

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 2007

STUDY MODULE		Academic year/scope, cr				*) Lang.		
		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		55 CR						
000001	FINNISH COMMUNICATION SKILLS KSU0041 Finnish Communication for Technology	4 cr	-	4	-	-	FI	
000002	SWEDISH COMMUNICATION SKILLS KRU0046 Swedish for Technology	3 cr	-	3	-	-	FI	
000005	ENGLISH COMMUNICATION SKILLS KEN0079 English for Technology KEN0083 English for Electrical Engineering	8 cr	-	3	-	5	-	FI
000010	MATHEMATICS KMA0069 Introduction to Mathematics (Elective studies) KMA0071 Mathematics I KMA0067 Mathematics II KMA0087 Mathematics III	11 cr	3	-	-	-	-	FI
000012	PHYSICS KFK0047 Physics I KFK0029 Physics III KFK0001 Physics, Lab Course I	10 cr	4	-	-	-	-	FI
000014	INFORMATION TECHNOLOGY KTI0001 Information Technology I KTE1479 AutoCAD Basics KTI0063 Fundamentals of Programming KTE0437 Data Transfer Technology	13 cr	3	-	-	-	-	FI
207245	INDUSTRIAL ECONOMY KTE1407 Industrial Economy	3 cr	-	-	3	-	-	FI
203104	MECHANICAL ENGINEERING KTE0863 Mechanical Engineering KTE0864 Maintenance (elective studies)	3 cr	-	3	-	3	-	FI

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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 Technigue I	3	-	-	-	FI
	KTE1365 Digital Technigue II	-	3	-	-	FI
	KTE1366 Digital Technigue Laboratory Course	-	3	-	-	FI
	KTE0273 Programable Logic	-	3	-	-	FI
	KTE1307 Industrial Field Buses (Elective studies)	-	-	3	-	FI
203112	ELECTRICAL ENGINEERING PRACTICALS	14 cr				
	KTE1477 Electrical Engineering Practicals I	4	-	-	-	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				
PLACEMENT		30 cr				
BACHELOR'S THESIS		15 cr				
TOTAL		240 cr				

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