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## Faculty of Engineering University of Freiburg

## Master of Science in Embedded Systems Engineering

Examination regulations version 2012

example for study plan sorted by modules



Sem modules/courses	type of course	PL SL				eek Pr	ECTS	total
Mandatory area Please consider the regulations								69
1 / 2 algorithms theory (winter) 1 / 2 image processing and	key course	PL	3	1	0	0		6
computer graphics (winter) 1/2 data bases and information	key course	PL	3	1	0	0		6
systemes (winter)	key course	PL	3	1	0	0		6
1 / 2 software engineering (summer)	key course	PL	3	1	0	0		6
1 / 2 artificial intelligence (summer)	key course	PL			0	0		6
1/2 computer architecture (summer)	-	PL			0			6
1/2 Specialization course in Computer Science 1/2 Cyber-Physical-Systems -	specialization course	PL	3	1	0	0		6
Discrete Models 1/2 Modelling and System	mandatory lecture	PL	3	1	0	0		6
Identification	mandatory lecture	PL	3	1	0	0		6
1 / 2 Sensors 1 / 2 Assembly and Packaging	mandatory lecture	PL		0		1		5
Technology 1/2 Microelectronics	mandatory lecture mandatory lecture	PL PL			0 0			5 5
Elective area								mind. 51
Concentrations areas Please consider the regulations								mind. 30
1 to Circuits and Systems - Moduls 4	Concentrations	PL	х	х	Х	х	3,5	<b>5</b> ,6
1 to Design und Simulation - 4 Moduls	Concentrations	PL	x	х	х	х	3,5	<b>,</b> 6
1 to Sensors and Actuators - 4 Moduls	Concentrations	PL	х	х	Х	х	3,5	<b>6</b> ,6
<ol> <li>1 to Reliable Embedded Systems -</li> <li>4 Moduls</li> </ol>	specialization course, lab course, seminar	PL	х	х	Х	x	4	,6
1 to Distributed Systems - Moduls 4	specialization course, lab course, seminar	PL	x	х	х	x	4	,6
1 to Robotics and Computer Vision - 4 Moduls	specialization course, lab course, seminar	PL	x	х	x	x	4	,6

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Master of Science in Embedded Systems Engineering

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example for study plan sorted by modules

ese
embedded systems
engineering

Sem modules/courses	type of course	PL SL	hours/week	
Personal Profile - area Please consider the regulations				mind. 15
1 to Personal Profile - Module 4	Concentrations, specialization course, lab course, seminar	PL	x x x x	3,4,5,6
Mastermodul				30
4 Masterarbeit 4 Masterseminar	- Präsentation	PL SL	x x x x 0 0 2 0	27 3

* REGULATIONS:	
In the mandatory area you have	e to select 1 key course
	course or a specialization course.
The elective area is divided into	o the areas Concentrations and Personal Profile.
In total you have to acquire at I	east 51 ECTS credits.
In the concentrations areas you	u have to choose one specific area in each group:
Group 1:	Group 2:
- Circuits and Systems	- Reliable Embedded Systems
- Design and Simulation	- Distributed Systems
- Sensors and Actors	- Robotics and Computer Vision
You have to select courses am	ounting to at least 15 ECTS credits in each of the two groups.
You are allowed to take only 2	seminars in total.
In the Personal Profile you have	e to select courses amounting to at least 15 ECTS credits.