

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN CIVIL AND CONSTRUCTION ENGINEERING

Specialisation of Structural Engineering

Unit of Technology/Lappeenranta, valid for the students enrolled in August 2007

STUDY MODULE		Academic year/scope, cr				*)
Code	Course	1.	2.	3.	4.	Lang.
CORE STUDIES OF POLYTECHNIC		11 CR				
KPE0042	Orientation Studies	2	-	-	-	FI
KSU0036	Finnish Communication at Work	3	-	-	-	FI
KRU0042	Swedish Communication at Work	3	-	-	-	FI
KEN0076	English Communication at Work	-	3	-	-	FI
BASIC STUDIES OF SPECIALISATION		43 CR				
000028	COMMUNICATION	7 cr				
KSU0041	Finnish Communication for Technology	-	4	-	-	FI
KEN0079	English for Technology	-	-	3	-	FI
000010	MATHEMATICS	15 cr				
KMA0071	Mathematics I	3	-	-	-	FI
KMA0067	Mathematics II	3	-	-	-	FI
KMA0087	Mathematics III	-	5	-	-	FI
KMA0086	Mathematics IV	-	4	-	-	FI
000012	PHYSICS	12 cr				
KFK0047	Physics I	4	-	-	-	FI
KFK0029	Physics III	-	3	-	-	FI
KFK0050	Building Physics	-	5	-	-	FI
000013	CHEMISTRY	3 cr				
KFK0027	Building Chemistry	-	3	-	-	FI
000014	INFORMATION TECHNOLOGY	6 cr				
KTI0029	Information Technology I	3	-	-	-	FI
KTE0044	CAD I (Construction Engineering)	3	-	-	-	FI
PROFESSIONAL SPECIALISATION STUDIES		117 CR				
209401	STRUCTURAL MECHANICS	15 cr				
KTE0608	Statics (Construction Engineering)	3	-	-	-	FI
KTE0121	Statically Determinated Structures	3	-	-	-	FI
KTE0064	Fundamentals of Strength of Materials	-	3	-	-	FI
KTE0158	Strength of Materials	-	3	-	-	FI
KTE1375	Statically Undetermined Structures	-	-	3	-	FI
209404	CONSTRUCTION ECONOMICS	12 cr				
KTE0049	Fundamentals of Construction Economy	3	-	-	-	FI
KTE1251	Fundamentals of Construction Cost Management	-	3	-	-	FI
KTE1078	Building Development	-	-	-	3	FI
KLI0975	Industrial Economics I	-	3	-	-	FI
209405	GEOTECHNICS AND FOUNDATION ENGINEERING	15 cr				
KTE1219	Geotechnology	-	4	-	-	FI
KTE1220	Foundation Engineering	-	-	5	-	FI
KTE0903	Environmental Geotechnology	-	-	3	-	FI
KTE0902	Foundations for Construction Engineering	-	-	-	3	FI

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				1.	2.	3.	4.	
209406		STRUCTURAL ENGINEERING	43 cr					
	KTE1246	Fundamentals of Construction Planning		-	3	-	-	FI
	KTE1546	Concrete Materials		5	-	-	-	FI
	KTE1545	Concrete Technology		3	-	-	-	FI
	KTE1544	Fundamentals of Concrete Structures		-	5	-	-	FI
	KTE1543	Cast in Place Concrete Structures		-	-	5	-	FI
	KTE1507	Fundamentals of Wood Structures		-	4	-	-	FI
	KTE1456	Wood Structures		-	-	4	-	FI
	KTE1511	Fundamentals of Structural Steelwork		-	-	4	-	FI
	KTE1542	Structural Steelwork		-	-	4	-	FI
	KTE0265	Masonry Structures		-	-	3	-	FI
	KTE0419	Composite Structures		-	-	3	-	FI
209408		BUILDING CONSTRUCTION	17 cr					
	KTE1222	Construction Engineering I		4	-	-	-	FI
	KTE1253	Construction Engineering II		-	4	-	-	FI
	KTE0139	Construction Engineering III		-	-	3	-	FI
	KTE0185	Renovation and Construction Work		-	-	-	3	FI
	KTE1160	Installations and Technical Equipment of Houses		-	-	3	-	FI
	KTE0144	Construction Planning I		-	-	-	3	FI
209409		BUILDING PRODUCTION ENGINEERING	12 cr					
	KTE0325	Production Technology for Construction Engineering		3	-	-	-	FI
	KTE1255	Construction Measurement		-	3	-	-	FI
	KTE0847	Building Site Technologies		-	3	-	-	FI
	KTE1505	Health in Work and Labour Law		-	-	3	-	FI
209415		COMMUNITY INFRASTRUCTURE ENGINEERING	3 cr					
	KTE1506	Fundamentals of Land-use Planning and Streets		-	-	-	3	FI
209442		ELECTIVE PROFESSIONAL STUDIES OF STRUCTURAL ENGINEERING	6 CR	-	-	-	6	FI
		Alternative courses (HOPS)						
		Project Work in Building Technology						
		Basics in Civil Engineering in Russia						
		Prefabricated Concrete Structures						
		3D-models						
		Special Course of Renovation and Construction						
		Building Management						
		Construction Planning II						
ELECTIVE STUDIES			15 cr	-	-	5	10	
PLACEMENT			30 cr	8	7	8	7	
BACHELOR'S THESIS			15 cr	-	-	-	15	
TOTAL			240 cr	56	72	59	53	

*) Language; FI = in Finnish, EN = in English