AY2020-21 CURRICULUM FOR COMPUTER SCIENCE 2ND MAJOR IN BUSINESS (INTERNATIONAL TRADING PROGRAMME)

Option 1: 10-week Professional Attachment (PA)

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	Core	МРЕ	GER-Core	ITP Track Courses	UE (2nd Major)	UE	Total AU	
1	26	0	8	0	7	0	41	
2	18	0	4	6	7	0	35	
3	27	6	2	4	0	5	44	
4	8	12	0	6	0	0	26	
Total	79	18	14	16	14	5	146	

Option 1: 10-week Professional Attachment (PA)

	YEAR 1 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-Requisite			
MH1810	Mathematics I	С	3				
MH1812	Discrete Mathematics	С	3				
CZ1103	Introduction to Computational Thinking & Programming	С	3				
CZ1105	Digital Logic	С	3				
CZ1113	Physics for Computing	С	2				
AB1201	Financial Management	UE (2nd Major)	3				
HW0188	Effective Communication	GER-Core	2				
GC0001	Sustainability: Seeing Through the Haze	GER-Core	1	online course			
HY0001	Ethics & Moral Reasoning	GER-Core	1	online course			
HW0001	Introduction to Academic Communication	GER-Core	0	For students who failed QET			
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	YEAR 1 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CZ1104	Linear Algebra for Computing	С	3				
CZ1106	Computer Organisation and Architecture	С	3	CZ1105 (can be taken concurrently)			
CZ1107	Data Structures and Algorithms	С	3	CZ1103			
	Engineering Fundamentals 2	С	3				
BE1401	Business Operations and Processes	UE (2nd Major)	4				
CZ1115	Introduction to Data Science and Artificial Intelligence	GER-Core	3	CZ1103			
ET0001	Enterprise & Innovation	GER-Core	1				
			20				

	YEAR 2 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CZ2100	Probability and Statistics for Computing	С	3	MH1810			
CZ2002	Object Oriented Design & Programming	С	3	CZ1103			
CZ2005	Operating Systems	С	3	CZ1106, CZ1107			
CZ2006	Software Engineering	С	3	CZ2002 (can be taken			
C22006	Software Engineering			concurrently)			
BF2218	Commodity Markets	ITP Track Course	4				
AD1101	Financial Accounting	UE (2nd Major)	4				
			20				

	YEAR 2 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CZ2101	Algorithm Design and Analysis	С	3	CZ1107, MH1812			
CZ2007	Introduction to Databases	С	3	CZ2101 (can be taken			
CZ2007				concurrently)			
AB1501	Marketing	UE (2nd Major)	3				
BF3214	Commodities Trading	UE (2nd Major)	2				

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EG0001	Engineers & Society	GER-Core	3	
ML0003	Kickstart your Career Success	GER-Core	1	online course
			15	

	YEAR 3 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CZ3004	Multidisciplinary Design Project	С	4	CZ2101, CZ2006			
CZ3006	Net Centric Computing	С	3	CZ1104, CZ2100			
CZ3005	Artificial Intelligence	_	3	CZ1107, CZ1115,			
C23003	Ai tiliciai intelligence			CZ2101			
CZ4062	Computer Security	c l	3	CZ2005			
CZ-1002	compater security			022003			
CZ4031	Database System Principles	С	3	CZ2007			
BF2216	Trade Incoterms & Ship Chartering	ITP Track Course	4				
DI 2210	BF2210 Trade incoternis & Ship chartering						
			20				
			20				

	YEAR 3 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CZ3002	Advanced Software Engineering	С	3	CZ2006			
CZ3001	Advanced Computer Architecture	С	3	CZ1106			
CZ4XXX	Prescribed Elective 1	MPE	3				
CZ4XXX	Prescribed Elective 2	MPE	3				
HW0288	Engineering Communication	GER-Core	2	HW0188, Year 3 Standing			
	Unrestricted Elective	UE	3				
	Unrestricted Elective	UE	2				
			19				

	YEAR 3 SPECIAL SEMESTER						
Course Code Course Title Type AU Pre-Requisite							
CZ3126	Professional Attachment	С	5	ML0003, Year 3 Standing			
			5				

	YEAR 4 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CZ4079	Final Year Project	С	-	Final Year Standing			
CZ4XXX	Prescribed Elective 3	MPE	3				
CZ4XXX	Prescribed Elective 4	MPE	3				
CZ4XXX	Prescribed Elective 5	MPE	3				
BF2302	International Tax and Trading Law	ITP Track Course	2				
			11				

