

ENGINEERING INFORMATION TECHNOLOGY (BSc in English)

Valid from 2013/2014 academic year (hours / week)

Code	Subjects	1 st semester					2 nd semester					3 rd semester					4 th semester					5 th semester					6 th semester					7 th semester					Prerequisites
		L	S	Lab	Ev	Cr	L	S	Lab	Ev	Cr	L	S	Lab	Ev	Cr	L	S	Lab	Ev	Cr	L	S	Lab	Ev	Cr	L	S	Lab	Ev	Cr	L	S	Lab	Ev	Cr	
	Natural sciences fundamentals (40 credits)																																				
B-VI-ANLZS1	Mathematical Analysis I.	2	2	0	e	5																															
B-VI-SZTTUD	Computation Theory Fundamentals	2	1	0	e	5																															
B-VI-ANLZS2	Mathematical Analysis II.						2	2	0	e	5																										B-VI-ANLZS1
B-VI-FIZIKA	Physics						2	1	0	e	5																										B-VI-ANLZS1
B-VI-VILLAM	Electricity						2	1	0	e	5																										B-VI-ANLZS1
B-VI-PROB	Problem Solving and Algorithms						2	1	0	e	5																										
B-VI-LINALG	Linear Algebra											2	1	0	e	5																					
B-VI-VALSTA	Probability and Mathematical Statistics																2	1	0	e	5																B-VI-ANLZS2
	Economic and Human Knowledges (21 credits)																																				
B-VI-KOZGT	Economics	3	0	0	e	5																															
B-B3-JALLIG	Law and Public Administration	1	0	0	r	2																															
B-B3-TUDTEC	History of Sciences and Technics	1	0	0	r	2																															
B-VI-VGAZME	Enterprise Economics and Management											1	1	0	e	3																					B-VI-KOZGT
B-B3-MINMEN	Quality Management																1	0	0	r	2																B-VI-VGAZME
B-B3-HRMEN	Human Resource Management																					2	0	0	r	2											
B-B3-PRMEN	Project Management																										1	1	0	r	2						B-VI-VGAZME
B-VI-KRNYGT	Environment Economics																										2	0	0	e	3						B-VI-KOZGT
	Technical Systems Module																																				
B-GY-INFOAL	Information Technology Fundamentals	2	0	1	p	5																															
B-VI-ELEKTR	Electronics						2	0	1	e	4																										
B-VI-DIGTEC	Digital Design											2	1	0	e	5																					B-VI-ELEKTR, B-VI-SZTTUD
B-GY-MERIRA	Measurement and Control											2	0	1	p	5																					B-VI-ANLZS2, B-VI-VILLAM
B-VI-SZTGA1	Computer Architecture I.											2	1	0	e	4																					B-GY-INFOAL
B-GY-SZGRAF	Computer Graphics											2	0	1	p	4																					
B-VI-SZTGA2	Computer Architecture II.																2	1	0	e	4																B-VI-SZTGA1, B-VI-DIGTEC
B-GY-OPREND	Operating Systems																2	0	1	p	4																B-GY-INFOAL
B-VI-SZHALO	Computer Networks																2	0	1	e	5																B-GY-INFOAL
	Programming Module																																				
B-GY-PROGAL	Programming Fundamentals	2	0	2	p	6																															
B-GY-PRGTEC	Programming Technology						2	0	2	p	6																										B-GY-PROGAL
B-GY-VPROG	Visual Programming											2	0	1	p	4																					B-GY-PRGTEC
B-GY-WEBPRG	Webprogramming Fundamentals																2	0	1	p	5																B-GY-PROGAL
	Information Systems Module																																				
B-VI-DBALAP	Databases																2	0	2	e	5																B-VI-PROB
B-VI-INFRF	Information Systems Development																					2	1	1	e	5											B-GY-PROGAL
B-GY-OPUZEM	Operating Systems Administration																					2	0	2	p	5											B-GY-OPREND
B-VI-MESTIN	Artificial Intelligence																										2	1	0	e	4						B-VI-LINALG
B-VI-INFBIZ	Information Security Fundamentals																										2	1	0	e	4						B-VI-SZHALO

