

Course programm "CAD and Engineering Design"

Start in winter term, full-time studies (100 %):

C: Credit points H: Contact hours

	Informatics	C	H	Applications	C	H	General Studies	C	H	C	H
1	Algorithmic Geometry	5	3	Engineering Design and CAD I	5	3				30	20
	Robotics I	5	3								
	DB & Inform. Syst. III (Part 1)	4	3	Finite Element Analysis	4	3	Underst. & Evaluating Emp.	3	2		
	Progr. of Inn. Comp. Arch. (Part 1)	4	3								
2	Robotics II	5	3	Engineering Design and CAD II	3	2				30	19
	Progr. of Inn. Comp. Arch. (Part 2)	4	3				Found. of Intercultural Communic.	6	2		
	DB & Inform. Syst. III (Part 2)	4	3								
	Small Master Project A	8	6								
3	Small Master Project B	8	6	CAD Course Pro/ENGINEER	2	1				30	22
	Computer Graphics II	5	3								
	Big Master Project	15	12								
4	Master Thesis	30	0							30	0
5										0	0
6										0	0
	Credits: 95 (93...99)	97	48	Credits: 15 (13...19)	14	9	Credits: 10 (8...14)	9	4	120	61

(incl. Projects and Thesis)

Course programm "CAD and Engineering Design"

Start in winter term, part-time studies (50 %):

C: Credit points H: Contact hours

	Informatics			Applications			General Studies			C	H	
	C	H		C	H		C	H				
1	Algorithmic Geometry	5	3	Engineering Design and CAD I	5	3		0	0	0	15	9
	Robotics I	5	3		0	0		0	0	0		
2	Robotics II	5	3	Engineering Design and CAD II	3	2		0	0	0	12	8
	Progr. of Inn. Comp. Arch. (Part 2)	4	3		0	0		0	0	0		
3	DB & Inform. Syst. III (Part 1)	4	3	Finite Element Analysis	4	3	Underst. & Evaluating Emp.	3	2		15	11
	Progr. of Inn. Comp. Arch. (Part 1)	4	3		0	0		0	0	0		
4	DB & Inform. Syst. III (Part 2)	4	3		0	0	Found. of Intercultural Communic.	6	2		18	11
	Small Master Project A	8	6		0	0		0	0	0		
5	Small Master Project B	8	6	CAD Course Pro/ENGINEER	2	1		0	0	0	15	10
	Computer Graphics II	5	3		0	0		0	0	0		
6	Big master project	15	12		0	0		0	0	0	15	12
		0	0		0	0		0	0	0		
7	Master thesis (part 1)	15	0		0	0		0	0	0	15	0
		0	0		0	0		0	0	0		
8	Master thesis (part 2)	15	0		0	0		0	0	0	15	0
		0	0		0	0		0	0	0		
9		0	0		0	0		0	0	0	0	0
		0	0		0	0		0	0	0		
10		0	0		0	0		0	0	0	0	0
		0	0		0	0		0	0	0		
11		0	0		0	0		0	0	0	0	0
		0	0		0	0		0	0	0		
12		0	0		0	0		0	0	0	0	0
		0	0		0	0		0	0	0		
	Credits: 95 (93...99)	97	48	Credits: 15 (13...19)	14	9	Credits: 10 (8...14)	9	4		120	61

(incl. Projects and Thesis)

Course programm "Experimentation and Measurement"

Start in winter term, full-time studies (100 %):

