

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

Sample course plan C Bachelor General Engineering Science (English program) (GESBS)  
Specialisation Mechanical Engineering, Focus Theoretical Mechanical Engineering

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective	Specialisation Elective	Focus Elective Compulsory	Interdisciplinary complement
Compulsory	Compulsory		

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	<b>Chemistry (GES)</b>		<b>Physics for Engineers (GES) (part 2)</b>		<b>Technical Thermodynamics II</b>		<b>Mechanical Engineering: Design (part 2)</b>		<b>Introduction to Control Systems</b>		<b>Foundations of Management</b>						
2	Chemistry I	VL 2	Physics-Lab for ET/ AIW/ GES	PR 1	Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4					
3	Chemistry II	VL 2	<b>Fundamentals of Mechanical Engineering Design</b>	Fundamentals of Mechanical Engineering Design	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2					
4	Chemistry I	HÜ 1			Technical Thermodynamics II	UE 1	<b>Fundamentals of Materials Science (part 2)</b>	Fundamentals of Materials Science II	VL 2	<b>Measurement Technology for Mechanical and Process Engineers</b>	Measurement Technology for Mechanical and Process Engineers	Measurement Technology for Mechanical and Process Engineers	Differential Equations 2				
5	Chemistry II	HÜ 1			Fundamentals of Mechanical Engineering Design	VL 2			Advanced Mechanical Engineering Design (part 2)					Advanced Mechanical Engineering Design II	VL 2	Complex Functions	UE 1
6	<b>Linear Algebra</b>	VL 4			Fundamentals of Mechanical Engineering Design	HÜ 2			Advanced Mechanical Engineering Design II					HÜ 2	Complex Functions	HÜ 1	
7					Linear Algebra	HÜ 2	<b>Signals and Systems</b>	Signals and Systems	VL 3					HÜ 1	Differential Equations 2	VL 2	
8					Linear Algebra	UE 2									Signals and Systems	HÜ 1	Differential Equations 2
9	<b>Electrical Engineering I</b>	VL 3			<b>Technical Thermodynamics I</b>	Technical Thermodynamics I									VL 2	HÜ 1	UE 1
10			UE 2	<b>Mathematics III</b>			Analysis III	VL 2	UE 1					HÜ 1			
11										UE 2	Analysis III	HÜ 1	HÜ 1				
12	UE 2	Differential Equations 1			VL 2	UE 1									HÜ 1	Reliability of Dynamic Systems	UE 1
13			UE 2	Differential Equations 1			UE 1	HÜ 1	Reliability of Dynamic Systems					UE 1			
14										UE 2	Differential Equations 1	HÜ 1	HÜ 1				
15	UE 2	Differential Equations 1			HÜ 1	HÜ 1									Reliability of Dynamic Systems	UE 1	
16			UE 2	Differential Equations 1			HÜ 1	HÜ 1	Reliability of Dynamic Systems					UE 1			
17										UE 2	Differential Equations 1	HÜ 1	HÜ 1				Reliability of Dynamic Systems
18	UE 2	Differential Equations 1			HÜ 1	HÜ 1									Reliability of Dynamic Systems	UE 1	
19			UE 2	Differential Equations 1			HÜ 1	HÜ 1	Reliability of Dynamic Systems					UE 1			
20										UE 2	Differential Equations 1	HÜ 1	HÜ 1				Reliability of Dynamic Systems
21	UE 2	Differential Equations 1			HÜ 1	HÜ 1									Reliability of Dynamic Systems	UE 1	
22			UE 2	Differential Equations 1			HÜ 1	HÜ 1	Reliability of Dynamic Systems					UE 1			
23										UE 2	Differential Equations 1	HÜ 1	HÜ 1				Reliability of Dynamic Systems
24	UE 2	Differential Equations 1			HÜ 1	HÜ 1									Reliability of Dynamic Systems	UE 1	
25			UE 2	Differential Equations 1			HÜ 1	HÜ 1	Reliability of Dynamic Systems					UE 1			
26										UE 2	Differential Equations 1	HÜ 1	HÜ 1				Reliability of Dynamic Systems
27	UE 2	Differential Equations 1			HÜ 1	HÜ 1									Reliability of Dynamic Systems	UE 1	
28			UE 2	Differential Equations 1			HÜ 1	HÜ 1	Reliability of Dynamic Systems					UE 1			
29										UE 2	Differential Equations 1	HÜ 1	HÜ 1				Reliability of Dynamic Systems
30	UE 2	Differential Equations 1			HÜ 1	HÜ 1									Reliability of Dynamic Systems	UE 1	
31			UE 2	Differential Equations 1			HÜ 1	HÜ 1	Reliability of Dynamic Systems					UE 1			
32										UE 2	Differential Equations 1	HÜ 1	HÜ 1				Reliability of Dynamic Systems
33	UE 2	Differential Equations 1			HÜ 1	HÜ 1									Reliability of Dynamic Systems	UE 1	

34										
35										
36										

<b>Programming in C</b>	
Programming in C	VL 1
Programming in C	PR 1

<b>Advanced Mechanical Engineering Design (part 1)</b>	
Advanced Mechanical Engineering Design I	VL 2
Advanced Mechanical Engineering Design I	HÜ 2

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.