

Course of Study Computer Science (Study Cohort w22)

Sample course plan R Bachelor Computer Science (CSBS)
Specialisation I. Computer and Software Engineering, Specialisation II. Mathematics and Engineering Science,
Specialisation III. Subject Specific Focus

Specialisation III. Subject Specific Focus																
1	Discrete Algebraic Structures Discrete Algebraic Structures VL 2 Discrete Algebraic Structures GÜ 2	Automata Theory and Formal Languages Automata Theory and Formal Languages VL 2 Automata Theory and Formal Languages GÜ 2	Databases Databases VL 3 Databases - Exercise GÜ 2	Computability and Complexity Theory Computability and Complexity Theory VL 2 Computability and Complexity Theory GÜ 2	Software Industrial Internship	Embedded Systems Embedded Systems VL 3 Embedded Systems GÜ 1 Embedded Systems PBL 1										
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7	Functional Programming Functional Programming VL 2 Functional Programming HÜ 2 Functional Programming GÜ 2	Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2	Computer Engineering Computer Engineering VL 3 Computer Engineering GÜ 1	Stochastics Stochastics VL 2 Stochastics GÜ 2	Seminars Computer Science Introductory Seminar Computer Science II SE 2 Introductory Seminar Computer Science I SE 2	Introduction into Medical Technology and Systems Introduction into Medical Technology and Systems VL 2 Introduction into Medical Technology and Systems PS 2 Introduction into Medical Technology and Systems HÜ 1										
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13	Procedural Programming for Computer Engineers Procedural Programming for Computer Engineers VL 2 Procedural Programming for Computer Engineers HÜ 1 Procedural Programming for Computer Engineers PR 2	Programming Paradigms Programming Paradigms VL 2 Programming Paradigms HÜ 1 Programming Paradigms PR 2	Computernetworks and Internet Security Computer Networks and Internet Security VL 3 Computer Networks and Internet Security GÜ 1	Software Engineering Software Engineering VL 2 Software Engineering GÜ 2	Computer Architecture Computer Architecture VL 2 Computer Architecture PBL 2 Computer Architecture GÜ 1	Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2										
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19	Mathematics I (EN) Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2	Mathematics II (EN) Mathematics II VL 4 Mathematics II HÜ 2 Mathematics II GÜ 2	Algorithms and Data Structures Algorithms and Data Structures VL 4 Algorithms and Data Structures GÜ 1	Graph Theory and Optimization Graph Theory and Optimization VL 2 Graph Theory and Optimization GÜ 2	Introduction to Quantum Computing Introduction to Quantum Computing VL 2 Introduction to Quantum Computing HÜ 2	Bachelor Thesis										
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24																
25			Mathematics III (EN) Analysis III VL 2 Analysis III HÜ 1 Analysis III GÜ 1 Differential Equations 1 VL 2 Differential Equations 1 HÜ 1 Differential Equations 1 GÜ 1													
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Non-technical Courses for Bachelors (from catalogue) - 6LP																
Technical Complementary Course I for CSBS - 6LP																
Technical Complementary Course II for CSBS - 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.

