

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 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		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	6 cr				
KTI0001	Information Technology I	3	-	-	-	FI
KTE1275	Applications of Mechanical Engineering	-	3	-	-	FI
207245	INDUSTRIAL MANAGEMENT	8 cr				
KLI0975	Industrial Management I	-	-	3	-	FI
KTE1284	Production Planning	-	-	-	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
KTE0671	Design Programs	-	3	-	-	FI

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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
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	20 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
PROFESSIONAL SPECIALISATION STUDIES		47 CR					
207232	SPECIALISATION OF MANUFACTURING ENGINEERING AND MAINTENANCE	47 cr					
	KTE1288 Mechanical Vibrations		-	-	3	-	FI
	KTE0696 Maintenance Technology		-	-	3	-	FI
	KTE0690 Materials Selection		-	-	3	-	FI
	KTE0525 Machine Elements II		-	-	-	3	FI
	KTE1533 Machine Design I		-	-	-	5	FI
	KTE1256 Project Learning in Enterprises		-	-	15	15	FI
ELECTIVE STUDIES		15 cr	-	4	5	6	
PLACEMENT		30 cr	-	-	-	-	
BACHELOR'S THESIS		15 cr	-	-	-	15	
TOTAL		240 cr					

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