

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN MECHANICAL AND MANUFACTURING ENGINEERING

Specialisation of Mechanical and Production Engineering

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		139 CR				
000028	COMMUNICATION	7 cr				
KSU0041	Finnish Communication for Technology	-	4	-	-	FI
KEN0079	English for Technology	-	-	3	-	FI
000010	MATHEMATICS	11 cr				
KMA0069	Introduction to Mathematics	3	-	-	-	FI
KMA0071	Mathematics I	3	-	-	-	FI
KMA0067	Mathematics II	3	-	-	-	FI
KMA0087	Mathematics III	-	5	-	-	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	5 cr				
KTE1276	Business Finance and Project Management	-	-	-	5	FI
207202	MECHANICS	12 cr				
KTE0921	Basics of Mechanics	3	-	-	-	FI
KTE0001	Statics I	3	-	-	-	FI
KTE0002	Statics II	-	3	-	-	FI
KTE0003	Dynamics	-	-	3	-	FI
207203	TECHNICAL DRAWINGS	12 cr				
KTE0513	Mechanical Drawings and CAD	6	-	-	-	FI
KTE1277	Descriptive Geometry	-	3	-	-	FI
KTE0671	Design Software	-	3	-	-	FI

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			1.	2.	3.	4.	
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		18 cr				
	KTE1279	Machine Elements	-	-	7	-	FI
	KTE0677	Mechanisms of Machinery	-	-	3	-	FI
	KTE1068	A.C. Machinery	-	-	3	-	FI
	KTE1280	Fluid and Thermo Machinery	-	-	-	5	FI
207224	ENGINEERING AND MANUFACTURING		32 cr				
	KTE1281	Product Development and 3D-CAD	-	-	4	-	FI
	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
	KTE1166	Industrial Piping	-	-	-	3	FI
	KTE1284	Production Planning	-	-	-	5	FI
PROFESSIONAL SPECIALISATION STUDIES			30 CR				
207244	SPECIALISATION OF MECHANICAL AND PRODUCTION TECHNOLOGY		30 cr				
	KTE1164	Machine Design I	-	-	-	3	FI
	KTE1165	Machine Design II	-	-	-	3	FI
	KTE1285	Steel Structures	-	-	-	5	FI
	KTE0525	Machine Elements II	-	-	-	3	FI
	KTE0689	Construction Technology, Special Works	-	-	-	3	FI
	KTE1286	Finite Element Method	-	-	5	-	FI
	KTE1287	Vibration Mechanics	-	-	5	-	FI
	KTE0690	Materials Selection	-	-	3	-	FI
ELECTIVE STUDIES			15 cr	-	4	5	6
PRACTICAL TRAINING			30 cr	6	6	6	12
BACHELOR'S THESIS			15 cr	-	-	-	15
TOTAL			240 cr				

*) FI = in Finnish, EN = in English