Course of Study Computational Science and Engineering (Study Cohort w19)

Sample course plan E. Bachelor Computational Science and Engineering (IIWBS) Specialisation I. Computer Science, Specialisation II. Mathematics & Engineering Science, Specialisation III. Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Subject Specific Focus **Discrete Algebraic Structures** Electrical Engineering II: Alternating Current Networks Numerical Mathematics I Signals and Systems Introduction to Communications and Random Operating Systems and Basic Devices Discrete Algebraic Structures Numerical Mathematics I Signals and Systems Processes Operating Systems 2 GÜ 2 Electrical Engineering II: Alternating Current VL 3 GÜ 2 GÜ 2 Introduction to Communications and Random GÜ 2 Discrete Algebraic Structures Numerical Mathematics I Signals and Systems Operating Systems 3 Networks and Basic Devices Processes Electrical Engineering II: Alternating Current GÜ 2 Introduction to Communications and Random 4 Networks and Basic Devices Processes 5 Introduction to Communications and Random GÜ 1 Procedural Programming **Automata Theory and Formal Languages** Computer Engineering Stochastics Introduction to Control Systems Bachelor Thesis VI 2 Procedural Programming VI 1 Automata Theory and Formal Languages Computer Engineering VI 3 Stochastics Introduction to Control Systems VI 2 HŪ 1 Automata Theory and Formal Languages Computer Engineering GÜ 1 Stochastics GÜ 2 Introduction to Control Systems GÜ 2 Procedural Programming 10 11 12 13 Electrical Engineering I: Direct Current Networks and Foundations of Management Computernetworks and Internet Security Embedded Systems Practical Course IIW Introduction to Management Computer Networks and Internet Security Embedded Systems VI 3 Practical Course IIW PRI 8 14 Electrical Engineering I: Direct Current Networks VL 3 Management Tutorial HÜ 2 Computer Networks and Internet Security GÜ 1 Embedded Systems GÜ 1 and Electromagnetic Fields Electrical Engineering I: Direct Current Networks GÜ 2 16 and Electromagnetic Fields 17 18 19 Mathematics I Mathematics II Mathematics III Seminars Computer Science and Mathematics Computer Architecture Linear Algebra L Linear Algebra II Analysis III VI 2 Seminar Computer Science und Mathematics 1 SE 2 Computer Architecture VI 2 Linear Algebra I GÜ 1 Linear Algebra II GÜ 1 Analysis III GÜ 1 Seminar Computer Science und Mathematics 2 SE 2 PBL 2 21 Linear Algebra I HŪ 1 Linear Algebra II Analysis III HÜ 1 Seminar Computer Science und Mathematics 3 SE 2 GÜ 1 22 GÜ 1 Analysis II HÜ 1 Differential Equations 1 GÜ 1 23 HÜ 1 HÜ 1 Analysis I Analysis II Differential Equations 1 24 25 Flectronic Devices Electronic Devices VI 3 26 Electronic Devices PBI 2 27 Objectoriented Programming Algorithms and Data Structures Objectoriented Programming Algorithms and Data Structures 28 Algorithms and Data Structures GÜ 1 Objectoriented Programming 29 Objectoriented Programming 31 32

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.