

# Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

Sample course plan M Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation Computer Science								
1	<b>Chemistry</b> Chemistry I+II VL 4 Chemistry I+II HÜ 2	<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b> Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	<b>Technical Thermodynamics II</b> Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	<b>Signals and Systems</b> Signals and Systems VL 3 Signals and Systems GÜ 2	<b>Introduction to Control Systems</b> Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	<b>Foundations of Management</b> Introduction to Management VL 3 Management Tutorial GÜ 2	<b>Advanced Internship AIW/ ES</b> Advanced Internship AIW/ ES: SE 1 Preparation Advanced Intership AIW/ ES: Internship-accompanying Seminar SE 1	
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7	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b> Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3 Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	<b>Fundamentals of Mechanical Engineering Design</b> Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2	<b>Mathematics III</b> 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	<b>Automata Theory and Formal Languages</b> Automata Theory and Formal Languages VL 2 Automata Theory and Formal Languages GÜ 2	<b>Numerical Mathematics I</b> Numerical Mathematics I VL 2 Numerical Mathematics I GÜ 2	<b>Software Engineering</b> Software Engineering VL 2 Software Engineering GÜ 2		
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13	<b>Mathematics I</b> Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1	<b>Technical Thermodynamics I</b> Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	<b>Engineering Mechanics III (Dynamics)</b> Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1	<b>Stochastics</b> Stochastics VL 2 Stochastics GÜ 2	<b>Functional Programming</b> Functional Programming VL 2 Functional Programming HÜ 2 Functional Programming GÜ 2	<b>Lab Cyber-Physical Systems</b> Lab Cyber-Physical Systems PBL 4		
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19		<b>Mechanics I (Statics)</b> Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	<b>Mechanics II: Mechanics of Materials</b> Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2	<b>Discrete Algebraic Structures</b> Discrete Algebraic Structures VL 2 Discrete Algebraic Structures GÜ 2	<b>Embedded Systems</b> Embedded Systems VL 3 Embedded Systems GÜ 1 Embedded Systems PBL 1	<b>Computernetworks and Internet Security</b> Computer Networks and Internet Security VL 3 Computer Networks and Internet Security GÜ 1		<b>Bachelor Thesis</b>
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25	<b>Computer Science for Engineers - Introduction and Overview</b> Computer Science for Engineers - Introduction and Overview VL 3 Computer Science for Engineers - Introduction and Overview GÜ 2	<b>Mathematics II</b> Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	<b>Computer Engineering</b> Computer Engineering VL 3 Computer Engineering GÜ 1	<b>Graph Theory and Optimization</b> Graph Theory and Optimization VL 2 Graph Theory and Optimization GÜ 2	<b>Seminars Computer Science</b> Introductory Seminar Computer Science SE 2 II Introductory Seminar Computer Science I SE 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.

