

Course of Study Computational Science and Engineering (Study Cohort w18)

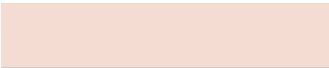
Sample course plan M Bachelor Computational Science and Engineering (IIWBS)
Specialisation Engineering Sciences

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk						
1	Discrete Algebraic Structures	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Engineering Mechanics I	VL 3	Engineering Mechanics II	VL 3	Seminars Computer Science and Mathematics	SE 2	Stochastics	VL 2						
2													Discrete Algebraic Structures	Electrical Engineering II: Alternating Current Networks and Basic Devices	Engineering Mechanics I	Engineering Mechanics II	Seminar Computational Engineering Science	Stochastics
3													Discrete Algebraic Structures	Electrical Engineering II: Alternating Current Networks and Basic Devices	Engineering Mechanics I	Engineering Mechanics II	Seminar Computer Science/Mathematics	Stochastics
4													Discrete Algebraic Structures	Electrical Engineering II: Alternating Current Networks and Basic Devices	Engineering Mechanics I	Engineering Mechanics II	Seminar Computer Science/Engineering Mathematics	Stochastics
5													Discrete Algebraic Structures	Electrical Engineering II: Alternating Current Networks and Basic Devices	Engineering Mechanics I	Engineering Mechanics II	Seminar Computer Science/Engineering Mathematics	Stochastics
6													Discrete Algebraic Structures	Electrical Engineering II: Alternating Current Networks and Basic Devices	Engineering Mechanics I	Engineering Mechanics II	Seminar Computer Science/Engineering Mathematics	Stochastics
7	Procedural Programming	VL 1	Objectoriented Programming, Algorithms and Data Structures	VL 4	Numerical Mathematics I	VL 2	Signals and Systems	VL 3	Introduction to Control Systems	VL 2	Electrical Machines and Actuators	VL 3						
8													Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Electrical Machines and Actuators
9													Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Electrical Machines and Actuators
10													Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Electrical Machines and Actuators
11													Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Electrical Machines and Actuators
12	Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Electrical Machines and Actuators												
13	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Automata Theory and Formal Languages	VL 2	Computer Engineering	VL 3	Embedded Systems	VL 3	Technical Thermodynamics II	VL 2	Fluid Dynamics	VL 3						
14													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Technical Thermodynamics II	Fluid Dynamics
15													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Technical Thermodynamics II	Fluid Dynamics
16													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Technical Thermodynamics II	Fluid Dynamics
17	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Technical Thermodynamics II	Fluid Dynamics												
18	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Technical Thermodynamics II	Fluid Dynamics												
19	Mathematics I	VL 2	Foundations of Management	VL 3	Computernetworks and Internet Security	VL 3	Graph Theory and Optimization	VL 2	Engineering Mechanics III (GES)	HÜ 1	Bachelor Thesis							
20													Linear Algebra I	Foundations of Management	Computernetworks and Internet Security	Graph Theory and Optimization	Engineering Mechanics III (GES)	
21													Linear Algebra I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Mechanics III	
22													Linear Algebra I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Mechanics III	
23			Analysis I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Mechanics III											
24			Analysis I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Mechanics III											
25			Analysis I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Mechanics III											
26	Mathematics II	VL 2	Mathematics III	VL 2	Technical Thermodynamics I	VL 2	Engineering Mechanics III (GES)	HÜ 1	VL 3	HÜ 1								
27											Linear Algebra II	Mathematics III	Technical Thermodynamics I	Engineering Mechanics III (GES)				
28											Linear Algebra II	Mathematics III	Technical Thermodynamics I	Engineering Mechanics III (GES)				
29	Linear Algebra II	Mathematics III	Technical Thermodynamics I	Engineering Mechanics III (GES)														
29	Analysis II	Mathematics III	Differential Equations 1	Technical Thermodynamics I	Engineering Mechanics III (GES)													

30	Analysis II	HÜ 1	Differential Equations 1	UE 1	Technical	UE 1
31	Analysis II	UE 1	Differential Equations 1	HÜ 1	Thermodynamics I	
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.