

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 2008

STUDY MODULE		Academic year/Scope, cr.				*) FI/EN
Code	Course	1.	2.	3.	4.	
BASIC STUDIES						54 cr
000078	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
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 R	3	-	-	-	FI
PROFESSIONAL STUDIES						126 cr
209401	STRUCTURAL MECHANICS					15 cr
KTE0608	Statics R	3	-	-	-	FI
KTE0121	Statically Determinated Structures	3	-	-	-	FI
KTE0064	Strength of Materials	-	3	-	-	FI
KTE0158	Strength of Materials	-	3	-	-	FI
KTE1375	Statically Indeterminate Structures I	-	-	3	-	FI
209404	CONSTRUCTION ECONOMICS					12 cr
KTE0049	Fundamentals of Construction Economy	3	-	-	-	FI
KTE1503	Basics of Cost Evaluation Methods	-	3	-	-	FI
KTE1078	Construction Management	-	-	-	3	FI
KLI0975	Industrial Economics I	-	3	-	-	FI
209405	GEOTECHNICS AND FOUNDATION ENGINEERING					15 cr
KTE1219	Geotechnics	-	4	-	-	FI
KTE1220	Foundation Engineering Structures	-	-	5	-	FI
KTE0903	Environmental Geotechnics	-	-	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 Concrete Structures		-	-	5	-	FI
	KTE1507 Fundamentals of Timber Structures		-	4	-	-	FI
	KTE1456 Timber Structures		-	-	4	-	FI
	KTE1511 Fundamentals of Structural Steelwork		-	-	4	-	FI
	KTE1542 Steel Structures		-	-	4	-	FI
	KTE0265 Masonry Structures		-	-	3	-	FI
	KTE0419 Composite Structures		-	-	3	-	FI
209408	BUILDING CONSTRUCTION	20 cr					
	KTE1222 Building Construction I		4	-	-	-	FI
	KTE1253 Building Construction III		-	4	-	-	FI
	KTE0139 Building Construction III		-	-	3	-	FI
	KTE0185 Renovation		-	-	-	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 of Building Construction		3	-	-	-	FI
	KTE1255 Construction Measurement		-	3	-	-	FI
	KTE0847 Site Technologies		-	3	-	-	FI
	KTE1505 Health in Work and Labour Law		-	-	3	-	FI
209451	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	

*) FI = in Finnish, EN = in English