AY2020-21 CURRICULUM FOR COMPUTER SCIENCE 2ND MAJOR IN BUSINESS

Option 1: 20-week Professional Internship (PI)

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SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	Core	MPE	GER-Core	Advanced Business Courses	UE (2nd Major)	UE	Total AU	
1	26	0	8	0	7	0	41	
2	21	0	4	0	13	0	38	
3	26	0	2	4	0	0	32	
4	11	18	0	8	0	0	37	
Total	84	18	14	12	20	0	148	

Option 1: 20-week Professional Internship (PI)

	YEAR 1 SEMESTER 1							
Course Code	Course Title	Туре	AU	Pre-Requisite				
MH1810	Mathematics I	С	3	Nil				
MH1812	Discrete Mathematics	С	3	Nil				
CZ1103	Introduction to Computational Thinking & Programming	С	3	Nil				
CZ1105	Digital Logic	С	3	Nil				
CZ1113	Physics for Computing	С	2	Nil				
AB1201	Financial Management	UE (2nd Major)	3	Nil				
HW0188	Effective Communication	GER-Core	2	Nil				
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				
			21					

	YEAR 1 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CZ1104	Linear Algebra for Computing	С	3	MH1810			
CZ1106	Computer Organisation and Architecture	С	3	CZ1105 (co-requisite)			
CZ1107	Data Structures and Algorithms	С	3	CZ1103			
xxxxxx	Engineering Fundamentals 2	С	3	Nil			
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 (co-requisite)			
AB1301	Business Law	UE (2nd Major)	3				
AD1101	Financial Accounting	UE (2nd Major)	4				
			19				

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 (co-requisite)		
CZ3006	Net Centric Computing	С	3	CZ1104, CZ2100		
AB1501	Marketing	UE (2nd Major)	3			
AB1601	Organisational Behaviour and Design	UE (2nd Major)	3			
EG0001	Engineers & Society	GER-Core	3			
ML0003	Kickstart your Career Success	GER-Core	1	online course		
			19			

	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,			
CZ4062	Computer Security	С	3	CZ2005			
CZ4031	Database System Principles	С	3	CZ2007			
CZ3001	Advanced Computer Architecture	С	3	CZ1106			
Bxxxxx	Advanced Bus Course 1	Adv Course (Bus)	4				
HW0288	Engineering Communication	GER-Core	2	HW0188, Year 3			
			22				

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

	YEAR 4 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CZ3002	Advanced Software Engineering	С	3	CZ2006			
CZ4079	Final Year Project	С	4	Final Year Standing			
CZ4XXX	Prescribed Elective 1	MPE	3				
CZ4XXX	Prescribed Elective 2	MPE	3				
CZ4XXX	Prescribed Elective 3	MPE	3				
Bxxxxx	Advanced Bus Course 3	Adv Course (Bus)	4				
			20				

	YEAR 4 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite			
CZ4079	Final Year Project (cont)	С	4				
CZ4XXX	Prescribed Elective 4	MPE	3				
CZ4XXX	Prescribed Elective 5	MPE	3				
CZ4XXX	Prescribed Elective 6	MPE	3				
Bxxxxx	Advanced Bus Course 2	Adv Course (Bus)	4				
			17				

Advanced Business Courses

- a. BF2201 Investments (Prerequisite: AB1201)
- b. BE2601 Management Principles, Skills and Competencies (Prerequisite: AB1601)
- c. BM2501 Market Behaviour (Prerequisite: AB1501)
- d. BM2502 Market Intelligence (Prerequisite: AB1501 and AB1202)

AY2020-21 CURRICULUM FOR COMPUTER SCIENCE 2ND MAJOR IN BUSINESS

Option 2: 10-week Professional Attachment (PA)

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Core	МРЕ	GER-Core	Advanced Business Courses	UE (2nd Major)	UE	Total AU
1	26	0	8	0	7	0	41
2	18	0	4	0	13	0	35
3	27	3	2	8	0	0	40
4	8	15	0	4	0	5	32
Total	79	18	14	12	20	5	148

Option 2: 10-week Professional Attachment (PA)

YEAR 1 SEMESTER 1							
Course Code	Course Title	Туре	AU	Pre-Requisite			
MH1810	Mathematics I	С	3	Nil			
MH1812	Discrete Mathematics	С	3	Nil			
CZ1103	Introduction to Computational Thinking & Programming	С	3	Nil			
CZ1105	Digital Logic	С	3	Nil			
CZ1113	Physics for Computing	С	2	Nil			
AB1201	Financial Management	UE (2nd Major)	3	Nil			
HW0188	Effective Communication	GER-Core	2	Nil			
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			
			21				

YEAR 1 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite		
CZ1104	Linear Algebra for Computing	С	3	MH1810		
CZ1106	Computer Organisation and Architecture	С	3	CZ1105 (co-requisite)		
CZ1107	Data Structures and Algorithms	С	3	CZ1103		
xxxxxx	Engineering Fundamentals 2	С	3	Nil		
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 (co-requisite)
AB1301	Business Law	UE (2nd Major)	3	
AD1101	Financial Accounting	UE (2nd Major)	4	_
			19	

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 (co-requisite)

AB1501	Marketing	UE (2nd Major)	3	
AB1601	Organisational Behaviour and Design	UE (2nd Major)	3	
EG0001	Engineers & Society	GER-Core	3	
ML0003	Kickstart your Career Success	GER-Core	1	online course
			16	

	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	С	3	CZ1107, CZ1115, CZ2101	
CZ4062	Computer Security	С	3	CZ2005	
HW0288	Engineering Communication	GER-Core	2	HW0188/CC0001, Year 3 Standing	
Bxxxxx	Advanced Bus Course 1	Adv Course (Bus)	4		
			19		

	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
CZ4031	Database System Principles	С	3	CZ2007
CZ4XXX	Prescribed Elective 1	MPE	3	
Bxxxxx	Advanced Bus Course 2	Adv Course (Bus)	4	
			16	

YEAR 3 SPECIAL SEMESTER						
Course Code	Course Code Course Title Type AU Pre-Requisite					
CZ3026	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	4	Final Year Standing	
CZ4XXX	Prescribed Elective 2	MPE	3		
CZ4XXX	Prescribed Elective 3	MPE	3		
Bxxxxx	Advanced Bus Course 3	Adv Course (Bus)	4		
xxxx	Unrestricted Elective	UE	2		
			16		

YEAR 4 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite	
CZ4079	Final Year Project (cont)	С	4		
CZ4XXX	Prescribed Elective 4	MPE	3		
CZ4XXX	Prescribed Elective 5	MPE	3		
CZ4XXX	Prescribed Elective 6	MPE	3		
xxxx	Unrestricted Elective	UE	3		
			16		

Advanced Business Courses

- a. BF2201 Investments (Prerequisite: AB1201)
- b. BE2601 Management Principles, Skills and Competencies (Prerequisite: AB1601)
- c. BM2501 Market Behaviour (Prerequisite: AB1501)
- d. BM2502 Market Intelligence (Prerequisite: AB1501 and AB1202)