

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

Sample course plan I Bachelor Computer Science in Engineering (IIWBS) Dual study program  
Specialisation I. Computer Science, Specialisation II. Mathematics & Engineering Science, Specialisation III.  
Subject Specific Focus

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1	<b>Discrete Algebraic Structures</b> <div>Discrete Algebraic Structures VL 2</div> <div>Discrete Algebraic Structures GÜ 2</div>	<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b> <div>Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3</div> <div>Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2</div>	<b>Numerical Mathematics I</b> <div>Numerical Mathematics I VL 2</div> <div>Numerical Mathematics I GÜ 2</div>	<b>Signals and Systems</b> <div>Signals and Systems VL 3</div> <div>Signals and Systems GÜ 2</div>	<b>Introduction to Communications and Random Processes</b> <div>Introduction to Communications and Random Processes VL 3</div> <div>Introduction to Communications and Random Processes HÜ 1</div> <div>Introduction to Communications and Random Processes GÜ 1</div>	<b>Software Development</b> <div>Software Development VL 1</div> <div>Software Development PBL 2</div>			
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7	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b> <div>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3</div> <div>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2</div>	<b>Automata Theory and Formal Languages</b> <div>Automata Theory and Formal Languages VL 2</div> <div>Automata Theory and Formal Languages GÜ 2</div>	<b>Computer Engineering</b> <div>Computer Engineering VL 3</div> <div>Computer Engineering GÜ 1</div>	<b>Stochastics</b> <div>Stochastics VL 2</div> <div>Stochastics GÜ 2</div>	<b>Introduction to Control Systems</b> <div>Introduction to Control Systems VL 2</div> <div>Introduction to Control Systems GÜ 2</div>	<b>Fundamentals of Operating Systems</b> <div>Fundamentals of Operating Systems VL 2</div> <div>Fundamentals of Operating Systems GÜ 2</div>			
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13	<b>Mathematics I</b> <div>Mathematics I VL 4</div> <div>Mathematics I HÜ 2</div> <div>Mathematics I GÜ 2</div>	<b>Foundations of Management</b> <div>Introduction to Management VL 3</div> <div>Management Tutorial GÜ 2</div>	<b>Computernetworks and Internet Security</b> <div>Computer Networks and Internet Security VL 3</div> <div>Computer Networks and Internet Security GÜ 1</div>	<b>Embedded Systems</b> <div>Embedded Systems VL 3</div> <div>Embedded Systems GÜ 1</div> <div>Embedded Systems PBL 1</div>	<b>Practical Course IIW</b> <div>Practical Course IIW PBL 8</div>	<b>Bachelor thesis (dual study program)</b>			
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25	<b>Procedural Programming for Computer Engineers</b> <div>Procedural Programming for Computer Engineers VL 2</div> <div>Procedural Programming for Computer Engineers HÜ 1</div> <div>Procedural Programming for Computer Engineers PR 2</div>	<b>Mathematics II</b> <div>Mathematics II VL 4</div> <div>Mathematics II HÜ 2</div> <div>Mathematics II GÜ 2</div>	<b>Mathematics III</b> <div>Analysis III VL 2</div> <div>Analysis III GÜ 1</div> <div>Analysis III HÜ 1</div> <div>Differential Equations 1 VL 2</div> <div>Differential Equations 1 GÜ 1</div> <div>Differential Equations 1 HÜ 1</div>	<b>Seminars Computer Science</b> <div>Introductory Seminar Computer Science II SE 2</div> <div>Introductory Seminar Computer Science I SE 2</div>	<b>Practical module 5 (dual study program, Bachelor's degree)</b> <div>Practical term 5 0</div>				
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Linking theory and practice (dual study program, Bachelor's degree) (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.