Specialization (20 credit)																									
Technical Applications Specialization																									
B-GY-MMEDIA	Multimedia										2	0	1	p	5										B-GY-OPREND
B-GY-TSTMOD	3D Modeling										1	0	2	p	5										B-GY-SZGRAF
B-VI-INFKOM	Info-Communication										2	1	0	e	5										B-VI-SZHALO
B-VI-IVTISZ	Enterprise Resource Planning Systems										2	0	1	e	5										B-VI-VGAZME
B-GY-DIGKEP	Digital Image Processing															2	0	1	p	5				B-GY-SZGRAF	
B-GY-SZIGYR	Computer Integrated Manufacturing															2	0	1	p	5				B-GY-MERIRA	
B-VI-BEAGYR	Embedded Systems															2	0	1	v	5				B-VI-SZTGA2	
B-VI-TERINF	Geographic Information Systems															2	0	1	v	5				B-VI-DBALAP	
Software Development Specialization																									
B-GY-DBSERV	Database Servers										2	0	1	p	5										B-VI-DBALAP
B-GY-INTAL1	Internet Applications Development I.										2	0	1	p	5										B-GY-WEBPRG
B-VI-OOSZF	Object Oriented Software Development										2	0	1	e	5										B-GY-PRGTEC
B-VI-FLHINT	User Interface										2	1	0	e	5										B-GY-PROGAL
B-GY-INTAL2	Internet Applications Development II.															2	0	1	p	5				B-GY-WEBPRG	
B-GY-BI	Decision Support Systems and Business Intelligence															2	0	1	p	5				B-GY-DBSERV	
B-VI-ELOALK	Distributed Applications															2	0	1	v	5				B-GY-PRGTEC	
B-VI-ALKFTE	Application Development Technology															2	0	1	v	5				B-GY-PRGTEC, B-VI-DBALAP	
Facultative Subjects (min. 10 credits)																	10								
B-VI-VFMAT	Selected Subjects in Mathematics																		2	1	0	e	4	B-VI-LINALG	
B-VI-ELMFIZ	Theoretical Physics																		2	1	0	e	4	B-VI-FIZIKA	
B-VI-HTREND	Fault-Tolerant Systems																		2	1	0	e	4	B-VI-SZTGA2	
B-VI-ASSMBL	Assembly Programming															1	0	2	p	4				B-VI-SZTGA2	
B-GY-NYOPR	Open Source Operating Systems															1	0	2	p	4				B-GY-OPREND	
B-VI-MINMEG	Quality and Reliability															2	1	0	e	4				B-VI-VALSTA	
B-VI-TAVERZ	Remote Sensing															2	1	0	e	4				B-VI-FIZIKA	
B-GY-IBMDB2	IBM DB2															1	0	1	p	3				B-GY-OPREND	
B-GY-WEBANI	Webanimation															1	0	1	p	3				B-GY-WEBPRG	
B-GY-VIRTVM	Virtual Reality Modeling															1	0	1	p	3				B-GY-SZGRAF	
B-B3-FILOZ	Philosophy															2	0	0	r	3					
B-B3-SZOCIO	Sociology															2	0	0	r	3					
B-GY-KUTMOD	Research Methodology															1	1	0	r	3					
Internship														6 weeks			0								
Thesis Preparation																	0 0 0 s 15								

Legend: L (lecture), S (seminar), Lab (laboratory), Ev (evaluation), Cr (credits)
e (exam), p (practical), r (report), s (signature)

Total:	19			20			20			20			20			20			min. 11		
	285	7	30	300	6	30	300	7	30	300	7	30	300	7	30	300	7	30	min. 165	5	min 30
	Total credits = min. 210																				