Course of Study Technomathematics (Study Cohort w15)

Sample course plan A Bachelor Technomathematics (TMBS)
Specialisation Informatics, Specialisation Engineering Science, Specialisation Mathematics

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	**Procedural Programming**		**Objectoriented Programming, Algorithms and Data Structures**		**Higher Analysis**		**Foundations of Management**		**Seminar Technomathematics**		**Boundary Element Methods**	
2	Procedural Programming	VL 1	Objectoriented Programming, Algorithms and Data Structures	VL 4	Higher Analysis	VL 4	Introduction to Management	VL 4	Seminar: Technomathematics	SE 2	Boundary Element Methods	VL 2
3	Procedural Programming	UE 1	Objectoriented Programming, Algorithms and Data Structures	UE 1	Higher Analysis	UE 2	Project Entrepreneurship	POL 2			Boundary Element Methods	HÜ 2
4	Procedural Programming	PR 2										
5									**Distributed Systems**			
6									Distributed Systems	VL 2		
7	**Analysis for Technomathematicians (part 1)**		**Analysis for Technomathematicians (part 2)**				**Software Engineering**		Distributed Systems	UE 2	**Numerics of Partial Differential Equations**	
8	Analysis I for Technomathematicians	VL 4	Analysis II for Technomathematicians	VL 4			Software Engineering	VL 2			Numerics of Partial Differential Equations	VL 2
9	Analysis I for Technomathematicians	UE 2	Analysis II for Technomathematicians	UE 2			Software Engineering	UE 2			Numerics of Partial Differential Equations	UE 2
10					**Numerical Mathematics**							
11					Numerical Mathematics	VL 4			**Computational Fluid Dynamics I**			
12					Numerical Mathematics	UE 2			Computational Fluid Dynamics I	VL 2		
13							**Technical Thermodynamics I**		Computational Fluid Dynamics I	HÜ 2	**Bachelor Thesis**	
14							Technical Thermodynamics I	VL 2				
15	**Linear Algebra for Technomathematicians (part 1)**		**Linear Algebra for Technomathematicians (part 2)**				Technical Thermodynamics I	HÜ 1				
16	Linear Algebra 1 for Technomathematicians	VL 4	Linear Algebra 2 for Technomathematicians	VL 4			Technical Thermodynamics I	UE 1				
17									**Mathematical Image Processing**			
18	Linear Algebra 1 for Technomathematicians	UE 2	Linear Algebra 2 for Technomathematicians	UE 2					Mathematical Image Processing	VL 3		
19					**Mathematical Stochastics**		**Approximation and Stability**		Mathematical Image Processing	UE 1		
20					Mathematical Stochastics	VL 4	Approximation and Stability	VL 2				
21					Mathematical Stochastics	UE 2	Approximation and Stability	UE 1				
22							Approximation and Stability	SE 1				
23	**Electrical Engineering for Technomathematicians (part 1)**		**Electrical Engineering for Technomathematicians (part 2)**						**Approximation**			
24	Electrical Engineering I for Technomathematicians	VL 2	Electrical Engineering II for Technomathematicians	VL 2					Approximation	VL 4		
25							**Numerical Treatment of Ordinary Differential Equations**		Approximation	UE 2		
26	Electrical Engineering I for Technomathematicians	UE 1	Electrical Engineering II for Technomathematicians	UE 1			Numerical Treatment of Ordinary Partial Differential Equations	VL 2				
27	**Mechanics for Technomathematicians (part 1)**		**Mechanics for Technomathematicians (part 2)**				Numerical Treatment of Ordinary Partial Differential Equations	UE 2				
28	Mechancis I for Technomathematicians	VL 2	Mechanics II for Technomathematicians	VL 2	**Proseminar Technomathematics**							
29	Mechancis I for Technomathematicians	UE 2	Mechanics II for Technomathematicians	UE 2	Proseminar Mathematics	SE 2						
30												
31												

Nontechnical Complementary Courses for Bachelors (from catalogue) - 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.