## Study Guide of Master Degree Program of Civil Engineering (M. ENG.) / Examination Regulations 2011 Deadlines, Examination (written), Course achievements

	Study Guide			
	1. Sem.	2. Sem.	3. Sem.	
elective modules	30 CP			
elective modules		30 CP		
elective modules			15 CP	
Master-Thesis			15 CP	

At least 45 CP have to be acquired from the core area of Civil Engineering while up to 30 CP can also be earned from modules of other departments (Studium Generale).

Modulcode	Description of module	CP	Semester	PL, SL, PVL		
General Modules						
GEO-3	Selected Chapters of Geotechnical Engineering	5	Winter	PL		
FEMG	Finite Element Methods	5	Summer	PL		
GEOS	Geotechnical Engineering in road construction	5	Summer	SL, PL		
GEOW	Geotechnical Engineering in water construction	5	Winter	SL, PL		
MATH-3	Higher Mathematics	5	Winter	PL		
MATH-4	Statistical Methods	5	Winter	PL		
MATH-5	Numerical Methods	5	Summer	PL		
MWIP-1*	Scientific research project	5	Winter/Summer	PL*		
MWIP-2*	Scientific research project	10	Winter/Summer	PL*		
MWIP-3*	Scientific research project	15	Winter/Summer	PL*		
Focus on Construction Operation						
BBET-4	Construction Operation 4: Price finding	5	Winter	PL		
BBET-5	Construction Operation 5: Project Management	5	Summer	PI		
BBET-6	Construction Operation 6: Claim Management	5	Summer	PI		
BBET-7	Construction Operation 7: Tender procedure and law	5	Winter	PI		
PROM-1	Management structures in building companies	5	Winter	SI PI		
PROM-2	Site Management	5	Summer	SI PI		
PROM 3	Principles of leadership and Decision making Techniques	5	Summer	SI		
	Peal Estate Management 1	5	Winter	DI		
	Real Estate Management 2	5	Winter			
Schwernunkt F		5	Winter	FL		
	Sustainable Construction and energy-efficient building			-		
EPLA-1	design	5	Winter	PL		
FASA	Façade	5	Summer	PL		
Focus on Structural Engineering						
BRAND	Structural Fire Protection	5	Winter	SL		
BTEC-2	Advanced Study of Concrete Technology	5	Summer	PL		
BFBA	Concrete Construction					
BSIB-3	Protection and Maintenance of Concrete Building Parts	5	Winter/Summer	SL, PL		
BRUB	Structural Design of Bridges	5	Winter	SL, PL		
	Structural Design of Timber Construction 2	5	Winter	SL SI PI		
NABA	Sustainable Building 1	5	Summer	PL		
NABA-2	Sustainable Building 2	5	Winter	PL		
STAHL-3	Structural Design of Steel 3	5	Summer	SL, PL		
STAHL-4	Structural Design of Steel 4	5	Winter	SL, PL		
STBB-4	Structural Design of Reinforced Concrete 4	5	Summer	SL, PL		
SPAN	Structural Design of Prestressed Concrete	5	Winter	SL, PL		
STAT-5	Structural Analysis 5	5	Winter	PL		
STAT-6	Structural Analysis 6	5	Summer Winter/Summer	PL		
VERB-1	Structural Design of Steel-Concrete Composition 1	5	Summer			
VERB-2	Structural Design of Steel-Concrete Composition 2	5	Winter	SL, PL		
ENVE	Design and Planning of Bridges and Earth Retaining Struct	5	Summer	PL		
BBHO	Structural Design of Existing Buildings	5	Summer	SL, PL		
INPL	Integral Planning	5	Winter	PL		
Focus on Planning, Transport and Water						
ASPT	Asphalt technology	5	Winter	SL, PL		
EISB	Railway Construction 2	5	Sommer	SL, PL		
FLPB	Airport Planning	5	Winter	PL		
GIS	Geographical Information Systems	5	Winter	PL		
ÖPNV	Urban Public Transport	5	Winter	PL		
GVPL	Freight Traffic Planning and Logistics	5	Summer	PL		
	Emission protection	5 5	Winter			
SIWW-2	Urban Water Management/Waste Water Management 2	5	Winter	SL, PL		
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STAP Urban Planning PL Sommer 5 STEB Road Maintenance and road service 5 Sommer SL, PL UMWT Environmental Engineering 5 Winter SL, PL WVER Hydraulic Modelling 5 Sommer PL WASW-2 Hydraulic Construction/Water Engineering 2 5 Sommer SL, PL PL PL NAM Precipitation Runoff Modeling 5 5 Winter WMDC Water Management in developing countries Summer Urban space - latitude PL FREI 5 Summer

PL = Examination (written) according to §7

SL = Course achievement according to § 8.4

CP = Credit Points

Module\* max. 15 CP out of the scientific research project according to § 11