

Course of Study Chemical and Bioprocess Engineering (Study Cohort w22)

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

Specialisation: Chemical Engineering		Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk
1	Mathematics I	Biological and Biochemical Fundamentals (part 2)	Technical Thermodynamics II	Fundamentals of Fluid Mechanics	Heat and Mass Transfer	Process and Plant Engineering I
2	Mathematics I VL 4	Fundamental Biological and Biochemical PR 3	Technical Thermodynamics II VL 2	Fundamentals of Fluid Mechanics VL 2	Heat and Mass Transfer VL 2	Process and Plant Engineering I VL 2
3	Mathematics I HÜ 2	Practical Course	Technical Thermodynamics II HÜ 1	Fluid Mechanics for Process Engineering HÜ 2	Heat and Mass Transfer GÜ 1	Process and Plant Engineering I HÜ 1
4	Mathematics I GÜ 2	Introduction to the Biological and Biochemical Practical Course VL 1	Technical Thermodynamics II GÜ 1	Fundamentals on Fluid Mechanics GÜ 2	Heat and Mass Transfer HÜ 1	Process and Plant Engineering I GÜ 1
5		Technical Thermodynamics I				
6		Technical Thermodynamics I VL 2				
7		Technical Thermodynamics I HÜ 1				
8		Technical Thermodynamics I GÜ 1	Mathematics III	Phase Equilibria Thermodynamics	Thermal Separation Processes	Particle Technology and Solids Process Engineering
9	General and Inorganic Chemistry		Analysis III VL 2	Phase Equilibria Thermodynamics VL 2	Thermal Separation Processes VL 2	Particle Technology I VL 2
10	General and Inorganic Chemistry VL 3		Analysis III GÜ 1	Phase Equilibria Thermodynamics GÜ 1	Thermal Separation Processes GÜ 2	Particle Technology I GÜ 1
11	Fundamentals in Inorganic Chemistry PR 3		Analysis III HÜ 1	Phase Equilibria Thermodynamics HÜ 1	Thermal Separation Processes HÜ 1	Particle Technology I PR 2
12	Fundamentals in Inorganic Chemistry GÜ 1	Mathematics II	Differential Equations 1 VL 2		Separation Processes PR 1	
13		Mathematics II VL 4	Differential Equations 1 GÜ 1			
14		Mathematics II HÜ 2	Differential Equations 1 HÜ 1	Computer Science for Engineers - Programming Concepts, Data Handling & Communication	Introduction to Control Systems	Fundamentals of Chemical Kinetics
15	Introduction to Chemical and Bioengineering			Computer Science for Engineers - Programming VL 3	Introduction to Control Systems VL 2	Fundamentals of Chemical Kinetics VL 2
16	Introduction to Chemical and Bioengineering VL 2		Chemical Reaction Engineering (part 1)	Computer Science for Engineers - Programming Concepts, Data Handling & Communication GÜ 2	Introduction to Control Systems GÜ 2	
17			Chemical Reaction Engineering VL 2			Bachelor Thesis
18	Biological and Biochemical Fundamentals (part 1)		Chemical Reaction Engineering HÜ 2			
19	Biological and Biochemical Fundamentals VL 2	Organic Chemistry		Chemical Reaction Engineering (part 2)	Economic and environmental project assessment	
20	Engineering Mechanics I (Stereostatics)	Organic Chemistry VL 4	Measurement Technology for Chemical and Bioprocess Engineering	Experimental Course Chemical Engineering PR 2	Environmental Assessment VL 2	
21	Engineering Mechanics I VL 2	Organic Chemistry PR 3	Measurement Technology VL 2		Case studies project assessment GÜ 1	
22	Engineering Mechanics I GÜ 2		Physical Fundamentals of Measurement Technology VL 2	Renewable Energies	Economic basics VL 2	
23	Engineering Mechanics I HÜ 1		Practical Course Measurement Technology PR 2	Renewable Energies I VL 2		
24				Renewable Energies II VL 2		
25				Renewable Energies I HÜ 1		
26		Fundamentals of Technical Drawing	Bioprocess Technology I	Renewable Energies II HÜ 1	Construction and Apparatus Engineering	
27		Fundamentals of Technical Drawing VL 1	Bioprocess Technology I VL 2		Construction and Apparatus Engineering VL 2	
28		Fundamentals of Technical Drawing HÜ 1	Bioprocess Technology I HÜ 2		Construction and Apparatus Engineering GÜ 2	
29			Bioprocess Technology I - Fundamental Practical Course PR 2			
30		Engineering Mechanics II (Elastostatics)				
31		Engineering Mechanics II VL 2				
32		Engineering Mechanics II GÜ 2				
33		Engineering Mechanics II HÜ 2			Material Engineering	
					Material Engineering VL 2	

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.

