

Course of Study Chemical and Bioprocess Engineering (Study Cohort w24)

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

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

Specialisation Bio Engineering						
1	Mathematics I		Technical Thermodynamics I		Technical Thermodynamics II	Fundamentals of Fluid Mechanics
2	Mathematics I	VL 4	Technical Thermodynamics I	VL 2	Technical Thermodynamics II	Fundamentals of Fluid Mechanics
3	Mathematics I	HÜ 2	Technical Thermodynamics I	HÜ 1	Technical Thermodynamics II	Fluid Mechanics for Process Engineering
4	Mathematics I	GÜ 2	Technical Thermodynamics I	GÜ 1	Technical Thermodynamics II	Fundamentals on Fluid Mechanics
5						
6						
7						
8			Mathematics II		Mathematics III	Phase Equilibria Thermodynamics
9			Mathematics II	VL 4	Analysis III	Phase Equilibria Thermodynamics
10	General and Inorganic Chemistry		Mathematics II	HÜ 2	Analysis III	Phase Equilibria Thermodynamics
11	General and Inorganic Chemistry	VL 3	Mathematics II	GÜ 2	Differential Equations 1	Phase Equilibria Thermodynamics
12	Fundamentals in Inorganic Chemistry	PR 3			Differential Equations 1	Phase Equilibria Thermodynamics
13	Fundamentals in Inorganic Chemistry	GÜ 1			Differential Equations 1	Phase Equilibria Thermodynamics
14						
15	Practical module 1 (dual study program, Bachelor's degree)		Organic Chemistry		Chemical Reaction Engineering (part 1)	Computer Science for Engineers - Programming Concepts, Data Handling & Communication
16	Practical term 1	0	Organic Chemistry	VL 2	Chemical Reaction Engineering	Computer Science for Engineers - Programming Concepts, Data Handling & Communication
17			Organic Chemistry	PR 2	Chemical Reaction Engineering	Computer Science for Engineers - Programming Concepts, Data Handling & Communication
18			Organic Chemistry	GÜ 2		
19						
20						
21	Introduction to Chemical and Bioengineering		Fundamentals of Technical Drawing		Measurement Technology for Chemical and Bioprocess Engineering	Practical module 4 (dual study program, Bachelor's degree)
22	Introduction to Chemical and Bioengineering	VL 2	Fundamentals of Technical Drawing	VL 1	Measurement Technology	Practical term 4
23			Fundamentals of Technical Drawing	HÜ 1	Physical Fundamentals of Measurement Technology	
24						
25	Biological and Biochemical Fundamentals (part 1)		Practical module 2 (dual study program, Bachelor's degree)		Practical module 3 (dual study program, Bachelor's degree)	Chemical Reaction Engineering (part 2)
26	Biological and Biochemical Fundamentals	VL 2	Practical term 2	0	Practical term 3	Experimental Course Chemical Engineering
27	Engineering Mechanics I (Stereostatics)					Fundamentals in Molecular Biology
28	Engineering Mechanics I	VL 2				Genetics and Molecular Biology
29	Engineering Mechanics I	GÜ 2				Genetics and Molecular Biology
30	Engineering Mechanics I	HÜ 2				Molecular Biology Lab Course
31			Engineering Mechanics II (Elastostatics)		Bioprocess Technology I	
32			Engineering Mechanics II	VL 2	Bioprocess Technology I	
33			Engineering Mechanics II	GÜ 2	Bioprocess Technology I	
34			Engineering Mechanics II	HÜ 2	Bioprocess Technology I - Fundamental Practical Course	
35						
36			Biological and Biochemical Fundamentals (part 2)			Bioprocess Technology II
37			Fundamental Biological and Biochemical Practical Course	PR 3		Bioprocess Technology II
38			Introduction to the Biological and Biochemical Practical Course	VL 1		Bioprocess Technology II
39						
Linking theory and practice (dual study program, Bachelor's degree) - 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.

