

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN CIVIL AND CONSTRUCTION ENGINEERING

Specialisation of Infrastructural Engineering and Production

Unit of Technology/Lappeenranta, valid for the students enrolled in 2008

STUDY MODULE		Academic year/Scope, cr.				*) FI/EN
		1.	2.	3.	4.	
BASIC STUDIES						40 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	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	-	4	-	-	FI
000012	PHYSICS					7 cr
	KFK0047 Physics I	4	-	-	-	FI
	KFK0018 Physics II	-	3	-	-	FI
PROFESSIONAL STUDIES						140 cr
000014	INFORMATION TECHNOLOGY					6 cr
	KTI0029 Information Technology I	3	-	-	-	FI
	KTE0044 CAD I R	3	-	-	-	FI
209401	STRUCTURAL MECHANICS					11 cr
	KTE0608 Statics R	3	-	-	-	FI
	KTE0121 Statically Determinated Structures	3	-	-	-	FI
	KTE1216 Structural Mechanics I	-	5	-	-	FI
209450	PROJECT MANAGEMENT					15 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
	KTE1509 Planning of production	-	-	-	3	FI
209406	STRUCTURAL ENGINEERING					18 cr
	KTE1546 Concrete Materials	5	-	-	-	FI
	KTE1246 Fundamentals of Construction Planning	-	3	-	-	FI
	KTE0131 Concrete Structures I	-	3	-	-	FI
	KTE1511 Fundamentals of Structural Steelwork	-	-	4	-	FI
	KTE1118 Basics of Building Construction	3	-	-	-	FI

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209405	GEOTECHNICS AND FOUNDATION ENGINEERING	21 cr					
	KTE1219 Geotechnics		4	-	-	-	FI
	KTE1220 Foundation Engineering Structures		-	-	5	-	FI
	KTE0903 Environmental Geotechnics		-	-	3	-	FI
	KTE1486 Foundation Engineering of Infrastructure		-	-	-	3	FI
	KTE0839 Rock Mechanics		-	-	-	3	FI
	KTE1512 Geotechnical Investigations		-	-	3	-	FI
209449	INFRASTRUCTURE NETWORK ENGINEERING	30 cr					
	KTE1506 Fundamentals of Land-use Planning and Streets		3	-	-	-	FI
	KTE1513 Traffic and Traffic System Planning		-	3	-	-	FI
	KTE1514 Road Engineering		-	5	-	-	FI
	KTE1515 Maintenance of Infrastructure and Surface Technology		-	-	3	-	FI
	KTE1212 Bridge Construction		-	-	-	3	FI
	KTE1516 Railway Engineering		-	-	-	3	FI
	KTE1517 Infrastructure Cad		-	3	-	-	FI
	KTE1518 Road Intersection Planning		-	-	3	-	FI
	KTE1519 Project Work in Infrastructure Engineering		-	-	-	4	FI
209448	WATER AND WASTE WATER ENGINEERING	14 cr					
	KTE1520 Fundamentals of Water and Environmental Engineering		-	3	-	-	FI
	KTE0155 Hydrology and Hydraulics		-	-	3	-	FI
	KTE1521 Water and Sewerage Supply Networks		-	-	5	-	FI
	KTE1522 Treatment and Refining of Water		-	-	-	3	FI
209409	BUILDING PRODUCTION ENGINEERING	19 cr					
	KTE1523 Earthwork Technology		3	-	-	-	FI
	KTE0565 Blasting Technology I		-	3	-	-	FI
	KTE1524 Production of Rock Structures		-	-	4	-	FI
	KTE1505 Health in Work and Labour Law		-	-	3	-	FI
	KTE1525 Surveying Technology		3	-	-	-	FI
	KTE1526 Surveying Technology and Automation		-	3	-	-	FI
209461	ELECTIVE PROFESSIONAL STUDIES OF INFRASTRUCTURAL ENGINEERING AND PRODUCTION	6 cr	-	-	3	3	FI
	Alternative courses (HOPS)						
	Foundations of Buildings						
	Land-use Planning						
	Mining Technology						
	Natural Stone Production						
ELECTIVE STUDIES		15 cr	2	1	4	8	
PLACEMENT		30 cr	6	7	8	9	
BACHELOR'S THESIS		15 cr	-	-	-	15	
TOTAL		240 cr	60	60	60	60	

*) FI = in Finnish, EN = in English