

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN PAPER TECHNOLOGY, Specialisation of Process and Paper Engineering

Unit of Technology/Imatra, 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		124 CR				
000010	MATHEMATICS	14 cr				
KMA0071	Mathematics I	3	-	-	-	FI
KMA0069	Introduction to Mathematics	(3)	-	-	-	FI
KMA0067	Mathematics II	3	-	-	-	FI
KMA0087	Mathematics III	-	5	-	-	FI
KMA0010	Mathematics VII	-	-	-	3	FI
KMA0094	Numerical Mathematics	-	-	-	(3)	FI
000012	PHYSICS	13 cr				
KFK0047	Physics I	4	-	-	-	FI
KFK0018	Physics II	-	3	-	-	FI
KFK0001	Physics, Lab Course	-	3	-	-	FI
KFK0032	Physics IV	-	-	3	-	FI
000014	INFORMATION TECHNOLOGY	10 cr				
KTI0001	Information Technology I	3	-	-	-	FI
KTI0067	Information Technology II	4	-	-	-	FI
KVV0187	Plant Design Systems	-	3	-	-	FI
000001	FINNISH COMMUNICATION SKILLS	4 cr				
KSU0041	Finnish Communication for Technology	-	4	-	-	FI
000002	SWEDISH COMMUNICATION SKILLS	3 cr				
KRU0046	Swedish for Technology	-	3	-	-	FI
000005	ENGLISH COMMUNICATION SKILLS	8 cr				
KEN0079	Technical English	3	-	-	-	EN
KEN0082	English for Paper Technology	-	5	-	-	EN
209201	INDUSTRIAL ECONOMY AND MANAGEMENT SKILLS	9 cr				
KTE0327	Industrial Economy	-	-	3	-	EN/FI
KLI0371	Management	-	-	-	3	EN/FI
KLI0134	Quality Management	-	-	-	3	EN/FI

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			1.	2.	3.	4.	
209217	MECHANICAL AND AUTOMATION ENGINEERING		15 cr				
	KTE0863	Mechanical Engineering	-	3	-	-	FI
	KTE1258	Maintenance and Corrosion Prevention	-	-	-	5	FI
	KTE1259	Process Automation I	-	-	4	-	FI
	KTE0070	Process Automation II	-	-	-	3	EN/FI
209204	CHEMISTRY		28 cr				
	KFK0033	Inorganic Chemistry I	3	-	-	-	FI
	KFK0034	Inorganic Chemistry II	3	-	-	-	FI
	KTE0865	Organic Chemistry	3	-	-	-	EN/FI
	KTE0862	Biochemistry and Introduction to Biotechnology	-	3	-	-	FI
	KTE1260	Analytical Chemistry	-	-	4	-	FI
	KTE0075	Inorganic Chemistry, Laboratory Course	3	-	-	-	FI
	KTE0076	Organic Chemistry, Laboratory Course	-	3	-	-	FI
	KTE0866	Physical Chemistry I	-	3	-	-	EN
	KTE0867	Physical Chemistry II	-	-	3	-	EN
209205	PROCESS TECHNOLOGY		20 cr				
	KTE0078	Fluid Mechanics	3	-	-	-	FI
	KTE1261	Heat Transfer Technology	-	4	-	-	FI
	KTE0080	Thermodynamics	-	3	-	-	FI
	KTE1262	Mechanical Processes I	4	-	-	-	EN/FI
	KTE0083	Mass Transfer Processes I	-	-	3	-	FI
	KTE1426	Process Modelling	-	-	3	-	EN/FI
PROFESSIONAL SPECIALISATION STUDIES		45 CR					
209207	PROCESS TECHNOLOGY		27 cr				
	KTE1263	Mass Transfer Processes II	-	-	-	4	FI
	KTE0082	Mechanical Processes II	-	3	-	-	FI
	KTE0880	Environmental Protection	-	-	3	-	EN/FI
	KTE1429	Technical Chemistry	3	-	-	-	FI
	KTE1265	Laboratory Course I, Chemical Engineering	-	-	3	-	EN/FI
	KTE1338	Laboratory Course II, Chemical Engineering	-	-	-	5	EN/FI
	KTE1339	Paper Technology II	-	3	-	-	FI
	KTE0870	Pulping Technology III	-	-	3	-	EN/FI
209220	PLANT DESIGN		18 cr				
	KTE1268	Process Design	-	-	6	-	FI
	KTE1060	Automation Design	-	-	3	-	FI
	KTE1269	Basics of Plant Design	-	-	3	-	EN/FI
	KTE1064	Plant Design Project	-	-	-	6	EN/FI
ELECTIVE STUDIES		15 cr					
PRACTICAL TRAINING		30 cr					
BACHELOR'S THESIS		15 cr					
TOTAL		240 cr					

*) FI = in Finnish, EN = in English