YEAR 4 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite		
CZ4079	Final Year Project (cont)	С	8			
CZ4XXX	Prescribed Elective 5	MPE	3			
BF3212	Trade, Structured & Supply Chain Finance	ITP Track Course	2			
BF3213	Enterprise Risk Management in Commodity Markets	ITP Track Course	2			
			15			

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Option 2: 20-week Professional Internship (PI)

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	Core	МРЕ	GER-Core	ITP Track Courses	UE (2nd Major)	UE	Total AU	
1	26	0	8	0	7	0	41	
2	21	0	4	6	7	0	38	
3	26	0	2	4	0	0	32	
4	11	18	0	6	0	0	35	
Total	84	18	14	16	14	0	146	

Option 2: 20-week Professional Internship (PI)

YEAR 1 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite
MH1810	Mathematics I	С	3	
MH1812	Discrete Mathematics	С	3	
CZ1103	Introduction to Computational Thinking & Programming	С	3	
CZ1105	Digital Logic	С	3	
CZ1113	Physics for Computing	С	2	
AB1201	Financial Management	UE (2nd Major)	3	
HW0188	Effective Communication	GER-Core	2	
GC0001	Sustainability: Seeing Through the Haze	GER-Core	1	online course
HY0001	Ethics & Moral Reasoning	GER-Core	1	online course
11)4/0001	Introduction to Academic Communication	CED Coro	0	For students who
HW0001		GER-Core	0	failed QET
			21	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ1104	Linear Algebra for Computing	С	3	
CZ1106	Computer Organisation and Architecture	С	3	CZ1105 (can be taken
CZ1106	106 Computer Organisation and Architecture C	3	concurrently)	
CZ1107	Data Structures and Algorithms	С	3	CZ1103
	Engineering Fundamentals 2	С	3	
BE1401	Business Operations and Processes	UE (2nd Major)	4	
CZ1115	Introduction to Data Science and Artificial Intelligence	GER-Core	3	CZ1103
ET0001	Enterprise & Innovation	GER-Core	1	
			20	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ2100	Probability and Statistics for Computing	С	3	MH1810
CZ2002	Object Oriented Design & Programming	С	3	CZ1103
CZ2005	Operating Systems	С	3	CZ1106, CZ1107
CZ2006	Software Engineering		3	CZ2002 (can be taken
CZ2006	Software Engineering	C		concurrently)
BF2218	Commodity Markets	ITP Track Course	4	
AD1101	Financial Accounting	UE (2nd Major)	4	
			20	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ2101	Algorithm Design and Analysis	С	3	CZ1107, MH1812
CZ2007	Introduction to Databases	С	3	CZ2101 (can be taken concurrently)
CZ3006	Net Centric Computing	С	3	CZ1104, CZ2100
AB1501	Marketing	UE (2nd Major)	3	
BF3214	Commodities Trading	ITP Track Course	2	
EG0001	Engineers & Society	GER-Core	3	

ML0003	Kickstart your Career Success	GER-Core	1	online course
			18	

	YEAR 3 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite	
CZ3004	Multidisciplinary Design Project	С	4	CZ2101, CZ2006	
CZ3005	Artificial Intelligence	С	3	CZ1107, CZ1115, CZ2101	
CZ4062	Computer Security	С	3	CZ2005	
CZ4031	Database System Principles	С	3	CZ2007	
CZ3001	Advanced Computer Architecture	С	3	CZ1106	
BF2216	Trade Incoterms & Ship Chartering	ITP Track Course	4		
			20		

YEAR 3 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ3179	Professional Internship	С	10	ML0003, Year 3
			10	

	YEAR 4 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite	
CZ4079	Final Year Project	С	-	Final Year Standing	
CZ3002	Advanced Software Engineering	С	3	CZ2006	
CZ4XXX	Prescribed Elective 1	MPE	3		
CZ4XXX	Prescribed Elective 2	MPE	3		
CZ4XXX	Prescribed Elective 3	MPE	3		
BF2302	International Tax and Trading Law	ITP Track Course	2		
HW0288	Engineering Communication	GER-Core	2	HW0188, Year 3	
			16		

YEAR 4 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ4079	Final Year Project (cont)	С	8	
CZ4XXX	Prescribed Elective 4	MPE	3	
CZ4XXX	Prescribed Elective 5	MPE	3	
CZ4XXX	Prescribed Elective 6	MPE	3	
BF3212	Trade, Structured & Supply Chain Finance	ITP Track Course	2	
BF3213	Enterprise Risk Management in Commodity Markets	ITP Track Course	2	
			21	

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