

## Appendix to the SEM Study Regulations: Curriculum

C / O	Mod	SEM	Modules: Structural Engineering Master	Σ ECTS	Semester				Semester Hours
					1	2	3	4	
					ECTS				
C	B100	1000	Numerical Methods and Simulation Technology in Mechanics	3	3				2
C	B200	2000	Finite Element Method / Surface Structures I	6					4
		2001	Finite Element Method	3/6	3				2/4
		2002	Planar Surface Structures	3/6	3				2/4
C	B300	3000	Prestressed Concrete Construction	6	6				4
C	B400	4000	Spread Foundation	3	3				2
C	B501	5000	Bridge Design	6		6			4
C	B600	6000	Composite Structures	6		6			4
C	B700	7000	Structural Dynamics	3		3			2
C	B799	8000	Practical Course on Finite Elements	3			3		2
C	B905	9000	Selected Topics of Structural Mechanics	6			6		4
C	B110	1100	Experimental Mechanics	3			3		2
C	B120	1200	Reinforced Concrete Structures	6			6		4
C	B130	1300	Steel Construction	3			3		2
C	B341	3400	Construction Technology	3			3		2
C	B350	3500	Advanced Building Materials	3			3		2
C	F140	1400	Foreign Language: Academic English	9	3	3	3		6
C	B150	1500	Master Thesis	30					
		1501	Master Thesis	22,5/30				22,5/30	
		1502	Defence	7,5/30				7,5/30	
Σ Compulsory Modules				99	21	18	30	30	46
O	B160	1600	Modern and Historical Building Materials	3	3				2
O	B170	1700	Construction Materials and Environment	3	3				2
O	B180	1800	Energy-Efficient and Environmentally Compatible Building	3	3				2
O	B190	1900	Glass and Plastic Material Construction	3	3				2
O	B210	2100	Selected Topics in Steel Structures	6	6				4
O	B220	2200	Selected Topics in Reinforced Concrete	6	6				4
O	B230	2300	Three Dimensional Concrete Structures	6	6				4
O	B240	2400	Precast Concrete Structures	6	6				4
O	U250	2500	Extracurricular Studies	3	3				2
O	B260	2600	Programming in Building Industries	3	3				2
O	B270	2700	High-rise Buildings	3	3				2
O	B281	2800	Reconstruction and Demolition of Buildings	3	3				2
O	B290	2900	Seismic Design of Buildings	3	3				2
O	B310	3100	Building Services	3	3				2
O	B320	3200	Construction Management	3	3				2
O	B330	3300	Design Project	3	3				2
Σ Optional (elective) Modules				21	21				14
Σ Total				120	60		60		60
C	Compulsory module			ECTS	Partner University	HTWK Leipzig	1h = 45 min		
O	Optional (elective) module								