C: Credit points H: Contact hours

	Informatics	C	H	Applications	C	H	General Studies	C	H	C	H
1	Pattern recognition	5	3	Physical Computing	7	6				31	23
	Scientific Computing (Part 1)	4	3	Technical Physics: Measurement	5	4					
	Security in Distributed Systems	5	3	Real-time Comp. & Electric. Engin.	5	4					
2	Computer Vision	5	3				Found. of Intercultural Communic.	6	2	31	19
	Embedded Systems	5	3				Underst. & Evaluating Emp.	3	2		
	Scientific Computing (Part 2)	4	3								
	Small Master Project A	8	6								
3	Robotics I	5	3							28	21
	Small Master Project B	8	6								
	Big Master Project	15	12								
4	Master Thesis	30	0							30	0
5										0	0
6										0	0
	Credits: 95 (93...99)	94	45	Credits: 15 (13...19)	17	14	Credits: 10 (8...14)	9	4	120	63

(incl. Projects and Thesis)

Course programm "Experimentation and Measurement"

Start in winter term, part-time studies (50 %):

C: Credit points H: Contact hours

	Informatics			Applications			General Studies			C	H			
	C	H		C	H		C	H						
1	5	3	Physical Computing	7	6		0	0	0	17	13			
	0	0	Technical Physics: Measurement	5	4		0	0	0					
2	5	3	Computer Vision	0	0	Found. of Intercultural Communic.	6	2		16	8			
	5	3	Embedded Systems	0	0		0	0	0					
3	4	3	Scientific Computing (Part 1)	0	0		0	0	0	14	10			
	5	3	Security in Distributed Systems	5	4	Real-time Comp. & Electric. Engin.	0	0	0					
4	4	3	Scientific Computing (Part 2)	0	0	Underst. & Evaluating Emp.	3	2		15	11			
	8	6	Small Master Project A	0	0		0	0	0					
5	5	3	Robotics I	0	0		0	0	0	13	9			
	8	6	Small Master Project B	0	0		0	0	0					
6	15	12	Big Master project	0	0		0	0	0	15	12			
	0	0		0	0		0	0	0					
7	15	0	Master thesis part I	0	0		0	0	0	15	0			
	0	0		0	0		0	0	0					
8	15	0	Master thesis part II	0	0		0	0	0	15	0			
	0	0		0	0		0	0	0					
9	0	0		0	0		0	0	0	0	0			
	0	0		0	0		0	0	0					
10	0	0		0	0		0	0	0	0	0			
	0	0		0	0		0	0	0					
11	0	0		0	0		0	0	0	0	0			
	0	0		0	0		0	0	0					
12	0	0		0	0		0	0	0	0	0			
	0	0		0	0		0	0	0					
	Credits: 95 (93...99)		94	45	Credits: 15 (13...19)		17	14	Credits: 10 (8...14)		9	4	120	63

(incl. Projects and Thesis)

Course programm "Robotics and Sensor Systems"

Start in winter term, full-time studies (100 %):

C: Credit points H: Contact hours

	Informatics	C	H	Applications	C	H	General Studies	C	H	C	H
1	Robotics I	5	3				Found. of Intercultural Communic.	6	2	31	18
	Interactive Physical Simulation	5	3								
	Pattern Recognition	5	3	Sensors	5	4					
	Algorithmic Geometry	5	3								
2	Robotics II	5	3	Measurement	4	3				31	21
	Computer Vision	5	3								
	Embedded Systems	5	3	Control Engineering	4	3					
	Small Master Project A	8	6								
3	Small Master Project B	8	6				Developing Ideomatic Compet.	2	2	28	22
							Strat. Think. & Compl. Probl. Solv.	3	2		
	Big Master Project	15	12								
4	Master Thesis	30	0							30	0
5										0	0
6										0	0
	Credits: 95 (93...99)	96	45	Credits: 15 (13...19)	13	10	Credits: 10 (8...14)	11	6	120	61

(incl. Projects and Thesis)

Course programm "Robotics and Sensor Systems"

Start in winter term, part-time studies (50 %):

