

Course programm "English Speakers"

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

C: Credit points H: Contact hours

	Informatics	C	H	Projects / Applications	C	H	Studium generale	C	H	C	H
1	Algorithms and data structures II	5	3				German language	2	2	23	16
	Theoretical computer science II	5	3				German language	2	2		
	Pattern recognition	5	3	Application course 1	4	3	German language	2	2		
2	Robotics II	5	3	Application course 2	5	3	German language	2	2	37	25
	Computer graphics I	5	3				German language	2	2		
	Databases and information systems	5	3	Small master project A	8	6	German language	2	2		
	Software engineering II	5	3								
3	Algorithms and data structures III	5	3	Small master project B	8	6	German language	2	2	30	21
				Big master project	15	10					
4	Master thesis	30	2							30	2
5										0	0
6										0	0
	Credits: 60...75	70	26	Credits: 35...57	40	28	Credits: 5...10	10	10	120	64
	(incl. Thesis: 30)			(Projects: 30...32, Applications: 5...25)							

Course programm "English Speakers"

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

C: Credit points H: Contact hours

	Informatics	C	H	Projects / Applications	C	H	Studium generale	C	H	C	H
1	Algorithms and data structures II	5	3		0	0	German language	2	2	12	8
	Theoretical computer science II	5	3		0	0		0	0		
2	Robotics II	5	3	Application course 2	5	3	German language	2	2	17	11
	Computer graphics I	5	3		0	0		0	0		
3		0	0	Application course 1	4	3	German language	2	2	11	8
	Pattern recognition	5	3		0	0		0	0		
4	Databases and information systems	5	3	Small master project A	8	6	German language	2	2	20	14
	Software engineering II	5	3		0	0		0	0		
5	Algorithms and data structures III	5	3	Small master project B	8	6	German language	2	2	15	11
		0	0		0	0		0	0		
6		0	0	Big Master Project	15	10		0	0	15	10
		0	0		0	0		0	0		
7	Master Thesis (Nr.1)	15	1		0	0		0	0	15	1
		0	0		0	0		0	0		
8	Master Thesis (Nr.2)	15	1		0	0		0	0	15	1
		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: 60...75	70	26	Credits: 35...57	40	28	Credits: 5...10	10	10	120	64

(incl. Thesis: 30)

Course programm "English Speakers"

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

C: Credit points H: Contact hours

	Informatics	C	H	Projects / Applications	C	H	Studium generale	C	H	C	H
1	Robotics II	5	3	Application course 1	4	3	German language	2	2	28	19
	Computer graphics I	5	3				German language	2	2		
	Databases and information systems	5	3								
	Software engineering II	5	3								
2	Algorithms and data structures II	5	3	Application course 2	5	3	German language	2	2	37	25
		5	3								
	Theoretical computer science II	5	3	Small master project A	8	6	German language	2	2		
	Pattern recognition	5	3								
3				Small master project B	8	6	German language	2	2	25	18
				Big master project	15	10					
4	Master thesis	30	0							30	0
5										0	0
6										0	0
	Credits: 60...75	70	24	Credits: 35...57	40	28	Credits: 5...10	10	10	120	62
	(incl. Thesis: 30)			(Projects: 30...32, Applications: 5...25)							

Course programm "English Speakers"

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

C: Credit points H: Contact hours

	Informatics	C	H	Projects / Applications	C	H	Studium generale	C	H	C	H
1	Robotics II	5	3	Application course 1	4	3	German language	2	2	16	11
	Computer graphics I	5	3		0	0		0	0		
2	Algorithms and data structures II	5	3	Application course 2	5	3	German language	2	2	17	11
		0	5		0	0		0	0		
3	Databases and information systems	5	3		0	0	German language	2	2	12	8
	Software engineering II	5	3		0	0		0	0		
4	Theoretical computer science II	5	3	Small master project A	8	6	German language	2	2	20	14
	Pattern recognition	5	3		0	0		0	0		
5		0	0	Small master project B	8	6	German language	2	2	10	8
		0	0		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 (Nr.1)	15	0	Big master project	15	10		0	0	30	10
		0	0		0	0		0	0		
8	Master Thesis (Nr.2)	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: 60...75	85	36	Credits: 35...57	40	28	Credits: 5...10	10	10	135	74

