

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 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>43 CR</b>				
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				
KTI0001	Information Technology I	3	-	-	-	FI
KTE0044	CAD I (Construction Engineering)	3	-	-	-	FI
<b>PROFESSIONAL SPECIALISATION STUDIES</b>		<b>117 CR</b>				
209401	STRUCTURAL MECHANICS	15 cr				
KTE0608	Statics (Construction Engineering)	3	-	-	-	FI
KTE0121	Statically Determinated Structures	3	-	-	-	FI
KTE0898	Strength of Materials I	-	3	-	-	FI
KTE1375	Statically Indeterminate Structures I	-	3	-	-	FI
KTE0305	Strength of Materials II	-	-	3	-	FI
209404	CONSTRUCTION ECONOMICS	12 cr				
KLI0848	Fundamentals of Construction Economy	2	3	2	-	FI
KTE1250	Management and Labour Law	-	-	3	2	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
	KTE0129	Concrete Materials		3	-	-	-	FI
	KTE0130	Concrete Technology		3	-	-	-	FI
	KTE0131	Concrete Structures I		-	3	-	-	FI
	KTE0904	Concrete Structures II		-	-	3	-	FI
	KTE0374	Concrete Structures III		-	-	3	-	FI
	KTE0133	Wood Structures I		-	3	-	-	FI
	KTE1377	Wood Structures II		-	-	5	-	FI
	KTE0146	Structural Steelwork I		-	-	3	-	FI
	KTE1378	Structural Steelwork II		-	-	-	5	FI
	KTE1379	Planning of Masonry Structures		-	-	3	-	FI
	KTE0419	Composite Structures		-	-	-	3	FI
	KTE0385	Prefabricated Concrete 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 I		-	-	-	3	FI
	KTE1160	Installations and Technical Equipment of Houses		-	-	3	-	FI
209409	BUILDING PRODUCTION ENGINEERING		6 cr					
	KTE0325	Production Technology for Construction Engineering		3	-	-	-	FI
	KTE1255	Construction Measurement		-	3	-	-	FI
209416	STRUCTURAL DESIGN		6 cr					
	KTE0144	Construction Planning I		-	-	3	-	FI
	KTE0145	Construction Planning II		-	-	-	3	FI
209415	COMMUNITY INFRASTRUCTURE ENGINEERING		3 cr					
	KTE1430	Community Infrastructure Engineering		-	3	-	-	FI
<b>209442</b>	<b>ELECTIVE PROFESSIONAL STUDIES OF STRUCTURAL ENGINEERING</b>		<b>9 CR</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>FI</b>
	Alternative courses (HOPS)							
	Structural Design Project Work							
	Basics of Civil Engineering in Russia							
	Production Technology							
	3D-Models							
	Special Course of Renovation and Construction							
	Building Management							
	International Studies							
<b>ELECTIVE STUDIES</b>			<b>15 cr</b>	<b>4</b>	<b>3</b>	<b>5</b>	<b>3</b>	
<b>PRACTICAL TRAINING</b>			<b>30 cr</b>	<b>8</b>	<b>7</b>	<b>8</b>	<b>7</b>	
<b>BACHELOR'S THESIS</b>			<b>15 cr</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15</b>	
<b>TOTAL</b>			<b>240 cr</b>	<b>60</b>	<b>69</b>	<b>61</b>	<b>50</b>	

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