Faculty of Engineering

Albert-Ludwigs-Universität, University of Freiburg

Master of Science in Computer Science

Examination regulations version 2011

example for study plan sorted by modules

sem	modules/courses		PL SL	hours/week L	E	S	Pr	ECTS	total
core areas in computer science (1 or 2 courses) (1. PL, 2. SL)								**6 or 12**	
1 / 2	**algorithms theory (winter)**	**key course**	PL/SL	3	1	0	0	6	
	image processing and computer								
1 / 2	**graphics (winter)**	**key course**	PL/SL	3	1	0	0	6	
	data bases and information systemes								
1 / 2	**(winter)**	**key course**	PL/SL	3	1	0	0	6	
1 / 2	**software engineering (summer)**	**key course**	PL/SL	3	1	0	0	6	
1 / 2	**artificial intelligence (summer)**	**key course**	PL/SL	3	1	0	0	6	
1 / 2	**computer architecture (summer)**	**key course**	PL/SL	3	1	0	0	6	
advanced computer science (2 or 1 courses)								**12 or 6**	
1-3	**specialization course 1**	**specialization c.**	PL	3	1	0	0	6	
1-3	**specialization course 2**	**specialization c.**	PL	3	1	0	0	6	
specialization area:									**24**
specialization in computer science I									**12**
1-3	**specialization course I1**	**specialization c.**	PL	3	1	0	0	6	
1-3	**specialization course I2**	**specialization c.**	PL	3	1	0	0	6	
specialization in computer science II									**12**
1-3	**specialization course II1**	**specialization c.**	PL	3	1	0	0	6	
1-3	**specialization course II2**	**specialization c.**	PL	3	1	0	0	6	
specialization in computer science III (replacing II, if numerics is taken)									12
1	numerics part 1	maths course	SL	2	1	0	0	4	
2	numerics part 2	maths course	SL	2	1	0	0	4	
1 - 3	specialization course III2	specialization c.	PL	2	1	0	0	4	
seminar									**8**
1-3	**seminar 1** *(in specialization area)*	**seminar**	SL	0	0	2	0	4	
1-3	**seminar 2**	**seminar**	SL	0	0	2	0	4	
lab course									**6**
1-3	**lab course**	**lab course**	SL	0	0	0	4	6	
master project									**16**
3	**project**	**project**	PL	x	x	x	x	16	
elective module								**at least 18**	
1 to 4	**courses outside the subject area**	**elective module**	PL/SL	x	x	x	x	at least 18	
master module									**30**
4	**master thesis**	**-**	PL	x	x	x	x	25	
4	**master seminar**	**presentation**	SL	0	0	2	0	5	

legend:

PL = graded assessment , SL= pass/fail assessment, L=Lecture, E=Exercises, S=Seminar, Pr=Project or Lab course

X=unknown/depends on subject

*** CONDITIONS:**
If you choose 2 key courses (12 ECTS) in the module core areas in computer science, you only take one specialization course in advanced computer science (6 ECTS). Alternatively, you take one key course (6 ECTS) in the core areas in computer science, and combine it with two specialization courses (12 ECTS) in advanced computer science.

In the specialization area, you take the modules specialization in computer science I and II; if you want to take numerics, module II is replaced by module III.
The specialization courses taken inside the specialization area have to belong to the same one of the following areas:

- **Cognitive technical systems**
- **Cyber-Physical systems**
- **Information systems**

You have to take two seminars;
one of them has to be part of your chosen specialization area.

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