C: Credit points H: Contact hours

	Informatics		Applications		General Studies		C	H					
	C	H	C	H	C	H	C	H					
1	Robotics I	5	3		0	0	0	Found. of Intercultural Communic.	6	2	16	8	
	Interactive Physical Simulation	5	3		0	0	0		0	0			
2	Robotics II	5	3	Measurement		4	3		0	0	0	14	9
	Computer Vision	5	3		0	0	0		0	0	0		
3	Pattern Recognition	5	3	Sensors		5	4		0	0	0	15	10
	Algorithmic Geometry	5	3		0	0	0		0	0	0		
4	Embedded Systems	5	3	Control Engineering		4	3		0	0	0	17	12
	Small Master Project A	8	6		0	0	0		0	0	0		
5	Small Master Project B	8	6		0	0	0	Developing Ideomatic Compet.	2	2	13	10	
		0	0		0	0	0	Strat. Think. & Compl. Probl. Solv.	3	2			
6	Big Master Project	15	12		0	0	0		0	0	0	15	12
		0	0		0	0	0		0	0	0		
7	Master Thesis (Part I)	15	0		0	0	0		0	0	0	15	0
		0	0		0	0	0		0	0	0		
8	Master Thesis (Part II)	15	0		0	0	0		0	0	0	15	0
		0	0		0	0	0		0	0	0		
9		0	0		0	0	0		0	0	0	0	0
		0	0		0	0	0		0	0	0		
10		0	0		0	0	0		0	0	0	0	0
		0	0		0	0	0		0	0	0		
11		0	0		0	0	0		0	0	0	0	0
		0	0		0	0	0		0	0	0		
12		0	0		0	0	0		0	0	0	0	0
		0	0		0	0	0		0	0	0		
	Credits: 95 (93...99)	96	45	Credits: 15 (13...19)	13	10		Credits: 10 (8...14)	11	6	120	61	

(incl. Projects and Thesis)

Course programm "Geoinformatics"

Start in winter term, full-time studies (100 %):

C: Credit points H: Contact hours

	Informatics	C	H	Applications	C	H	General Studies	C	H	C	H
1	Pattern Recognition	5	3	Hydrology	3	4	Academic Research Techniques	5	3	30	22
	Algorithms and Data Structures II	5	3								
	DB & Information Syst. III (Part 1)	4	3	Remote Sensing/GIS	5	4	Underst. & Evaluating Emp.	3	2		
2	Computer Vision	5	3	Modelling in Geoecology	3	2				30	18
	Software Engineering II	5	3								
	DB & Information Syst. III (Part 2)	4	3	Key Issues of Ecological Modelling	5	2	Strat. Think. & Compl. Probl. Solv.	3	2		
	Progr. of Inn. Comp. Arch.	5	3								
3	Big Master Project A	15	12							30	24
	Big Master Project B	15	12								
4	Master Thesis	30	0							30	0
5										0	0
6										0	0
	Credits: 95 (93...99)	93	45	Credits: 15 (13...19)	16	12	Credits: 10 (8...14)	11	7	120	64

(incl. Projects and Thesis)

Course programm "Geoinformatics"

Start in winter term, part-time studies (50 %):

C: Credit points H: Contact hours

	Informatics			Applications			General Studies			C	H	
	C	H		C	H		C	H				
1	5	3	Pattern Recognition	3	4	Hydrology	5	3	Academic Research Techniques	18	13	
	5	3	Algorithms and Data Structures II	0	0		0	0				
2	5	3	Computer Vision	3	2	Modelling in Geoecology	0	0		13	8	
	5	3	Software Engineering II	0	0		0	0				
3	4	3	DB & Information Syst. III (Part 1)	5	4	Remote Sensing/GIS	3	2	Underst. & Evaluating Emp.	12	9	
	0	0		0	0		0	0				
4	4	3	DB & Information Syst. III (Part 2)	5	2	Key Issues of Ecological Modelling	3	2	Strat. Think. & Compl. Probl. Solv.	17	10	
	5	3	Progr. of Inn. Comp. Arch.	0	0		0	0				
5	15	12	Big Master Project A	0	0		0	0		15	12	
	0	0		0	0		0	0				
6	15	12	Big Master Project B	0	0		0	0		15	12	
	0	0		0	0		0	0				
7	15	0	Master thesis (part I)	0	0		0	0		15	0	
	0	0		0	0		0	0				
8	15	0	Master thesis (part II)	0	0		0	0		15	0	
	0	0		0	0		0	0				
9	0	0		0	0		0	0		0	0	
	0	0		0	0		0	0				
10	0	0		0	0		0	0		0	0	
	0	0		0	0		0	0				
11	0	0		0	0		0	0		0	0	
	0	0		0	0		0	0				
12	0	0		0	0		0	0		0	0	
	0	0		0	0		0	0				
	Credits: 95 (93...99)		93	Credits: 15 (13...19)		16	Credits: 10 (8...14)		11	7	120	64

