DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN MECHANICAL ENGINEERING AND PRODUCTION TECHNOLOGY
Unit of Technology/Lappeenranta, valid for the Students enrolled in 2006

STUDY MODULE Code		Lessons Credits / Semester		35 cr	32 cr	31 cr	31 cr	27 cr	3 cr	0 cr	6 cr
		Study Modules / Semester		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
000073	MATHEMATICS AND PHYSICS		21 cr								
	KMA0090	Mathematics - A		6	-	-	-	-	-	-	-
	KMA0091	Mathematics - B		-	4	-	-	-	-	-	-
	KMA0092	Mathematics - C		-	-	3	-	-	-	-	-
	KMA0093	Mathematics - D		-	-	-	3	-	-	-	-
	KFK0049	Physics - A		5	-	-	-	-	-	-	-
000074	COMMUNICATION AND LANGUAGES		15 cr								
	KSU0039	Finnish Culture and Language I [1)]		3	-	-	-	-	-	-	-
	KRU0049	Swedish Communication at Work [2)]		3	-	-	-	-	-	-	-
	KSU0040	Finnish Culture and Language II [1)]		-	3	-	-	-	-	-	-
	KEN0073	English for Technical Documentation		-	-	3	-	-	-	-	-
	KTE1335	Intercultural Communication		-	-	-	-	3	-	-	-
	KEN0087	English for Mechanical Engineering		-	-	-	-	-	3	-	-
		1) Foreign Students 2) Finnish Students									
207238	MECHANICAL ENGINEERING		36 cr								
	KTE0942	Design and Planning Software		3	-	-	-	-	-	-	-
	KTE0952	Materials		3	-	-	-	-	-	-	-
	KTE1383	Mechanical Drawing and CAD		3	-	-	-	-	-	-	-
	KTE0956	Manufacturing, Basics		3	-	-	-	-	-	-	-
	KTE1380	Statics		-	6	-	-	-	-	-	-
	KTE1051	3D - Modelling		-	-	3	-	-	-	-	-
	KTE1344	Strength of Materials		-	-	-	6	-	-	-	-
	KTE0932	Dynamics		-	-	-	3	-	-	-	-
	KTE1382	Machine Elements		-	-	-	3	-	-	-	-
	KTE1345	Transmission Elements		-	-	-	-	3	-	-	-
207250	MACHINE AUTOMATION		33 cr								
	KTE0967	Sensors		3	-	-	-	-	-	-	-
	KTE1336	Pneumatics		-	3	-	-	-	-	-	-
	KTE1340	Electronics and Digital Technology		-	3	-	-	-	-	-	-
	KTE1384	Programmable Logic Controllers		-	3	-	-	-	-	-	-
	KTE0965	Robotics		-	-	3	-	-	-	-	-
	KTE1369	Hydraulics		-	-	3	-	-	-	-	-
	KTE1341	Device- and Control Technology		-	-	-	3	-	-	-	-
	KTE1342	Mobile Hydraulics		-	-	-	-	3	-	-	-
	KTE0961	Machine Vision Systems		-	-	-	-	3	-	-	-
	KTE0458	Fuzzy Logic		-	-	-	-	3	-	-	-
	KTE1343	Automation Project		-	-	-	-	-	-	-	3

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207247	MEASUREMENT AND DATA LOGGING		19 cr								
	KTE1346	Measurement, Basics		-	-	3	-	-	-	-	-
	KTE1347	Quality and Measuring Analysis		-	-	-	4	-	-	-	-
	KTE1348	3D - Measuring Technology		-	-	-	3	-	-	-	-
	KTE1349	Experimental Measuring Technique		-	-	-	-	3	-	-	-
	KTE1350	Laboratory Measurements		-	-	-	-	3	-	-	-
	KTE1351	Measuring and Data Logging Projects		-	-	-	-	-	-	-	3
207248	IT, DATA TRASFER AND PROGRAMMING		26 cr								
	KTE1352	IT, Basics		3	-	-	-	-	-	-	-
	KTE1353	Programming Basics		-	4	-	-	-	-	-	-
	KTE0944	Data Transfer Technology		-	3	-	-	-	-	-	-
	KTE1354	3D Virtual Models and Animations		-	-	3	-	-	-	-	-
	KTE1355	Wireless Communication		-	-	3	-	-	-	-	-
	KTE1356	Database Systems		-	-	4	-	-	-	-	-
	KTE1385	WWW - Programming		-	-	-	3	-	-	-	-
	KTE1357	OOP and Java Programming		-	-	-	-	3	-	-	-
207249	ENTREPRENEUERSHIP AND PROJECT WORK		12 cr								
	KTE1358	Project Work Basics		-	3	-	-	-	-	-	-
	KTE1359	Accounting Basics		-	-	3	-	-	-	-	-
	KTE0934	Leadership and Management		-	-	-	3	-	-	-	-
	KTE1360	International Business Marketing		-	-	-	-	3	-	-	-
ELECTIVE STUDY MODULES			**15 cr**								
PRACTICAL TRAINING			**30 cr**	-	15	-	15	-	-	-	-
PROJECTS A-E			**18 cr**	3	3	3	3	3	-	-	3
BACHELOR´S THESIS			**15 cr**	-	-	-	-	-	-	15	-
TOTAL			**240 cr**								