

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

**DEGREE PROGRAMME IN CIVIL AND CONSTRUCTION ENGINEERING**

**Specialisation of Building Construction Engineering and Production**

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

STUDY MODULE		Academic year/scope, cr				*) Lang.
		1.	2.	3.	4.	
<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>39 CR</b>				
000028	COMMUNICATION	7 cr				
KSU0041	Finnish Communication for Technology	-	4	-	-	FI
KEN0079	English for Technology	-	-	-	3	FI
000010	MATHEMATICS	11 cr				
KMA0071	Mathematics I	3	-	-	-	FI
KMA0067	Mathematics II	3	-	-	-	FI
KMA0087	Mathematics III	-	5	-	-	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
<b>PROFESSIONAL SPECIALISATION STUDIES</b>		<b>124 CR</b>				
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	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	9 cr				
KTE1219	Geotechnology	-	4	-	-	FI
KTE1220	Foundation Engineering	-	-	5	-	FI

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Code	Course	1.	2.	3.	4.	Lang.
209406	<b>STRUCTURAL ENGINEERING</b>	27 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
KTE1507	Fundamentals of Wood Structures	-	4	-	-	FI
KTE1511	Fundamentals of Structural Steelwork	-	-	4	-	FI
KTE0265	Masonry Structures	-	-	3	-	FI
209408	<b>BUILDING CONSTRUCTION</b>	17 cr				
KTE1222	Building Construction I	4	-	-	-	FI
KTE1253	Building Construction II	-	4	-	-	FI
KTE0185	Renovation and Construction Work I	-	-	-	3	FI
KTE1160	Installations and Technical Equipment of Houses	-	-	3	-	FI
KTE0144	Construction Planning I	-	-	-	3	FI
209409	<b>BUILDING PRODUCTION ENGINEERING</b>	45 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
KTE1509	Planning of Production	-	-	-	3	FI
KTE1256	Project Learning in Enterprises	-	-	30	-	FI
209415	<b>COMMUNITY INFRASTRUCTURE ENGINEERING</b>	3 cr				
KTE1506	Fundamentals of Land-use Planning and Streets	-	-	-	3	FI
<b>209443</b>	<b>ELECTIVE PROFESSIONAL STUDIES OF BUILDING CONSTRUCTION ENGINEERING AND PRODUCTION</b>	<b>6 CR</b>		-	-	-
	Alternative courses (HOPS)					
	Basics in Civil Engineering in Russia					
	Construction Planning II					
	3D-models					
	Special Course of Renovation and Construction					
	Building Management					
<b>ELECTIVE STUDIES</b>		<b>15 cr</b>	4	-	-	11
<b>PLACEMENT</b>		<b>30 cr</b>	8	7	8	7
<b>BACHELOR'S THESIS</b>		<b>15 cr</b>	-	-	-	15
<b>TOTAL</b>		<b>240 cr</b>	60	70	56	54

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