

Course of Study Chemical and Bioprocess Engineering (Study Cohort w26)

Sample course plan B Bachelor Chemical and Bioprocess Engineering (CBBS)

Specialisation Bio Engineering																	
1	Mathematics I (part 1) Prep Course Mathematics Mathematics I Mathematics I Mathematics I	IV 3	Engineering Mechanics I (Stereostatics) (part 2) Repetitorium Technische Mechanik I Biological and Biochemical Fundamentals (part 2) Fundamental Biological and Biochemical Practical Course Introduction to the Biological and Biochemical Practical Course	IV 6	Mathematics II (part 2) Repetitorium Mathematik II	IV 4	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics Fluid Mechanics for Process Engineering Fundamentals on Fluid Mechanics	VL 2 HÜ 2 GÜ 2	Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer	VL 2 GÜ 2 HÜ 1	Particle Technology and Solids Process Engineering Particle Technology I Particle Technology I Particle Technology I	VL 2 GÜ 1 PR 2					
2		VL 4		PR 3		VL 2 HÜ 1 GÜ 2		VL 2 HÜ 1 GÜ 2									
3		HÜ 2															
4		GÜ 2															
5																	
6																	
7																	
8																	
9	General and Inorganic Chemistry General and Inorganic Chemistry Fundamentals in Inorganic Chemistry Fundamentals in Inorganic Chemistry	VL 3			Mathematics III Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	VL 2 GÜ 1 HÜ 1 VL 2 GÜ 1 HÜ 1	Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics	VL 2 GÜ 1 HÜ 1	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2 GÜ 2 HÜ 1	Conceptual Process Design Conceptual Process Design Conceptual Process Design Conceptual Process Design	VL 2 GÜ 2 PBL 1					
10		PR 3															
11		GÜ 1															
12																	
13	Introduction to Chemical and Bioengineering Introduction to Chemical and Bioengineering	VL 2	Mathematics II (part 1) Mathematics II Mathematics II Mathematics II	VL 4 HÜ 2 GÜ 2	Chemical Reaction Engineering (part 1) Chemical Reaction Engineering Chemical Reaction Engineering	VL 2 HÜ 2	Computer Science for Engineers - Programming Concepts, Data Handling & Communication Computer Science for Engineers - Programming Concepts, Data Handling & Communication Computer Science for Engineers - Programming Concepts, Data Handling & Communication	IV 3 GÜ 2	Economic and Environmental Project Assessment Basics of Environmental Project Assessment Case studies economic and environmental project assessment Basics of economic project assement	VL 2 GÜ 1 VL 2	Bioinformatics Bioinformatics	SE 2					
14																	
15																	
16																	
17	Biological and Biochemical Fundamentals (part 1) Biological and Biochemical Fundamentals	VL 2	Organic Chemistry Organic Chemistry Organic Chemistry Organic Chemistry	VL 2 PR 2 GÜ 2	Measurement Technology for Chemical and Bioprocess Engineering Measurement Technology Physical Fundamentals of Measurement Technology Practical Course Measurement Technology	VL 2 VL 2 PR 2	Fundamentals in Molecular Biology Genetics and Molecular Biology Genetics and Molecular Biology Molecular Biology Lab Course	VL 2 PBL 1 PR 3	Thermal Separation Processes Thermal Separation Processes Thermal Separation Processes Thermal Separation Processes Separation Processes	VL 2 GÜ 2 HÜ 1 PR 1	Bachelor Thesis						
18																	
19																	
20																	
21	Engineering Mechanics I (Stereostatics) (part 1) Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 2	Fundamentals of Technical Drawing Fundamentals of Technical Drawing Fundamentals of Technical Drawing	VL 1 HÜ 1	Bioprocess Technology I Bioprocess Technology I Bioprocess Technology I Bioprocess Technology I - Fundamental Practical Course	VL 2 HÜ 2 PR 2	Advanced Practical Course in Bioengineering Advanced Practical Course in Bioengineering	PR 2									
22		GÜ 2															
23		HÜ 2															
24																	
25																	
26																	
27																	
28																	
29	Engineering Mechanics II (Elastostatics) Engineering Mechanics II Engineering Mechanics II Engineering Mechanics II	VL 2															
30		GÜ 2															
31		HÜ 2															
32																	
33																	
34																	
Non-technical 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.

