Course of Study General Engineering Science (English program) (Study Cohort w15)

Sample course plan - Bachelor General Engineering Science (English program) (GESBS)
Specialisation Computer Science and Engineering

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	**Chemistry (GES)**		**Physics for Engineers (GES) (part 2)**		**Technical Thermodynamics II**		**Foundations of Management**		**Introduction to Control Systems**		**Stochastics**	
2	Chemistry I	VL 2	Physics-Lab for ET/ AIW/ GES	PR 1	Technical Thermodynamics II	VL 2	Introduction to Management	VL 4	Introduction to Control Systems	VL 2	Stochastics	VL 2
3	Chemistry II	VL 2	**Fundamentals of Mechanical Engineering Design**		Technical Thermodynamics II	HÜ 1	Project Entrepreneurship	POL 2	Introduction to Control Systems	UE 2	Stochastics	UE 2
4	Chemistry I	HÜ 1	Fundamentals of Mechanical Engineering Design	VL 2	Technical Thermodynamics II	UE 1						
5	Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	HÜ 2								
6												
7	**Linear Algebra**				**Computer Engineering**		**Objectoriented Programming, Algorithms and Data Structures**		**Databases**		**Operating Systems**	
8	Linear Algebra	VL 4			Computer Engineering	VL 3	Objectoriented Programming, Algorithms and Data Structures	VL 4	Databases	VL 4	Operating Systems	VL 2
9	Linear Algebra	HÜ 2	**Technical Thermodynamics I**		Computer Engineering	UE 1	Objectoriented Programming, Algorithms and Data Structures	UE 1	Databases	POL 1	Operating Systems	UE 2
10	Linear Algebra	UE 2	Technical Thermodynamics I	VL 2								
11			Technical Thermodynamics I	HÜ 1								
12			Technical Thermodynamics I	UE 1								
13					**Mathematics III**		**Logic, Automata and Formal Languages**		**Numerical Mathematics I**		**Bachelor Thesis**	
14					Analysis III	VL 2	Logic, Automata Theory and Formal Languages	VL 2	Numerical Mathematics I	VL 2		
15	**Electrical Engineering I**		**Mathematical Analysis**		Analysis III	UE 1	Logic, Automata Theory and Formal Languages	UE 2	Numerical Mathematics I	UE 2		
16	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	Analysis III	HÜ 1						
17	Electrical Engineering I	UE 2	Mathematical Analysis	HÜ 2	Differential Equations 1	VL 2						
18			Mathematical Analysis	UE 2	Differential Equations 1	UE 1						
19					Differential Equations 1	HÜ 1	**Signals and Systems**		**Computer Architecture**			
20							Signals and Systems	VL 3	Computer Architecture	VL 2		
21	**Mechanics I (GES)**				**Mechanics III (GES)**		Signals and Systems	HÜ 1	Computer Architecture	UE 2		
22	Mechanics I	VL 2			Mechanics III	HÜ 1						
23	Mechanics I	HÜ 3	**Electrical Engineering II**		Mechanics III	UE 2						
24			Electrical Engineering II	VL 3	Mechanics III	VL 3						
25			Electrical Engineering II	UE 2			**Graph Theory and Optimization**		**Seminars Computer Science and Mathematics**			
26							Graph Theory and Optimization	VL 2	Selection from a catalog			
27	**Physics for Engineers (GES) (part 1)**				**Discrete Algebraic Structures**		Graph Theory and Optimization	UE 2				
28	Physics for Engineers	VL 2			Discrete Algebraic Structures	VL 2						
29	Physics for Engineers	UE 1	**Mechanics II (GES)**		Discrete Algebraic Structures	UE 2						
30			Mechanics II	VL 2								
31			Mechanics II	HÜ 2					**Computernetworks and Internet Security**			
32									Computer Networks and Internet Security	VL 3		
33									Computer Networks and Internet Security	UE 1		
34												

35		**Programming in C**	
36		Programming in C	VL 1
		Programming in C	PR 1

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.