Course of Study Technomathematics (Study Cohort w22)

Sample course plan A Bachelor Technomathematics (TMBS)
Specialisation I. Mathematics, Specialisation II. Informatics, Specialisation III. Engineering Science, Specialisation IV. Subject Specific Focus

LP						
1	**Analysis for Technomathematicians (part 1)**	**Analysis for Technomathematicians (part 2)**	**Higher Analysis**	**Foundations of Management**	**Seminar Technomathematics**	**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	Seminar: Technomathematics SE 2	Numerical Algorithms in Structural Mechanics VL 2
3	Analysis I for Technomathematicians GÜ 2	Analysis II for Technomathematicians GÜ 2	Higher Analysis GÜ 2	Management Tutorial GÜ 2		Numerical Algorithms in Structural Mechanics GÜ 2
4						
5					**Approximation**	
6					Approximation VL 4	
7				**Approximation and Stability**	Approximation GÜ 2	**Bachelor Thesis**
8				Approximation and Stability VL 3		
9				Approximation and Stability GÜ 1		
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			
12	Linear Algebra 1 for Technomathematicians GÜ 2	Linear Algebra 2 for Technomathematicians GÜ 2	Numerical Mathematics GÜ 2			
13				**Numerical Methods for Ordinary Differential Equations**		
14				Numerical Treatment of Ordinary Differential Equations VL 2	**Mathematical Image Processing**	
15				Numerical Treatment of Ordinary Differential Equations GÜ 2	Mathematical Image Processing VL 3	
16					Mathematical Image Processing GÜ 1	
17						
18						
19	**Procedural Programming for Computer Engineers**	**Programming Paradigms**	**Mathematical Stochastics**	**Software Engineering**		
20	Procedural Programming for Computer Engineers VL 2	Programming Paradigms VL 2	Mathematical Stochastics VL 4	Software Engineering VL 2	**Functional Programming**	
21	Procedural Programming for Computer Engineers HÜ 1	Programming Paradigms HÜ 1	Mathematical Stochastics GÜ 2	Software Engineering GÜ 2	Functional Programming VL 2	
22	Procedural Programming for Computer Engineers PR 2	Programming Paradigms PR 2			Functional Programming HÜ 2	
23					Functional Programming GÜ 2	
24						
25	**Introduction to Mechanics (Technomathematics)**	**Introduction to Electrical Engineering (Technomathematics)**		**Engineering Mechanics II (Elastostatics)**		
26	Introduction to Mechanics VL 3	Introduction to Electrical Engineering VL 3		Engineering Mechanics II VL 2		
27	Introduction to Mechanics GÜ 2	Introduction to Electrical Engineering GÜ 2		Engineering Mechanics II GÜ 2		
28			**Proseminar Technomathematics**	Engineering Mechanics II HÜ 2		
29			Proseminar Mathematics SE 2			
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| 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.