Course of Study Computer Science (Study Cohort w20)

| Sample course plan R Bachelor Computer Science (CSBS) | | | | | | | | Core Qualification Compulso | ry Specialisation Compulsory | Focus Compute | sory | Thesis Compulsory | | |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------|--|
| Specialisation I. Computer and Software Engineering, Specialisation II. Mathematics and Engineering Science, | | | | | | | | Core Qualification Elective Compulsory Specialisation Elective Compulsory | | Focus Elective Compulsory | | Interdisciplinary compl | lement | |
| Specia | lisation III. Subject Specific Foo | cus | | | | | | | | | | | | |
| Specia 1 2 3 4 5 6 7 8 9 10 11 | lisation III. Subject Specific For Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures Procedural Programming Procedural Programming Procedural Programming Procedural Programming | VL 2 GÛ 2 VL 1 HŨ 1 PR 2 | Automata Theory and Formal Languages Automata Theory and Formal Languages Automata Theory and Formal Languages Automata Theory and Formal Languages Mathematical Analysis Mathematical Analysis Mathematical Analysis Mathematical Analysis | VL 2 GÜ 2 VL 4 HÜ 2 GÜ 2 | Computer Engineering Vi Computer Engineering Gi Computer Engineering Gi Computer Engineering Gi Computer Networks and Internet Security Computer Networks and Internet Security Vi Computer Networks and Internet Security Gi | L 3) 1 L 3) 1 | Computability and Complexity Computability and Complexity Computability and Complexity Stochastics Stochastics Stochastics | ity Theory VL 2 Theory GÜ 2 Theory GÜ 2 VL 2 GÜ 2 | Software Industrial Internship Software Industrial Internship Seminars Computer Science Introductory Seminar Computer Science II Introductory Seminar Computer Science I | SE 2 SE 2 | Signals and Systems Signals and Systems Signals and Systems Embedded Systems Embedded Systems Embedded Systems Embedded Systems | | VL 3 GÜ 2 VL 3 GÜ 1 PBL 1 | |
| 12 13 14 15 16 17 18 | Functional Programming Functional Programming Functional Programming Functional Programming | VL 2 HŨ 2 GŨ 2 | Foundations of Management Introduction to Management Management Tutorial | VL 3 GÜ 2 | Algorithms and Data Structures Algorithms and Data Structures VI Algorithms and Data Structures Gi | L 4) 1 | Software Engineering Software Engineering Software Engineering | VL 2 GÜ 2 | Computer Architecture Computer Architecture Computer Architecture Computer Architecture | VL 2 PBL 2 GÜ 1 | Introduction into Medica Systems Introduction into Medica Systems Introduction into Medica Systems | lical Technology and I Technology and II Technology and II Technology and | d Systems VL 2 PS 2 HÜ 1 | |
| 19 20 21 22 23 24 25 | Linear Algebra Linear Algebra Linear Algebra Linear Algebra C | VL 4 HÜ 2 GÜ 2 | Programming Paradigms Programming Paradigms Programming Paradigms Programming Paradigms | VL 2 HÜ 1 PR 2 | Mathematics III (EN) Analysis III VI Analysis III Hi Gi Differential Equations 1 Differential Equations 1 Hi Differential Equations 1 Gi | L 2 D 1 D 1 L 2 D 1 D 1 | Graph Theory and Optimization Graph Theory and Optimization Graph Theory and Optimization | tion VL 2 n GÜ 2 | Quantum Mechanics for Engineers Quantum Mechanics for Engineers Quantum Mechanics for Engineers | VL 2 GÜ 2 | Bachelor Thesis | | | |
| 26 27 28 29 30 | | | | | | | Operating Systems Operating Systems | VL 2 GÜ 2 | | | | | | |
| | Non-technical Courses for Bachelors | Non-technical Courses for Bachelors (from catalogue) - 6LP | | | | | | | | | | | | |
| | Technical Complementary Course II f | for CSBS | - 6LP | | | | | | | | | | | |
| | Technical Complementary Course I fo | or 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.