

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN ELECTRICAL ENGINEERING, Specialisation of Electric Power Engineering

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

STUDY MODULE		Academic year/scope, cr				*)
Code	Course	1.	2.	3.	4.	FI/EN
CORE STUDIES OF POLYTECHNIC		11 CR				
KSU0036	Finnish Communication at Work	3	-	-	-	FI
KRU0042	Swedish Communication at Work	3	-	-	-	FI
KEN0076	English Communication at Work	3	-	-	-	FI
KPE0042	Orientation Studies	2	-	-	-	FI
BASIC STUDIES OF STUDY PROGRAM		68 CR				
000001	FINNISH COMMUNICATION SKILLS	4 cr				
KSU0041	Finnish Communication for Technology	-	4	-	-	FI
000002	SWEDISH COMMUNICATION SKILLS	3 cr				
KRU0046	Swedish for Technology	-	3	-	-	FI
000005	ENGLISH COMMUNICATION SKILLS	8 cr				
KEN0079	English for Technology	-	3	-	-	FI
KEN0083	English for Electrical Engineering	-	-	5	-	FI
000010	MATHEMATICS	11 cr				
KMA0069	Introduction to Mathematics (elective studies)	3	-	-	-	FI
KMA0071	Mathematics I	3	-	-	-	FI
KMA0067	Mathematics II	3	-	-	-	FI
KMA0087	Mathematics III	-	5	-	-	FI
000012	PHYSICS	10 cr				
KFK0047	Physics I	4	-	-	-	FI
KFK0029	Physics III	-	3	-	-	FI
KFK0001	Physics, Lab Course	-	3	-	-	FI
000014	INFORMATION TECHNOLOGY	13 cr				
KTI0001	Information Technology I	3	-	-	-	FI
KTE0577	Application Software for Electrical Engineering	3	-	-	-	FI
KTI0063	Fundamentals of Programming	-	4	-	-	FI
KTE0437	Data Transfer Technology	-	-	-	3	FI
203101	INDUSTRIAL ECONOMY AND MANAGEMENT SKILLS	9 cr				
KTE0327	Industrial Economy	-	-	3	-	FI
KLI0371	Management	-	-	3	-	FI
KTE0287	Project Technology	-	-	3	-	FI
203104	MECHANICAL ENGINEERING	10 cr				
KTE0863	Mechanical Engineering	-	3	-	-	FI
KTE0864	Maintenance Technology	-	-	3	-	FI
KTE1305	Energy Technology	-	-	-	4	FI

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			1.	2.	3.	4.	
PROFESSIONAL SPECIALISATION STUDIES			101 CR				
203102		THEORY OF ELECTRICAL ENGINEERING	20 cr				
	KTE0581	Theoretical Electrical Engineering I	6	-	-	-	FI
	KTE1306	Theoretical Electrical Engineering II A	5	-	-	-	FI
	KTE0920	Theoretical Electrical Engineering II B	-	3	-	-	FI
	KTE0197	Theoretical Electrical Engineering III	-	3	-	-	FI
	KTE0198	Theoretical Electrical Engineering IV	-	-	3	-	FI
203103		ELECTRONICS	9 cr				
	KTE0199	Analogue Electronics I	3	-	-	-	FI
	KTE1139	Analogue Electronics II	-	3	-	-	FI
	KTE0788	Analog Electronics Laboratory Course	-	3	-	-	FI
203111		AUTOMATION	15 cr				
	KTE1364	Digital Technique I	3	-	-	-	FI
	KTE1365	Digital Technique II	-	3	-	-	FI
	KTE1366	Digital Technique Laboratory Course	-	3	-	-	FI
	KTE0273	Programable Logic	-	3	-	-	FI
	KTE1307	Industrial Field Buses	-	-	3	-	FI
203112		ELECTRICAL ENGINEERING PRACTICALS	13 cr				
	KTE0204	Electrical Engineering Practicals I	3	-	-	-	FI
	KTE0919	Electrical Engineering Practicals III	-	3	-	-	FI
	KTE1308	Electrical Engineering Practicals III	-	-	4	3	FI
203107		ELECTRICAL POWER ENGINEERING	22 cr				
	KTE0205	Electric Machines I	-	3	-	-	FI
	KTE0206	Electric Machines II	-	-	3	-	FI
	KTE1309	Power Electronics	-	-	5	-	FI
	KTE1310	Electric Motor Drives	-	-	5	-	FI
	KTE1311	Electric Motor Drives, Advanced	-	-	-	5	FI
	KTE0209	Basics of Control Technology	-	-	6	-	FI
203106		ELECTRICAL DISTRIBUTION TECHNOLOGY	19 cr				
	KTE0210	Electrical Installations I	3	-	-	-	FI
	KTE0211	Electrical Installations II	-	3	-	-	FI
	KTE1312	Electric Power Systems	-	-	5	-	FI
	KTE1313	Electric Power Systems, Advanced	-	-	-	5	FI
	KTE1314	Electrical Safety Regulations	-	-	-	3	FI
		*alternative courses					
203108		ELECTRICAL PLANNING	3 cr				
	KTE0216	Desing Software	-	-	3	-	FI
ELECTIVE STUDIES			15 cr				
PRACTICAL TRAINING			30 cr				
BACHELOR'S THESIS			15 cr				
TOTAL			240 cr				

*) FI = in Finnish, EN = in English