

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN MECHANICAL AND MANUFACTURING ENGINEERING

Specialisation of Manufacturing Engineering and Maintenance

Unit of Technology/Lappeenranta, 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		118 CR				
000028	COMMUNICATION	7 cr				
KSU0041	Finnish Communication for Technology	-	4	-	-	FI
KEN0079	English for Technology	-	-	3	-	FI
000010	MATHEMATICS	9 cr				
KMA0069	Introduction to Mathematics	3	-	-	-	FI
KMA0071	Mathematics I	3	-	-	-	FI
KMA0067	Mathematics II	3	-	-	-	FI
KMA0088	Mathematics T	-	3	-	-	FI
000012	PHYSICS	9 cr				
KFK0018	Physics II	3	-	-	-	FI
KFK0029	Physics III	-	3	-	-	FI
KFK0001	Physics, Lab Course	-	3	-	-	FI
000014	INFORMATION TECHNOLOGY	3 cr				
KTI0001	Information Technology I	3	-	-	-	FI
207245	INDUSTRIAL MANAGEMENT	5 cr				
KTE1276	Business Finance and Project Management	-	-	-	5	FI
207202	MECHANICS	9 cr				
KTE0921	Basics of Mechanics	3	-	-	-	FI
KTE0001	Statics I	3	-	-	-	FI
KTE0002	Statics II	-	3	-	-	FI
207203	TECHNICAL DRAWINGS	9 cr				
KTE0513	Mechanical Drawings and CAD	6	-	-	-	FI
KTE1277	Descriptive Geometry	-	3	-	-	FI
207223	MATERIALS AND STRENGTH OF MATERIALS	14 cr				
KTE0431	Study of Materials I	3	-	-	-	FI
KTE0008	Study of Materials II	-	3	-	-	FI
KTE0673	Strength of Materials I	3	-	-	-	FI
KTE1278	Strength of Materials II	-	5	-	-	FI

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Code	Course		1.	2.	3.	4.	FI/EN
207207	MACHINE AUTOMATION	13 cr					
KTE0699	Pneumatics and Logics		3	-	-	-	FI
KTE0675	Digital Technology and Electronics		-	3	-	-	FI
KTE1337	Machine Automation		-	-	4	-	FI
KTE0464	Hydraulics		-	-	3	-	FI
209202	MECHANICAL ENGINEERING	15 cr					
KTE1279	Machine Elements		-	-	7	-	FI
KTE1068	A.C. Machinery		-	-	3	-	FI
KTE1280	Fluid and Thermo Machinery		-	-	-	5	FI
207224	ENGINEERING AND MANUFACTURING	25 cr					
KTE0514	Maintenance, Basics		-	3	-	-	FI
KTE0021	Manufacturing, Basics		3	-	-	-	FI
KTE0679	Manufacturing, Laboratory Workshops		-	3	-	-	FI
KTE1282	Welding and Sheet Metal Works		5	-	-	-	FI
KTE0024	Machining		-	3	-	-	FI
KTE1283	Workshop Measurements		3	-	-	-	FI
KTE1284	Production Planning		-	-	-	5	FI
PROFESSIONAL SPECIALISATION STUDIES		51 cr					
207232	SPECIALISATION OF MANUFACTURING ENGINEERING AND MAINTENANCE	51 cr					
KTE0525	Machine Elements II		-	-	-	3	FI
KTE1288	Mechanical Vibrations		-	-	3	-	FI
KTE0479	Flexible Manufacturing Systems		-	-	3	-	FI
KTE1164	Machine Design I		-	-	-	3	FI
KTE0696	Maintenance Technology		-	-	3	-	FI
KTE1168	Automation, Laboratory Workshops		-	-	-	3	FI
KTE0690	Materials Selection		-	-	3	-	FI
KTE1256	Project Learning in Enterprises		-	-	15	15	FI
ELECTIVE STUDIES		15 cr	-	4	5	6	
PRACTICAL TRAINING		30 cr					
BACHELOR'S THESIS		15 cr	-	-	-	15	
TOTAL		240 cr					

*) FI = in Finnish, EN = in English