## Course of Study Technomathematics (Study Cohort w22)

					Legend:			
Sample	e course plan D Bachelor Technomat	thematics (TMBS) Dual study prograi	n		Core Qualification Compulsory	Specialisation Compulsory	Focus Compul	sory Thesis Compulsory
Specia	Specialisation I. Mathematics, Specialisation II. Informatics, Specialisation III. Engineering Science, Specialisation				Core Qualification Elective Cor	mpulsory Specialisation Elective Compulsory	Focus Elective	Compulsory Interdisciplinary complement
•	ject Specific Focus	· ·				1		
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1	Analysis for Technomathematicians (part 1)	Analysis for Technomathematicians (part 2)	Higher Analysis	Foundations of Managemer	nt	Practical module 5 (dual study program	, Bachelor's	Numerical Algorithms in Structural Mechanics
2	Analysis I for Technomathematicians VL 4	Analysis II for Technomathematicians VL 4	Higher Analysis VL 4	Introduction to Management	VL 3	degree)		Numerical Algorithms in Structural Mechanics VL 2
	Analysis I for Technomathematicians GÜ 2	Analysis II for Technomathematicians GÜ 2	Higher Analysis GŪ 2	Management Tutorial	GÜ 2	Practical term 5	0	Numerical Algorithms in Structural Mechanics GÜ 2
3								
4								
5								
<u> </u>								
6								
7				Practical module 4 (dual st	udy program, Bachelor's	Seminar Technomathematics		Bachelor thesis (dual study program)
8				degree)		Seminar: Technomathematics	SE 2	
				Practical term 4	0			
9								
10	Linear Algebra for Technomathematicians (part 1)	Linear Algebra for Technomathematicians (part 2)	Numerical Mathematics					
11	Linear Algebra 1 for Technomathematicians VL 4	Linear Algebra 2 for Technomathematicians VL 4	Numerical Mathematics VL 4			Hierarchical Algorithms		
	Linear Algebra 1 for Technomathematicians GÜ 2	Linear Algebra 2 for Technomathematicians GÜ 2	Numerical Mathematics GÜ 2			Hierarchical Algorithms	VL 2	
12						Hierarchical Algorithms	GÜ 2	
13				Solvers for Sparse Linear S	ystems			
14	1			Solvers for Sparse Linear Syste	ems VL 2			
				Solvers for Sparse Linear Syste	ems GÜ 2			
15								
16								
17	1					Matrix Algorithms		
						Matrix Algorithms	VL 2	
18						Matrix Algorithms	GÜ 2	
19	Procedural Programming for Computer Engineers	Programming Paradigms	Mathematical Stochastics	Complex Analysis		indent Algorithms	00 2	
20	Procedural Programming for Computer Engineers VL 2	Programming Paradigms VL 2	Mathematical Stochastics VL 4	Complex Analysis	VL 4			
	Procedural Programming for Computer Engineers HU 1	Programming Paradigms HÜ 1	Mathematical Stochastics GŪ 2	Complex Analysis	GÜ 2			
21	Procedural Programming for Computer Engineers PR 2	Programming Paradigms PR 2						
22								
23						Databases		
						Databases	VL 3	
24						Databases Databases - Exercise	GÜ 2	
25	Practical module 1 (dual study program, Bachelor's	Introduction to Electrical Engineering				Databases - Exercise	00 2	
26	degree)	(Technomathematics)						
	Practical term 1 0	Introduction to Electrical Engineering VL 3						
27		Introduction to Electrical Engineering GÜ 2						
28			Proseminar Technomathematics	Automata Theory and Form	al Languages			
29			Proseminar Mathematics SE 2	Automata Theory and Formal L	anguages VL 2			
				Automata Theory and Formal L	anguages GÜ 2			
30			Practical module 3 (dual study program, Bachelor's					
31	Introduction to Mechanics (Technomathematics)	Practical module 2 (dual study program, Bachelor's	degree)					
32	Introduction to Mechanics VL 3	degree)	Practical term 3 0					
	Introduction to Mechanics GÜ 2	Practical term 2 0						
33								
34				Software Engineering				
35				Software Engineering	VL 2			
				Software Engineering	GÜ 2			
36								
37								
38	1							
	-							
39								
40				Engineering Mechanics II (E	lastostatics)			
41	1			Engineering Mechanics II	VL 2			
41				Engineering Mechanics II	GÜ 2			
	Linking theory and practice (dual study program, Bachelor's degree) (from catalogue) - 6LP Engin				HÜ 2			
	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.