

Course of Study Chemical and Bioprocess Engineering (Study Cohort w25)

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

Specialisation Chemical Engineering															
1	Mathematics I Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2			Biological and Biochemical Fundamentals (part 2) Fundamental Biological and Biochemical PR 3 Practical Course Introduction to the Biological and Biochemical VL 1 Practical Course		Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 2		Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics VL 2 Fluid Mechanics for Process Engineering HÜ 2 Fundamentals on Fluid Mechanics GÜ 2		Heat and Mass Transfer Heat and Mass Transfer VL 2 Heat and Mass Transfer GÜ 2 Heat and Mass Transfer HÜ 1		Particle Technology and Solids Process Engineering Particle Technology I VL 2 Particle Technology I GÜ 1 Particle Technology I PR 2			
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9	General and Inorganic Chemistry General and Inorganic Chemistry VL 3 Fundamentals in Inorganic Chemistry PR 3 Fundamentals in Inorganic Chemistry GÜ 1			Mathematics II Mathematics II VL 4 Mathematics II HÜ 2 Mathematics II GÜ 2		Mathematics III Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1		Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics VL 2 Phase Equilibria Thermodynamics GÜ 1 Phase Equilibria Thermodynamics HÜ 1		Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2		Conceptual Process Design Conceptual Process Design VL 2 Conceptual Process Design HÜ 2 Conceptual Process Design GÜ 1			
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15	Introduction to Chemical and Bioengineering Introduction to Chemical and Bioengineering VL 2			Chemical Reaction Engineering (part 1) Chemical Reaction Engineering VL 2 Chemical Reaction Engineering HÜ 2		Computer Science for Engineers - Programming Concepts, Data Handling & Communication Computer Science for Engineers - Programming IV 3 Concepts, Data Handling & Communication GÜ 2		Economic and environmental project assessment Basics of Environmental Project Assessment VL 2 Case studies economic and environmental project assessment GÜ 1 Basics of economic project assesment VL 2		Fundamentals of Chemical Kinetics Fundamentals of Chemical Kinetics VL 1 Fundamentals of Chemical Kinetics HÜ 1					
16															
17															
18	Biological and Biochemical Fundamentals (part 1) Biological and Biochemical Fundamentals VL 2			Organic Chemistry Organic Chemistry VL 2 Organic Chemistry PR 2 Organic Chemistry GÜ 2		Measurement Technology for Chemical and Bioprocess Engineering Measurement Technology VL 2 Physical Fundamentals of Measurement Technology VL 2 Practical Course Measurement Technology PR 2		Chemical Reaction Engineering (part 2) Experimental Course Chemical Engineering PR 2		Thermal Separation Processes Thermal Separation Processes VL 2 Thermal Separation Processes GÜ 2 Thermal Separation Processes HÜ 1 Separation Processes PR 1		Bachelor Thesis			
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25	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 2			Fundamentals of Technical Drawing Fundamentals of Technical Drawing VL 1 Fundamentals of Technical Drawing HÜ 1		Bioprocess Technology I Bioprocess Technology I VL 2 Bioprocess Technology I HÜ 2 Bioprocess Technology I - Fundamental Practical Course PR 2		Renewable Energies Renewable Energies I VL 2 Renewable Energies II VL 2 Renewable Energies I HÜ 1 Fuels II VL 1		Construction and Apparatus Engineering Construction and Apparatus Engineering VL 2 Construction and Apparatus Engineering GÜ 2					
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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.

