

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN INFORMATION TECHNOLOGY

Specialisation of Business Information Systems and Software Engineering

Unit of Technology/Imatra, valid for the students enrolled in 2006

STUDY MODULE		Academic year/scope, cr				*)
Code	Course	1.	2.	3.	4.	FI/EN
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		44 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
217114	BASICS OF ENGINEERING	9 cr				
KTE0012	Introduction to Electronics	3	-	-	-	FI
KTE1315	Digital Technology (IT)	-	3	-	-	FI
KLI0560	Basic Business Logistics	3	-	-	-	FI
000067	COMPENSATION	3 cr				
KTE0237	Technical Drawing and CAD 1)	3	-	-	-	FI
KMA0069	Introduction to mathematics 2)	3	-	-	-	FI
	<i>1) with matriculation exam, 2) with vocational diploma</i>					
PROFESSIONAL STUDIES OF STUDY PROGRAM		95 CR				
000014	INFORMATION TECHNOLOGY	20 cr				
KTI0064	Introduction to Information Technology	4	-	-	-	FI
KTE0681	Computer Hardware	3	-	-	-	FI
KTE0063	Digital Media	3	-	-	-	FI
KTE1070	Linux	3	-	-	-	FI
KTI0065	IT Work Assignment	3	-	-	-	FI
KTI0066	Operating Systems T	-	4	-	-	FI
217101	PROGRAMMING	18 cr				
KTE0731	Introduction to Programming I	3	-	-	-	FI
KTE0733	Introduction to Programming II	3	-	-	-	FI
KTE1386	Programming, Advanced Course	-	4	-	-	FI
KTE1316	Object-Oriented Programming I	-	5	-	-	FI
KTE1317	Data Structures and Algorithms I	-	-	3	-	FI

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN INFORMATION TECHNOLOGY

Specialisation of Business Information Systems and Software Engineering

Unit of Technology/Imatra, valid for the students enrolled in 2006

STUDY MODULE			Academic year/scope, cr				*)
Code	Course		1.	2.	3.	4.	FI/EN
217102	DATABASE TECHNOLOGY	11 cr					
KTE0061	Relational Databases I		3	-	-	-	FI
KTE0231	Relational Databases II		-	3	-	-	FI
KTE1318	Database Application Programming		-	-	5	-	FI
217103	SYSTEMS DEVELOPMENT	13 cr					
KTE1319	Systems Analysis and Design I		-	5	-	-	FI
KTE1320	Systems Analysis and Design II		-	-	5	-	FI
KTE0250	Project Management		-	-	3	-	FI
217104	DATA COMMUNICATIONS	16 cr					
KTE0234	Introduction to Data Communications		3	-	-	-	FI
KTE0235	Local Area Networks		-	3	-	-	FI
KTE1321	Data Communication Systems		-	-	4	-	FI
KTI0027	Special Course in Data Communications		-	-	3	-	FI
KTE0523	Information Security		-	-	-	3	FI
217106	PROFESSIONAL STUDIES IN BUSINESS	17 cr					
KMA0002	Business Mathematics I		3	-	-	-	FI
KTE0664	Basics of Management		-	-	3	-	FI
KTE1322	Introduction to Entrepreneurship		-	3	-	-	FI
KTE0614	Basics of Accounting		-	-	3	-	FI
KTE1323	Cost and Alternative Estimation		-	-	-	5	FI
PROFESSIONAL SPECIALISATION STUDIES		30 CR					
217115	SPECIALIZATION IN BUSINESS INFORMATION SYSTEMS	30 cr					
KLI0445	Electronic Business		-	-	3	-	FI
KTE1294	Enterprise Resource Planning		-	-	-	3	FI
KTE0737	Special Course in Information Systems		-	-	-	3	FI
KTE1324	Web Service Development		-	-	5	-	FI
KTE0591	Database Design		-	-	3	-	FI
KTE1151	ICT Business		-	-	-	3	FI
KTE1325	Information Systems Project		-	-	-	10	FI
217113	SPECIALIZATION IN SOFTWARE ENGINEERING	30 cr					
KTE1326	Object-Oriented Programming II		-	-	4	-	FI
KTE1152	Design Patterns		-	-	-	3	FI
KTE1327	Distributed Systems		-	-	4	-	FI
KTE1328	Special Course In Software Engineering		-	-	-	3	FI
KTE0570	Computers and Compilers		-	-	-	3	FI
KTE1330	Data Structures and Algorithms II		-	-	3	-	FI
KTE1329	Software Engineering Project		-	-	-	10	FI
ELECTIVE STUDIES		15 cr					
PRACTICAL TRAINING		30 cr					
BACHELOR'S THESIS		15 cr					
TOTAL		240 cr					

*) FI = in Finnish, EN = in English