Course of Study Computational Science and Engineering (Study Cohort w16)

Analysis II

Analysis II

VL 2

HÜ 1

Differential Equations 1

Differential Equations 1

VL 2

UE 1

Differential Equations 2

Differential Equations 2

VL 2

UE 1

6

30

Legend: Sample course plan R Bachelor Computational Science and Engineering (IIWBS) Core gualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory Specialisation Engineering Sciences Core qualification Elective Specialisation Elective Focus Elective Compulsory Interdisciplinary complement Compulsory . Compulsory I P FornHrs/w8kemester 2 FornHrs/wSemester 4 FornHrs/wSeemester 6 Semester 1 FormHrs/w&semester 3 FornHrs/w8kemester 5 11 Electrical Engineering II: **Discrete Algebraic Structures Engineering Mechanics I** Engineering Mechanics II Seminars Computer Science and Stochastics 2 Alternating Current Networks and Mathematics Discrete Algebraic Structures VL 2 Engineering Mechanics I VL 3 VL 3 **Engineering Mechanics II** Stochastics 3 **Basic Devices** Seminar Computational SE 2 Discrete Algebraic Structures UE 2 Engineering Mechanics I UE 2 Engineering Mechanics II UE 2 Stochastics 1 Electrical Engineering II: VL 3 **Engineering Science** 5 Alternating Current Networks Seminar Computational SE 2 and Basic Devices Mathematics/Computer Electrical Engineering II: UE 2 Science Alternating Current Networks SE 2 Seminar Engineering and Basic Devices Mathematics/Computer Science 7 Procedural Programming **Objectoriented Programming**, Numerical Mathematics I Signals and Systems Introduction to Control Systems Introduction into Medical 8 Algorithms and Data Structures **Technology and Systems** VL 2 Procedural Programming VL 1 Numerical Mathematics I VL 2 Signals and Systems VL 3 Introduction to Control 9 Objectoriented Programming, VL 4 Introduction into Medical Systems HÜ 1 <u>НÜ 1</u> UE 2 Signals and Systems Procedural Programming Numerical Mathematics I 10 Algorithms and Data Technology and Systems Introduction to Control UE 2 PR 2 Procedural Programming 11 Structures Systems Introduction into Medical 12 Objectoriented Programming, UE 1 Technology and Systems Algorithms and Data Introduction into Medical Structures Technology and Systems 13 Electrical Engineering I: Direct Logic, Automata and Formal **Computer Engineering** Embedded Systems Introduction to Communications Algebra and Control 14 **Current Networks and** and Random Processes Languages VL 3 Computer Engineering VL 3 Embedded Systems Algebra and Control 15 **Electromagnetic Fields** Logic, Automata Theory and VL 2 Introduction to VL 3 UE 1 Algebra and Control Computer Engineering UE 1 Embedded Systems 16 Formal Languages Electrical Engineering I: VL 3 Communications and 17 Direct Current Networks and **Bandom Processes** Logic, Automata Theory and UE 2 **Electromagnetic Fields** 18 Formal Languages Introduction to ΗÜ 1 UE 2 Electrical Engineering I: Communications and Random Processes Direct Current Networks and **Electromagnetic Fields** 19 Mathematics I Foundations of Management **Computernetworks and Internet** Graph Theory and Optimization Measurements: Methods and Data Bachelor Thesis 20 Security Processing VL 2 Linear Algebra I VL 2 Introduction to Management VL 3 Graph Theory and 21 Computer Networks and VL 3 Optimization Measurements: Methods and VL 2 PBL 2 Linear Algebra I UE 1 Project Entrepreneurship 22 Data Processing Internet Security Graph Theory and UF 2 HÜ 1 Linear Algebra I 23 Computer Networks and UE 1 Optimization Measurements: Methods and UE 1 Analysis I VL 2 24 Internet Security Data Processing UE Analysis I EE Experimental Lab PR 2 ΗÜ 1 Analysis I 25 Mathematics II Mathematics III Mathematics IV 26 Linear Algebra II VL 2 Analysis III **Complex Functions** VL 2 VL 2 27 UE 1 Linear Algebra II UE 1 Analysis III UE 1 **Complex Functions** 28 HÜ 1 Linear Algebra II HÜ 1 Analysis III ΗÜ 1 **Complex Functions** 29

Fornhlrs/wk

VL 2

UE 2

VL 2

PS₂

HÜ 1

VL 2

UE 2

| | | Analysis II UE | E 1 | Differential Equations 1 | HÜ 1 | Differential Equations 2 | HÜ 1 |
|----|---|----------------|-----|--------------------------|------|--------------------------|------|
| 31 | | | | | | | |
| 32 | | | | | | | |
| | Nontechnical Complementary Courses for Bachelors (from catalogue) - 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.