

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 2007

STUDY MODULE		Academic year/scope, cr				*)
Code	Course	1.	2.	3.	4.	Lang.
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		47 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
KFK0029	Physics III	-	-	3	-	FI
KFK0001	Physics, Lab Course	-	-	3	-	FI
217117	ALTERNATIVE STUDIES	6 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
1) with matriculation exam, 2) with vocational diploma						
305857	BASIC STUDIES IN BUSINESS ECONOMICS	6 cr				
KLI0975	Industrial Economics I	-	3	-	-	FI
KLI0976	Industrial Economics II	-	-	3	-	FI
PROFESSIONAL STUDIES OF STUDY PROGRAM		122 CR				
000014	INFORMATION TECHNOLOGY	23 cr				
KTI0064	Fundamentals of Information Technology	4	-	-	-	FI
KTE1315	Digital Technology	-	3	-	-	FI
KTE0681	Computer Hardware	3	-	-	-	FI
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

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			1.	2.	3.	4.	
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
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
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
	KLI0445 E-Business		-	-	3	-	FI
	KTE1151 Introduction to ICT-Business		-	-	3	-	FI
	KTE1530 Web Service Development		-	-	-	4	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					
PLACEMENT		30 cr					
BACHELOR'S THESIS		15 cr					
TOTAL		240 cr					

*) Language; FI = in Finnish, EN = in English