Course of Study General Engineering Science (English program) (Study Cohort w14)

Sample course plan C Bachelor General Engineering Science (English program) (GESBS) Specialisation Mechanical Engineering, Focus Aircraft Systems Engineering Legend:

Core qualification Compulsory

Focus Compulsory

Thesis Compulsory

Specialisation Compulsory

Speci	alisation Mechanical Engi	neeri	ng, Focus Aircraft Syste		gineering	-)	Core qualification Elect Compulsory			ialisation Elective pulsory	Focus Elective Co	ompulsory	Interdisciplinary comp	plement
LP	Semester 1	mHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4 FormHrs/w		Hrs/wk Semester 5		FormHrs/\	vk Semester 6	Semester 6	
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)		Technical Thermodynamics II		Mechanical Engineering: Design (part 2)		Introduction to Control Syste	ems	Foundations	Foundations of Management		
2 3 4 5	Chemistry II VL Chemistry I HU	- 2 Ü 1 Ü 1	Fundamentals of Mechanical Engineer	PR 1 ring VL 2	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 UE 1	Team Project Design Methodolog Mechanical Design Project II Fundamentals of Materials Scien Fundamentals of Materials Scien	TT : ice (part 2)	3	Introduction to Control Syste			to Management epreneurship	VL 4 POL 2
6			Fundamentals of Mechanical	HÜ 2			Advanced Mechanical Engineeri	ng Design						
7	Linear Algebra		Engineering Design		Computer Engineering		(part 2)		_	Measurement Technology for	or Mechanical and	Integrated F	roduct Development an	nd
8	Linear Algebra HÜ	- 4 Ü 2 E 2			Computer Engineering Computer Engineering	VL 3 UE 1	Advanced Mechanical Engineeri Design II Advanced Mechanical Engineeri Design II	-	2	Process Engineers Measurement Technology fo Mechanical and Process En Measurement Technology fo	gineers	-	Design roduct Development I nt of Lightweight Design	VL 2 VL 2
9			Technical Thermodynamics I				Signals and Systems		_	Mechanical and Process En	gineers	CAE-Team	Project	POL 2
10 11			Technical Thermodynamics I	VL 2 HÜ 1 UE 1			Signals and Systems Signals and Systems	VL : HÜ		Practical Course: Measurem Control Systems	ent and PR 2			
12														
13					Mathematics III					Simulation of Dynamic Syst Reliability	ems and	Aeronautica		
14					Analysis III Analysis III	VL 2 UE 1				Simulation of Dynamic Syst	ems VL 2		tation Systems	VL 2 VL 2
15	Electrical Engineering I		Mathematical Analysis		Analysis III	HÜ 1	Fluid Dynamics			Reliability of Dynamic Syste	ems VL 2		Is of Aircraft Systems	UE 1
16				VL 4 HÜ 2	Differential Equations 1 Differential Equations 1	VL 2 UE 1	Fluid Mechanics Fluid Mechanics	VL : HÜ		Simulation of Dynamic Syst Reliability of Dynamic Syste		Air Transpo	tation Systems	HÜ 1
17 18				UE 2	Differential Equations 1	HÜ 1								
19										Advanced Mechanical Desig	gn Project	Bachelor Th	esis	
20										Advanced Mechanical Desig	gn Project TT 4			
21	Mechanics I (GES)				Mechanics III (GES)		Mechanics IV (Kinetics II, Oscilla	ations,						
22		_ 2			Mechanics III	HÜ 1	Analytical Mechanics, Multibody		_					
23	Mechanics I HÜ	Ü3 -	Electrical Engineering II		Mechanics III Mechanics III	UE 2 VL 3	Mechanics IV Mechanics IV	VL : UE :						
24			Electrical Engineering II	VL 3		VL U	Mechanics IV	ΗÜ						
25			Electrical Engineering II	UE 2										
26														
27	Physics for Engineers (GES) (part 1)				Mechanical Engineering: Design (pa	rt 1)	Advanced Materials							
28		_ 2			Embodiment Design and 3D-CAD	VL 2	Advanced Materials Characteriza							
29	Physics for Engineers UE	= 1 -	Mechanics II (GES)		Mechanical Design Project I	TT 3	Advanced Materials Design Advanced Materials Design	VL : HÜ :						
30				VL 2	Fundamentals of Materials Science	(part 1)	, and a manufactor of the second s							
31			Mechanics II	HÜ 2	Fundamentals of Materials Science	VL 2								
32					Physical and Chemical Basics of	VL 2								
33					Materials Science									

34				Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL 2 Design I
35		Programming in C		
36	1	Programming in C	VL 1	
		Programming in C	PR 1	Advanced Mechanical Engineering HÜ 2
				Design I
	Nontechnical Complementary Courses	s for Bachelors (from catalog	gue) - 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.