

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

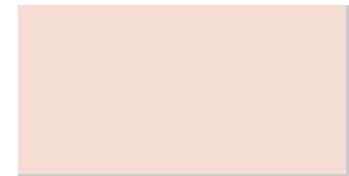
Sample course plan E Bachelor Computational Science and Engineering (IIWBS)
Specialisation Engineering Sciences

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 Engineering IV: Transmission Lines and Research Seminar	VL 2						
8													Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Transmission Line Theory
9													Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Research Seminar
10													Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Electrical Engineering, Computer Science, Mathematics
11													Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Transmission Line Theory
12	Procedural Programming	Objectoriented Programming, Algorithms and Data Structures	Numerical Mathematics I	Signals and Systems	Introduction to Control Systems	Transmission Line Theory												
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	Electrical Engineering III: Circuit Theory and Transients	VL 3	Materials in Electrical Engineering	VL 2						
14													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Circuit Theory	Materials in Electrical Engineering
15													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Circuit Theory	Materials in Electrical Engineering
16													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Circuit Theory	Materials in Electrical Engineering
17	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Circuit Theory	Materials in Electrical Engineering												
18	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Automata Theory and Formal Languages	Computer Engineering	Embedded Systems	Circuit Theory	Materials in Electrical Engineering												
19	Mathematics I	VL 2	Foundations of Management	VL 3	Computernetworks and Internet Security	VL 3	Graph Theory and Optimization	VL 2	Electrical Power Systems I: Introduction to Electrical Power Systems	VL 3	Bachelor Thesis							
20													Linear Algebra I	Introduction to Management	Computer Networks and Internet Security	Graph Theory and Optimization	Electrical Power Systems I: Introduction to Electrical Power Systems	
21													Linear Algebra I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Electrical Power Systems I: Introduction to Electrical Power Systems	
22													Linear Algebra I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Electrical Power Systems I: Introduction to Electrical Power Systems	
23													Analysis I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Electrical Power Systems I: Introduction to Electrical Power Systems	
24													Analysis I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Electrical Power Systems I: Introduction to Electrical Power Systems	
25													Analysis I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Electrical Power Systems I: Introduction to Electrical Power Systems	
26	Analysis I	Management Tutorial	Computer Networks and Internet Security	Graph Theory and Optimization	Electrical Power Systems I: Introduction to Electrical Power Systems													
25			Mathematics II		Mathematics III		Mathematics IV											
26			Linear Algebra II	VL 2	Analysis III	VL 2	Complex Functions	VL 2										
27			Linear Algebra II	VL 2	Analysis III	VL 2	Complex Functions	VL 2										

28	Linear Algebra II	UE 1	Analysis III	UE 1	Complex Functions	UE 1
29	Linear Algebra II	HÜ 1	Analysis III	HÜ 1	Complex Functions	HÜ 1
30	Analysis II	VL 2	Differential Equations 1	VL 2	Differential Equations 2	VL 2
	Analysis II	HÜ 1	Differential Equations 1	UE 1	Differential Equations 2	UE 1
	Analysis II	UE 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.