(incl. Projects and Thesis)

Course programm "Virtual Manufacturing"

Start in winter term, full-time studies (100 %):

C: Credit points H: Contact hours

	Informatics	C	H	Applications	C	H	General Studies	C	H	C	H
1	Interactive Physical Simulation	5	3	Production Engineering	4	3	Developing Idiomatic Competence	2	2	30	21
	Robotics I	5	3								
	Scientific Computing (Part 1)	4	3	Mechan. & Biolog. Process Engin.	4	3	Underst. & Evaluating Emp. Results	3	2		
							Strat. Think. & Compl. Probl. Solv.	3	2		
2	Computer Graphics I	5	3	Innovation & Technol. Management	3	2				30	20
	Robotics II	5	3								
	Human Machine Interaction	5	3	Thermal Process Engineering	4	3					
	Small Master Project A	8	6								
3	Small Master Project B	8	6				Current Affairs	2	2	30	23
	Computer Graphics II	5	3								
	Big Master Project	15	12								
4	Master Thesis	30	0							30	0
5										0	0
6										0	0
	Credits: 95 (93...99)	95	45	Credits: 15 (13...19)	15	11	Credits: 10 (8...14)	10	8	120	64

(incl. Projects and Thesis)

Course programm "Virtual Manufacturing"

Start in winter term, part-time studies (50 %):

C: Credit points H: Contact hours

	Informatics			Applications			General Studies			C	H
	C	H		C	H		C	H			
1	Interactive physical simulation	5	3	Production Engineering	4	3	Developing Idiomatic Competence	2	2	16	11
	Robotics I	5	3		0	0		0	0		
2	Computer Graphics I	5	3	Innovation & Technol. Management	3	2		0	0	13	8
	Robotics II	5	3		0	0		0	0		
3	Scientific Computing (Part 1)	4	3	Mechan. & Biolog. Process Engin.	4	3	Underst. & Evaluating Emp.	3	2	14	10
		0	0		0	0	Strat. Think. & Compl. Probl. Solv.	3	2		
4	Human Machine Interaction	5	3	Thermal Process Engineering	4	3		0	0	17	12
	Small Master Project A	8	6		0	0		0	0		
5	Small Master Project B	8	6		0	0	Current Affairs	2	2	15	11
	Computer Graphics II	5	3		0	0		0	0		
6	Big Master project	15	12		0	0		0	0	15	12
		0	0		0	0		0	0		
7	Master thesis (part I)	15	0		0	0		0	0	15	0
		0	0		0	0		0	0		
8	Master thesis (part II)	15	0		0	0		0	0	15	0
		0	0		0	0		0	0		
9		0	0		0	0		0	0	0	0
		0	0		0	0		0	0		
10		0	0		0	0		0	0	0	0
		0	0		0	0		0	0		
11		0	0		0	0		0	0	0	0
		0	0		0	0		0	0		
12		0	0		0	0		0	0	0	0
		0	0		0	0		0	0		
	Credits: 95 (93...99)	95	45	Credits: 15 (13...19)	15	11	Credits: 10 (8...14)	10	8	120	64

(incl. Projects and Thesis)