Course of Study Technomathematics (Study Cohort w19)

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

LP						
1	**Procedural Programming**	**Analysis for Technomathematicians (part 2)**	**Higher Analysis**	**Foundations of Management**	**Seminar Technomathematics**	**Numerical Algorithms in Structural Mechanics**
2	Procedural Programming VL 1	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	Procedural Programming HÜ 1	Analysis II for Technomathematicians GÜ 2	Higher Analysis GÜ 2	Management Tutorial GÜ 2		Numerical Algorithms in Structural Mechanics GÜ 2
4	Procedural Programming PR 2					
5					**Mathematical Image Processing**	
6					Mathematical Image Processing VL 3	
7	**Analysis for Technomathematicians (part 1)**				Mathematical Image Processing GÜ 1	
8	Analysis I for Technomathematicians VL 4			**Approximation and Stability**		**Boundary Element Methods**
9	Analysis I for Technomathematicians GÜ 2			Approximation and Stability VL 3		Boundary Element Methods VL 2
10		**Linear Algebra for Technomathematicians (part 2)**	**Numerical Mathematics**	Approximation and Stability GÜ 1		Boundary Element Methods HÜ 2
11		Linear Algebra 2 for Technomathematicians VL 4	Numerical Mathematics VL 4		**Approximation**	
12		Linear Algebra 2 for Technomathematicians GÜ 2	Numerical Mathematics GÜ 2		Approximation VL 4	
13				**Numerical Treatment of Ordinary Differential Equations**	Approximation GÜ 2	**Bachelor Thesis**
14						
15				Numerical Treatment of Ordinary Differential Equations VL 2		
16	**Linear Algebra for Technomathematicians (part 1)**			Numerical Treatment of Ordinary Differential Equations GÜ 2		
17	Linear Algebra 1 for Technomathematicians VL 4					
18	Linear Algebra 1 for Technomathematicians GÜ 2					
19		**Mechanics and object-oriented Programming for Technomathematicians (part 2)**	**Mathematical Stochastics**	**Software Engineering**		
20		Object-oriented modelling of elastic mecanical structures in C++ PBL 6	Mathematical Stochastics VL 4	Software Engineering VL 2	**Functional Programming**	
21			Mathematical Stochastics GÜ 2	Software Engineering GÜ 2	Functional Programming VL 2	
22					Functional Programming HÜ 2	
23					Functional Programming GÜ 2	
24						
25	**Mechanics and object-oriented Programming for Technomathematicians (part 1)**	**Introduction to Electrical Engineering (Technomathematics)**				
26						
27	Mechanics for Technomathematicians VL 3	Introduction to Electrical Engineering VL 3				
28	Mechanics for Technomathematicians GÜ 3	Introduction to Electrical Engineering GÜ 2				
29			**Proseminar Technomathematics**			
30			Proseminar Mathematics SE 2			

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.