

# Course of Study Computer Science in Engineering (Study Cohort w22)

Sample course plan E Bachelor Computer Science in Engineering (IIWBS)  
Specialisation I. Computer Science, Specialisation II. Mathematics & Engineering Science, Specialisation III.

Subject Specific Focus						
1	<b>Discrete Algebraic Structures</b> Discrete Algebraic Structures VL 2 Discrete Algebraic Structures GÜ 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>Numerical Mathematics I</b> Numerical Mathematics I VL 2 Numerical Mathematics I GÜ 2	<b>Signals and Systems</b> Signals and Systems VL 3 Signals and Systems GÜ 2	<b>Introduction to Communications and Random Processes</b> Introduction to Communications and Random Processes VL 3 Introduction to Communications and Random Processes HÜ 1 Introduction to Communications and Random Processes GÜ 1	<b>Fundamentals of Operating Systems</b> Fundamentals of Operating Systems VL 2 Fundamentals of Operating Systems GÜ 2
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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>Automata Theory and Formal Languages</b> Automata Theory and Formal Languages VL 2 Automata Theory and Formal Languages GÜ 2	<b>Computer Engineering</b> Computer Engineering VL 3 Computer Engineering GÜ 1	<b>Stochastics</b> Stochastics VL 2 Stochastics GÜ 2	<b>Introduction to Control Systems</b> Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	<b>Bachelor Thesis</b>
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13	<b>Mathematics I</b> Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2	<b>Foundations of Management</b> Introduction to Management VL 3 Management Tutorial GÜ 2	<b>Computernetworks and Internet Security</b> Computer Networks and Internet Security VL 3 Computer Networks and Internet Security GÜ 1	<b>Embedded Systems</b> Embedded Systems VL 3 Embedded Systems GÜ 1 Embedded Systems PBL 1	<b>Practical Course IIW</b> Practical Course IIW PBL 8	
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19		<b>Procedural Programming for Computer Engineers</b> Procedural Programming for Computer Engineers VL 2 Procedural Programming for Computer Engineers HÜ 1 Procedural Programming for Computer Engineers PR 2	<b>Mathematics II</b> Mathematics II VL 4 Mathematics II HÜ 2 Mathematics II GÜ 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>Seminars Computer Science</b> Introductory Seminar Computer Science II SE 2 Introductory Seminar Computer Science I SE 2	<b>Computer Architecture</b> Computer Architecture VL 2 Computer Architecture PBL 2 Computer Architecture GÜ 1
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25		<b>Programming Paradigms</b> Programming Paradigms VL 2 Programming Paradigms HÜ 1 Programming Paradigms PR 2	<b>Algorithms and Data Structures</b> Algorithms and Data Structures VL 4 Algorithms and Data Structures GÜ 1		<b>Electronic Devices</b> Electronic Devices VL 3 Electronic Devices PBL 2	
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Non-technical Courses for Bachelors (from catalogue) - 6LP						
Technical Complementary Course for Computational Science and Engineering Bachelor - 12LP						

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

