engineering (Technomathematics)									
26	Mechanics for Technomathematicians	VL 3	Introduction to Electrical Engineering	VL 3								
27	Mechanics for Technomathematicians	UE 3	Introduction to Electrical Engineering	UE 2								
28					Proseminar Technomathematics							
29					Proseminar Mathematics	SE 2						
30												

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.