(incl. Thesis: 30)

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	Studium generale	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 (Nr.1)	4	3	Finite Element Analysis	4	3	Underst. & Evaluating Emp.	3	2		
	Progr. of Inn. Comp. Arch. (Nr.1)	4	3								
2	Robotics II	5	3	Engineering Design and CAD II	3	2				30	19
	Progr. of Inn. Comp. Arch. (Nr.2)	4	3								
	DB & Inform. Syst. III (Nr.2)	4	3				Found. of Intercultural Communic.	6	2		
	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: 90...107	97	48	Credits: 5...25	14	9	Credits: 5...10	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			Studium generale			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. (Nr.2)	4	3		0	0		0	0	0		
3	DB & Inform. Syst. III (Nr.1)	4	3	Finite Element Analysis	4	3	Underst. & Evaluating Emp.	3	2		15	11
	Progr. of Inn. Comp. Arch. (Nr.1)	4	3		0	0		0	0	0		
4	DB & Inform. Syst. III (Nr.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 (Nr.1)	15	0		0	0		0	0	0	15	0
		0	0		0	0		0	0	0		
8	Master Thesis (Nr.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: 90...107	97	48	Credits: 5...25	14	9	Credits: 5...10	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	Studium generale	C	H	C	H
1	Robotics I	5	3	Physical Computing	7	6				31	23
	Scientific Computing (Nr.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 (Nr.2)	4	3								
	Small Master Project A	8	6								
3	Pattern recognition	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: 90...107	94	45	Credits: 5...25	17	14	Credits: 5...10	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	C	H	Applications	C	H	Studium generale	C	H	C	H	
1	Robotics I	5	3	Physical Computing	7	6		0	0	0	17	13
		0	0	Technical Physics: Measurement	5	4		0	0	0		
2	Computer Vision	5	3		0	0	Found. of Intercultural Communic.	6	2	16	8	
	Embedded Systems	5	3		0	0		0	0	0		
3	Scientific Computing (Nr.1)	4	3		0	0		0	0	14	10	
	Security in Distributed Systems	5	3	Real-time Comp. & Electric. Engin.	5	4		0	0	0		
4	Scientific Computing (Nr.2)	4	3		0	0	Underst. & Evaluating Emp.	3	2	15	11	
	Small Master Project A	8	6		0	0		0	0	0		
5	Pattern recognition	5	3		0	0		0	0	13	9	
	Small Master Project B	8	6		0	0		0	0	0		
6	Big Master Project	15	12		0	0		0	0	15	12	
		0	0		0	0		0	0	0		
7	Master Thesis (Nr.I)	15	0		0	0		0	0	15	0	
		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	0		
9		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		
11		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		
	Credits: 90...107	94	45	Credits: 5...25	17	14	Credits: 5...10	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	Studium generale	C	H	C	H
1	Robotics I	5	3	Electrical Engineering	5	3	Found. of Intercultural Communic.	6	2	31	18
	Pattern Recognition	5	3	Sensors	5	4					
	Algorithmic Geometry	5	3								
2	Robotics II	5	3	Measurement Engineering	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
	Big Master Project	15	12				Strat. Think. & Compl. Probl. Solv.	3	2		
4	Master Thesis	30	0							30	0
5										0	0
6										0	0
	Credits: 90...107	91	42	Credits: 5...25	18	13	Credits: 5...10	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	C	H	Applications	C	H	Studium generale	C	H	C	H
1	Robotics I	5	3	Electrical Engineering	5	3	Found. of Intercultural Communic.	6	2	16	8
		0	0		0	0		0	0		
2	Robotics II	5	3	Measurement Engineering	4	3		0	0	14	9
	Computer Vision	5	3		0	0		0	0		
3	Pattern Recognition	5	3	Sensors	5	4		0	0	15	10
	Algorithmic Geometry	5	3		0	0		0	0		
4	Embedded Systems	5	3	Control 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	Developing Ideomatic Compet.	2	2	13	10
		0	0		0	0	Strat. Think. & Compl. Probl. Solv.	3	2		
6	Big Master Project	15	12		0	0		0	0	15	12
		0	0		0	0		0	0		
7	Master Thesis (Nr.I)	15	0		0	0		0	0	15	0
		0	0		0	0		0	0		
8	Master Thesis (Nr.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: 90...107	91	42	Credits: 5...25	18	13	Credits: 5...10	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	Studium generale	C	H	C	H
1	Pattern Recognition	5	3	Design of Simulation models I	6	4				26	17
	Algorithms and Data Structures II	5	3								
	DB & Information Syst. III (Nr.1)	4	3	Remote Sensing/Digital Image Proc.	3	2	Underst. & Evaluating Emp.	3	2		
2	Computer Vision	5	3	Modelling in Geoecology	7	4				31	19
	Software Engineering II	5	3								
	DB & Information Syst. III (Nr.2)	4	3				Strat. Think. & Compl. Probl. Solv.	3	2		
	Progr. of Inn. Comp. Arch.	5	3	Geo-Information Systems (Nr.1)	2	1					
3	Big Master Project A	15	12	Geo-Information Systems (Nr.2)	3	3				33	27
	Big Master Project B	15	12								
4	Master Thesis	30	0							30	0
5										0	0
6										0	0
	Credits: 90...107	93	45	Credits: 5...25	21	14	Credits: 5...10	6	4	120	63

