

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

**DEGREE PROGRAMME IN INFORMATION TECHNOLOGY,
Specialisations of Software Engineering and Media Technology**

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		38 CR					
000001	FINNISH LANGUAGE AND COMMUNICATION	4 cr					
KSU0041	Finnish Communication for Technology		-	4	-	-	FI
000005	ENGLISH LANGUAGE AND COMMUNICATION	6 cr					
KEN0079	English for Technology		-	3	-	-	FI
KEN0084	English for IT		-	-	3	-	FI
000010	MATHEMATICS	15 cr					
KMA0071	Mathematics I		3	-	-	-	FI
KMA0089	Matrix and Vector Calculus		-	3	-	-	FI
KMA0057	Mathematics III		-	-	3	-	FI
KMA0018	Mathematics V		-	3	-	-	FI
KMA0094	Numerical Mathematics		-	-	-	3	FI
000012	PHYSICS	7 cr					
KFK0047	Physics I		-	4	-	-	FI
KFK0001	Physics, Lab Course		-	-	3	-	FI
000067	COMPENSATION	3 cr					
KTE0012	Electronics, basics		3				FI
KMA0069	Introduction to mathematics 2)		3	-	-	-	FI
KTE0237	Technical Drawing and CAD 1)		3	-	-	-	FI
KSU0033	Professional Finnish 2)		-	3	-	-	FI
						<i>1) with matriculation exam, 2) with vocational diploma</i>	
PROFESSIONAL STUDIES OF STUDY PROGRAM		93 CR					
000014	INFORMATION TECHNOLOGY	23 cr					
KTI0064	Fundamentals of Information Technology		4	-	-	-	FI
KTE1315	Digital Technology		-	3	-	-	FI
KTE0681	Computer Hardware		3				
KTE0063	Digital Media		3	-	-	-	FI
KTI1070	Linux		3	-	-	-	FI
KTI0066	Operating Systems T		-	4	-	-	FI
KTE0570	Computers and Assemblers		-	-	-	3	FI
217101	PROGRAMMING	14 cr					
KTE0731	Introduction to Programming I		3	-	-	-	FI
KTE0733	Introduction to Programming II		3	-	-	-	FI
KTE1445	Programmin project I		3	-	-	-	FI
KTE1316	Object-Oriented Programming I		-	5	-	-	FI
217102	DATA MANAGEMENT TECHNOLOGY	13 cr					
KTE0061	Relational Databases I		3	-	-	-	FI
KTE0231	Relational Databases II		-	3	-	-	FI
KTE1446	Database Application Programming		-	-	4	-	FI
KTE0591	Database Design		-	-	3	-	FI

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Code	Course		1.	2.	3.	4.	FI/EN
217103	SYSTEMS ENGINEERING	8 cr					
KTE1319	System Design I		-	5	-	-	FI
KTE0250	Project Work		-	-	3	-	FI
217104	DATA TRANSFER TECHNOLOGY	16 cr					
KTE0234	Introduction to Data Communications		3	-	-	-	FI
KTE0235	Local Area Networks		-	3	-	-	FI
KTE1321	Data Transmission Systems		-	-	4	-	FI
KTI0027	Special Course in Data Communications		-	3	-	-	FI
KTE0523	Information Security		-	-	-	3	FI
217106	PROFESSIONAL STUDIES IN BUSINESS ECONOMICS	9 cr					
KMA0002	Business Mathematics I		3	-	-	-	FI
KTE1322	Introduction to Entrepreneurship		-	3	-	-	FI
KTE0664	Basics of Management		-	-	3	-	FI
PROFESSIONAL SPECIALISATION STUDIES		48 CR					
217113	SPECIALISATION OF SOFTWARE ENGINEERING	48 cr					
KTE1386	Programming, Advanced Course		-	4	-	-	FI
KTE1317	Data Structures and Algorithms I		-	-	3	-	FI
KTE1447	Software Project II		-	3	-	-	FI
KTE1320	System Desing II		-	-	5	-	FI
KTE1326	Object-Oriented Programming II		-	-	4	-	FI
KTE1152	Design Patterns		-	-	-	3	FI
KTE1327	Distributed Systems		-	-	-	4	FI
KTE1328	Programming of Algorithms		-	-	3	-	FI
KTE1330	Data Structures and Algorithms II		-	-	3	-	FI
KTE1448	Software Architectures		-	-	-	3	FI
KTE1449	Software Testing		-	-	-	3	FI
KTE1332	Projects		-	-	-	10	FI
217112	SPECIALISATION OF MEDIA TECHNOLOGY	48 cr					
KTE1450	Introduction to Web Services		-	3	-	-	FI
KTE1451	Internet Programming		-	-	3	-	FI
KTE0614	Basics of Accountancy		-	3	-	-	FI
KTE1452	Cost and Alternative Estimation		-	-	4	-	FI
KTE0613	Budgeting		-	-	-	3	FI
KTE0732	Basics of Graphic Design		-	-	3	-	FI
KTE1158	AV-Edition		-	-	3	-	FI
KTE1155	Digital Photography		-	-	3	-	FI
KTE1333	AV-Production		-	-	4	-	FI
KTE1156	AV-Systems		-	-	-	3	FI
KTE1453	Human Interface		-	-	-	3	FI
KTE1154	Animation		-	-	-	3	FI
KTE1332	Projects		-	-	-	10	FI
ELECTIVE STUDIES		15 cr					
PRACTICAL TRAINING		30 cr					
BACHELOR'S THESIS		15 cr					
TOTAL		240 cr					

*) FI = in Finnish, EN = in English