## Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

Sample course plan C Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Bioprocess 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 Formurs	/wskemester 2 Form	s/wskemester 3 Formir	s/wskmester 4 Forthers	s/wskemester 5 Forthers	/wskemester 6 Forthers	/ଷ୍ଡkemester 7 Formirs/wl
1 2 3 4 5	Chemistry Chemistry I VL 2 Chemistry II VL 2 Chemistry II HÜ 1 Chemistry II HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering VL 3 II: Alternating Current Networks and Basic Devices Electrical Engineering UE 2 II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II  Technical Technical Technical Technical Thermodynamics II  Technical UE 1 Thermodynamics II	Fundamentals of Fluid Mechanics Fundamentals of Fluid VL 2 Mechanics Fluid Mechanics for HÜ 2 Process Engineering	Introduction to Control Systems Introduction to VL 2 Control Systems Introduction to UE 2 Control Systems	Foundations of Management Introduction to VL 3 Management Management Tutorial UE 2	Advanced Internship AIW/ GES
7 8 9 10 11	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering VL 3 I: Direct Current Networks and Electromagnetic Fields Electrical Engineering UE 2 I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	Mathematics III  Analysis III VL 2  Analysis III UE 1  Analysis III HÜ 1  Differential Equations VL 2  1  Differential Equations UE 1  1  Differential Equations HÜ 1	Thermodynamics	Heat and Mass Transfer Heat and Mass VL 2 Transfer Heat and Mass UE 1 Transfer Heat and Mass HÜ 1 Transfer	Process and Plant Engineering I  Process and Plant Engineering I	
13 14 15 16 17 18	Mathematics I Linear Algebra I VL 2 Linear Algebra I UE 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I UE 1 Analysis I HÜ 1	Technical Thermodynamics I  Technical Technical Technical Thermodynamics I  Technical Technical Technical Technical Technical Thermodynamics I	Mechanics III (Hydrostatics, Kinematics, Kinetics I) Mechanics III VL 3 Mechanics III UE 2 Mechanics III HÜ 1	Signals and Systems Signals and Systems VL 3 Signals and Systems UE 2	Thermal Separation Processes Separation Processes PR 1	Particle Technology and Solids Process Engineering Particle Technology I VL 2 Particle Technology I UE 1 Particle Technology I PR 2	
20 21 22 23	Mechanics I (Statics)  Mechanics I VL 2  Mechanics I UE 2	Mechanics II: Mechanics of Materials  Mechanics II VL 2  Mechanics II UE 2  Mechanics II HÜ 2	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Biochemistry and Microbiology Biochemistry VL 2 Biochemistry PBL1 Microbiology VL 2 Microbiology PBL1	Chemical Reaction Engineering (part 1) Chemical Reaction VL 2 Engineering Chemical Reaction HÜ 2 Engineering  Bioprocess Engineering	Chemical Reaction Engineering (part 2)  Experimental Course PR 2 Chemical Engineering  Environmental Technology  Environmental VL 2	Bachelor Thesis

	Mechanics I	HÜ 1				Advanced Bioprocess Engineering -	VL 2	Assessment Environmental UE 1 Assessment
24						Advanced		
25 26			Mathematics II Linear Algebra II VL 2		Bioprocess Engineering - Fundamentals	Bioprocess Engineering - Advanced	UE 2	
<ul><li>27</li><li>28</li><li>29</li></ul>		VL 2	Linear Algebra II UE : Linear Algebra II HÜ : Analysis II VL 2 Analysis II HÜ : Analysis II UE :	Fundamentals of Process Engineering and Material Engineering Introduction into VL 2 Process	Bioprocess VL 2 Engineering - Fundamentals Bioprocess HÜ 2 Engineering- Fundamentals Bioprocess PR 2 Engineering - Fundamental Practical			
30 31 32					Course			

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.