

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

**DEGREE PROGRAMME IN CIVIL AND CONSTRUCTION ENGINEERING**

**Specialisation of Community Infrastructure Engineering**

Unit of Technology/Lappeenranta, valid for the students enrolled in January 2006

STUDY MODULE		Academic year/scope, cr				*)
Code	Course	1.	2.	3.	4.	FI/EN
<b>CORE STUDIES OF POLYTECHNIC</b>		<b>11 CR</b>				
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
<b>BASIC STUDIES OF SPECIALISATION</b>		<b>31 CR</b>				
000028	COMMUNICATION	7 cr				
KSU0041	Finnish Communication for Technology	1	3	-	-	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	-	1	3	-	FI
000012	PHYSICS	7 cr				
KFK0047	Physics I	3	1	-	-	FI
KFK0018	Physics II	-	3	-	-	FI
<b>PROFESSIONAL SPECIALISATION STUDIES</b>		<b>131 CR</b>				
000014	INFORMATION TECHNOLOGY	12 cr				
KTI0029	Information Technology I	3	-	-	-	FI
KTE0044	CAD I (Construction Engineering)	3	-	-	-	FI
KTE0568	CAD for Community Infrastructure Engineering	3	-	-	-	FI
KTE0392	IT Applications for Community Infrastructure Engineering	-	-	3	-	FI
209401	STRUCTURAL MECHANICS	11 cr				
KTE0608	Statics (Construction Engineering)	3	-	-	-	FI
KTE0121	Statically Determinated Structures	-	3	-	-	FI
KTE1216	Structural Mechanics I	-	5	-	-	FI
209404	CONSTRUCTION ECONOMICS	14 cr				
KTE0049	Fundamentals of Construction Economy	-	3	-	-	FI
KTE1217	Management and Labour Law	-	-	3	3	FI
KTE1218	Construction Economics	-	-	-	5	FI
209406	STRUCTURAL ENGINEERING	12 cr				
KTE0129	Concrete Materials	3	-	-	-	FI
KTE0130	Concrete Technology	3	-	-	-	FI
KTE0131	Concrete Structures I	-	3	-	-	FI
KTE0146	Structural Steelwork I	-	-	3	-	FI

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			1.	2.	3.	4.		
209405		GEOTECHNICS AND FOUNDATION ENGINEERING	15 cr					
	KTE1219	Geotechnology	-	4	-	-	FI	
	KTE1220	Foundation Engineering	-	-	4	1	FI	
	KTE0903	Environmental Geotechnology	-	-	-	3	FI	
	KTE0902	Foundations for Construction Engineering	-	-	-	3	FI	
209412		SURVEYING TECHNIQUES	8 cr					
	KTE1221	Surveying Techniques I	4	1	-	-	FI	
	KTE1145	GIS-Technology	-	-	3	-	FI	
209408		BUILDING CONSTRUCTION	4 cr					
	KTE1222	Building Construction I	2	2	-	-	FI	
209436		EARTH AND ROCK CONSTRUCTIONS	13 cr					
	KTE0533	Engineering Geology	3	-	-	-	FI	
	KTE1223	Earthwork Technology	-	4	-	-	FI	
	KTE0565	Blasting Technology I	3	-	-	-	FI	
	KTE0839	Rock Mechanics	-	3	-	-	FI	
209422		ROAD AND TRAFFIC ENGINEERING	18 cr					
	KTE1225	Road and Traffic Engineering I	5	-	-	-	FI	
	KTE1226	Road and Traffic Engineering II	-	4	-	-	FI	
	KTE1227	Road and Traffic Engineering III	-	-	5	-	FI	
	KTE1228	Special Course in Road and Traffic Engineering	-	-	2	2	FI	
209424		HYDROTECHNOLOGY	9 cr					
	KTE0155	Hydrology and Hydraulics	-	3	-	-	FI	
	KTE0840	Water Supply Engineering I	-	3	-	-	FI	
	KTE0842	Water Supply Engineering II	-	-	3	-	FI	
209437		COMMUNITY INFRASTRUCTURE ENGINEERING	10 cr					
	KTE1066	Land-use Planning I	-	-	3	-	FI	
	KTE0412	Land-use Planning II	-	-	3	-	FI	
	KTE1229	Project Work of Infrastructure Engineering	-	-	1	3	FI	
209211		ENVIRONMENTAL TECHNOLOGY	5 cr					
	KTE1433	Environmental Technology	-	-	2	3	FI	
209445		<b>ELECTIVE PROFESSIONAL STUDIES OF COMMUNITY INFRASTRUCTURE ENGINEERING</b>	<b>9 CR</b>	-	-	3	6	FI
		Alternative courses (HOPS)						
		Blasting Technology II						
		Basics of Civil Engineering in Russia						
		International Studies						
		Information Technology						
<b>ELECTIVE STUDIES</b>			<b>15 cr</b>	-	1	4	10	
<b>PRACTICAL TRAINING</b>			<b>30 cr</b>	7	8	8	7	
<b>BACHELOR'S THESIS</b>			<b>15 cr</b>	-	-	-	15	
<b>TOTAL</b>			<b>240 cr</b>	60	60	60	60	

\*) FI = in Finnish, EN = in English