

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN ELECTRICAL ENGINEERING,
Specialisation of Practice-oriented Electric Power Engineering
 Unit of Technology/Imatra, valid for the students enrolled in 2006

STUDY MODULE		Academic year/scope, cr				*) FI/EN	
		1.	2.	3.	4.		
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		61 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 I		-	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
207245	INDUSTRIAL ECONOMY	3 cr					
KTE0327	Industrial Economy		-	-	3	-	FI
203104	MECHANICAL ENGINEERING	3 cr					
KTE0863	Mechanical Engineering		-	3	-	-	FI
KTE0864	Maintenance (elective studies)		-	-	3	-	FI

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN ELECTRICAL ENGINEERING,
Specialisation of Practice-oriented 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
PROFESSIONAL SPECIALISATION STUDIES		114 CR				
203102	THEORY OF ELECTRICAL ENGINEERING	17 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
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	12 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 (Elective studies)	-	-	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	16 cr				
	KTE0205 Electric Machines I	-	3	-	-	FI
	KTE0206 Electric Machines II	-	-	3	-	FI
	KTE1309 Power Electronics	-	-	5	-	FI
	KTE1310 Electric Motor Drives	-	-	5	-	FI
203106	ELECTRICAL DISTRIBUTION TECHNOLOGY	14 cr				
	KTE0210 Electrical Installations I	3	-	-	-	FI
	KTE0211 Electrical Installations II	-	3	-	-	FI
	KTE1312 Electric Power Systems	-	-	5	-	FI
	KTE1314 Electrical Safety Regulations	-	-	-	3	FI
203108	ELECTRICAL PLANNING	3 cr				
	KTE0216 Desing Software	-	-	3	-	FI
000076	PROJECT LEARNING ENTERPRISES	30 op				
	KLI0371 Management	-	-	3	-	FI
	KTE0287 Project Technology	-	-	3	-	FI
	KTE1442 Project Learning in Enterprises	-	-	12	12	FI
ELECTIVE STUDIES		15 cr				
PRACTICAL TRAINING		30 cr				
Practical Training 30 cr						
BACHELOR'S THESIS		15 cr				
TOTAL		240 cr				

*) FI = in Finnish, EN = in English