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 2008

STUDY MODULE											
Code	Lessons Credits / Semester		34 cr	31 cr	37 cr	33 cr	27 cr	0 cr	0 cr	12 cr
	Study Modules / Semester		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
BASIC STUDIES										
000073	MATHEMATICS AND PHYSICS	17 cr								
KMA0098	Mathematics - A		3	-	-	-	-	-	-	-
KMA0099	Mathematics - B		-	3	-	-	-	-	-	-
KMA0092	Mathematics - C		-	-	3	-	-	-	-	-
KMA0093	Mathematics - D		-	-	-	3	-	-	-	-
KFK0049	Physics - A		5	-	-	-	-	-	-	-
000074	COMMUNICATION AND LANGUAGES	18 cr								
KSU0039	Finnish Culture and Language 1 [1)]		3	-	-	-	-	-	-	-
KRU0049	Swedish Communication at Work [2)]		3	-	-	-	-	-	-	-
KSU0040	Finnish Culture and Language 2 [1)]		-	3	-	-	-	-	-	-
KSU0042	Finnish Culture and Language 3 [1)]		-	-	3	-	-	-	-	-
KVE0080	Russian Culture and Language [2)]		-	-	-	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	57 cr								
KTE0952	Materials		3	-	-	-	-	-	-	-
KTE0469	Mechanical Drawing and CAD		3	-	-	-	-	-	-	-
KTE0956	Manufacturing, Basics		3	-	-	-	-	-	-	-
KTE0930	Basics of Mechanics		3	-	-	-	-	-	-	-
KTE0938	Statics I		-	3	-	-	-	-	-	-
KTE0957	Machining		-	3	-	-	-	-	-	-
KTE0939	Statics II		-	-	3	-	-	-	-	-
KTE0958	Manufacturing, Laboratory Workshops		-	-	3	-	-	-	-	-
KTE1537	Welding		-	-	3	-	-	-	-	-
KTE1051	3D - Modelling		-	-	3	-	-	-	-	-
KTE0968	Strength of Materials I		-	-	3	-	-	-	-	-
KTE1538	Materials Selection		-	-	-	3	-	-	-	-
KTE0942	Design and Planning Softwares		-	-	-	3	-	-	-	-
KTE1539	Strength of Materials II		-	-	-	3	-	-	-	-
KTE0932	Dynamics		-	-	-	3	-	-	-	-
KTE1382	Machine Elements		-	-	-	3	-	-	-	-
KTE1345	Transmission Elements		-	-	-	-	3	-	-	-
KTE1540	Machine Design		-	-	-	-	-	-	-	3
KTE1648	Machine Design Project		-	-	-	-	-	-	-	3

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STUDY MODULE Code	Lessons Credits / Semester Study Modules / Semester		34 cr **1**	31 cr **2**	37 cr **3**	33 cr **4**	27 cr **5**	0 cr **6**	0 cr **7**	12 cr **8**
PROFESSIONAL STUDIES										
207250	MACHINE AUTOMATION	33 cr								
KTE0967	Sensors		3	-	-	-	-	-	-	-
KTE1336	Pneumatics		-	3	-	-	-	-	-	-
KTE1392	Electronics and Digital Technology		-	3	-	-	-	-	-	-
KTE1384	Programmable Logic Controllers		-	3	-	-	-	-	-	-
KTE0965	Robotics		-	-	3	-	-	-	-	-
KTE1369	Hydraulics		-	-	3	-	-	-	-	-
KTE1341	Device and Control Technology		-	-	-	3	-	-	-	-
KTE1536	Automation Laboratories		-	-	-	3	-	-	-	-
KTE1342	Mobile Hydraulics		-	-	-	-	3	-	-	-
KTE0961	Machine Vision Systems		-	-	-	-	3	-	-	-
KTE0458	Fuzzy Logic		-	-	-	-	3	-	-	-
207247	MEASUREMENT AND DATA LOGGING	13 cr								
KTE1649	Measurements, Basics		-	-	4	-	-	-	-	-
KTE1349	Experimental Measuring Technique		-	-	-	-	3	-	-	-
KTE1350	Laboratory Measurements		-	-	-	-	3	-	-	-
KTE1348	3D - Measuring Technology		-	-	-	-	-	-	-	3
207248	IT, DATA TRANSFER AND PROGRAMMING	19 cr								
KTE1352	IT, Basics		3	-	-	-	-	-	-	-
KTE1353	Programming Basics		-	4	-	-	-	-	-	-
KTE0944	Data Transfer Technology		-	3	-	-	-	-	-	-
KTE1354	3D Virtual Models and Animations		-	-	3	-	-	-	-	-
KTE1535	Database Systems		-	-	3	-	-	-	-	-
KTE1357	OOP and Java Programming		-	-	-	-	3	-	-	-
207249	ENTREPRENEUERSHIP AND PROJECT WORK	23 cr								
KTE1650	Orientation Studies		2	-	-	-	-	-	-	-
KTE1358	Project Work Basics		-	3	-	-	-	-	-	-
KTE0934	Leadership and Management		-	-	-	3	-	-	-	-
KTE1360	International Business Marketing		-	-	-	-	3	-	-	-
KTE1463	Project B		-	3	-	-	-	-	-	-
KTE1372	Project C		-	-	3	-	-	-	-	-
KTE1373	Project D		-	-	-	3	-	-	-	-
KTE1492	Project E		-	-	-	-	3	-	-	-
ELECTIVE STUDIES		**15 cr**	-	-	-	-	-	-	-	-
PLACEMENT		**30 cr**	-	15	-	15	-	-	-	-
BACHELOR´S THESIS		**15 cr**	-	-	-	-	-	-	15	-
TOTAL		**240 cr**								