(incl. Projects and Thesis)

Course programm "Geoinformatics"

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

C: Credit points H: Contact hours

	Informatics			Applications			Studium generale			C	H	
1	Pattern Recognition	5	3	Design of Simulation models I	6	4		0	0	0	16	10
	Algorithms and Data Structures II	5	3		0	0		0	0	0		
2	Computer Vision	5	3	Modelling in Geoecology	7	4		0	0	0	17	10
	Software Engineering II	5	3		0	0		0	0	0		
3	DB & Information Syst. III (Nr.1)	4	3	Remote Sensing/Digital Image Proc.	3	2	Underst. & Evaluating Emp.	3	2		10	7
		0	0		0	0		0	0	0		
4	DB & Information Syst. III (Nr.2)	4	3		0	0	Strat. Think. & Compl. Probl. Solv.	3	2		14	9
	Progr. of Inn. Comp. Arch.	5	3	Geo-Information Systems (Nr.1)	2	1		0	0	0		
5	Big Master Project A	15	12	Geo-Information Systems (Nr.2)	3	3		0	0	0	18	15
		0	0		0	0		0	0	0		
6	Big Master Project B	15	12		0	0		0	0	0	15	12
		0	0		0	0		0	0	0		
7	Master Thesis (Nr.I)	15	0		0	0		0	0	0	15	0
		0	0		0	0		0	0	0		
8	Master Thesis (Nr.II)	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: 90...107	93	45	Credits: 5...25	21	14	Credits: 5...10	6	4		120	63

(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	Studium generale	C	H	C	H
1	Animation and Simulation	5	3	Production Engineering	4	3	Developing Idiomatic Competence	2	2	30	21
	Robotics I	5	3								
	Scientific Computing (Nr.1)	4	3	Mechan. & Biolog. Process Engin.	4	3	Underst. & Evaluating Emp.	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								
	Artificial Intelligence II	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: 90...107	95	45	Credits: 5...25	15	11	Credits: 5...10	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	C	H	Applications	C	H	Studium generale	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 (Nr.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	Artificial Intelligence II	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 (Nr.I)	15	0		0	0		0	0	15	0
		0	0		0	0		0	0		
8	Master Thesis (Nr.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: 90...107	95	45	Credits: 5...25	15	11	Credits: 5...10	10	8	120	64

(incl. Projects and Thesis)