

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

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

Specialisation Chemical Engineering															
1	Mathematics I (part 1) Prep Course Mathematics Mathematics I Mathematics I Mathematics I	IV 3 VL 4 HÜ 2 GÜ 2	Engineering Mechanics I (Stereostatics) (part 2) Repetitorium Technische Mechanik I	IV 6	Mathematics II (part 2) Repetitorium Mathematik II	IV 4	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 GÜ 2	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	
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7	Mathematics II (part 1) Mathematics II Mathematics II Mathematics II	VL 4 HÜ 2 GÜ 2	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 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					
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13	General and Inorganic Chemistry General and Inorganic Chemistry Fundamentals in Inorganic Chemistry Fundamentals in Inorganic Chemistry	VL 3 PR 3 GÜ 1	Organic Chemistry Organic Chemistry Organic Chemistry Organic Chemistry	VL 2 PR 2 GÜ 2	Chemical Reaction Engineering (part 1) Chemical Reaction Engineering Chemical Reaction Engineering	VL 2 HÜ 2	Measurement Technology for Chemical and Bioprocess Engineering Measurement Technology Physical Fundamentals of Measurement Technology Technology Practical Course Measurement Technology	VL 2 VL 2 PR 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 assesment	VL 2 GÜ 1 VL 2	Fundamentals of Chemical Kinetics Fundamentals of Chemical Kinetics Fundamentals of Chemical Kinetics	VL 1 HÜ 1	
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19	Practical Module 1 (Dual Study Program, Bachelor's Degree) Practical term 1	0	Practical Module 2 (Dual Study Program, Bachelor's Degree) Practical term 2	0	Practical Module 3 (Dual Study Program, Bachelor's Degree) Practical term 3	0	Chemical Reaction Engineering (part 2) Experimental Course Chemical Engineering	PR 2	Thermal Separation Processes Thermal Separation Processes Thermal Separation Processes Thermal Separation Processes Separation Processes	VL 2 GÜ 2 HÜ 1 PR 1	Construction and Apparatus Engineering Construction and Apparatus Engineering Construction and Apparatus Engineering	VL 2 GÜ 2			
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25	Biological and Biochemical Fundamentals (part 1) Biological and Biochemical Fundamentals	VL 2	Engineering Mechanics I (Stereostatics) (part 1) Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 2 GÜ 2 HÜ 2	Engineering Mechanics II (Elastostatics) Engineering Mechanics II Engineering Mechanics II Engineering Mechanics II	VL 2 GÜ 2 HÜ 2	Bioprocess Technology I Bioprocess Technology I Bioprocess Technology I Bioprocess Technology I - Fundamental Practical Course	VL 2 HÜ 2 PR 2	Energy Renewable Energies I Renewable Energies II Renewable Energies I Fuels II	VL 2 VL 2 HÜ 1 VL 1	Material Engineering Material Engineering	VL 2			
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31	Biological and Biochemical Fundamentals (part 2) Fundamental Biological and Biochemical Practical Course Introduction to the Biological and Biochemical Practical Course	PR 3 VL 1	Practical Module 4 (Dual Study Program, Bachelor's degree) (from catalogue) - 6LP												
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

