AY2020-21 CURRICULUM FOR COMPUTER SCIENCE DOUBLE DEGREE IN BUSINESS (with BA Specialisation)

Last Updated : April - 2022

SUMMARY OF ACADEMIC UNIT REQUIREMENT						
Year of Study	Core	MPE	GER-Core	GER-PE	UE	Total AU
1	37	0	13	0	0	50
2	25	12	0	0	3	40
3	25	4	5	0	3	37
4	18	17	0	3	0	38
Total	105	33	18	3	6	165

	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	
CZ1113	Physics for Computing	С	2	
AB1202	Statistical and Quantitative Methods	С	3	
AB1301	Business Law	GER-Core	3	
AB1001	Career Foundations	С	1	
EG0001	Engineers & Society	GER-Core	3	
GC0001	Sustainability: Seeing Through the Haze	GER-Core	1	online course
HY0001	Ethics & Moral Reasoning	GER-Core	1	online course
			23	

	YEAR 1 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-Requisite
	Engineering Fundamentals 2	С	3	
CZ1105	Digital Logic	С	3	
CZ1106	Computer Organisation & Architecture		3	CZ1105 (can be taken
CZ1106	Computer Organisation & Architecture		3	concurrently)
AB1002	Career Readiness	С	1	AB1001
AD1101	Financial Accounting	С	4	
AB1601	Organisation Behaviour and Design	С	3	
AB0601	Communication Management Fundamentals	GER-Core	2	
CZ1115	Introduction to Data Science and Artificial Intelligence	GER-Core	3	CZ1103
			22	

	YEAR 1 SPECIAL SEMESTER			
Course Code	Course Title	Type	AU	Pre-Requisite
AB1003	Professional Attachment (Special Semester)	С	5	AB1002
			5	

	YEAR 2 SEMESTER 1			
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ1104	Linear Algebra for Computing	С	3	MH1810
CZ1107	Data Structures & Algorithms	С	3	CZ1103
CZ2002	Object Oriented Design and Programming	С	3	CZ1103
AD2101	Management Accounting	С	4	AD1101
BC2402	Designing & Developing Databases	MPE	4	
BC2406	Analytics I: Visual and Predictive Analytics	MPE	4	
			21	

ENG 1

	YEAR 2 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ2100	Probability and Statistics for Computing	С	3	MH1810
CZ2101	Algorithm Design and Analysis	С	3	CZ1107, MH1812
CZ2006	Software Engineering	С	3	CZ2002 (can be taken
CZ2006	Software Engineering			concurrently)
AB1201	Financial Management	С	3	
BC2407	Analytics II: Advanced Predictive Analytics	MPE	4	
	Unrestricted Elective	UE	3	
			19	

	YEAR 3 SEMESTER 1			
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ2005	Operating Systems	С	3	CZ1106, CZ1107
CZ3006	Computer Networks(Net Centric Computing)	С	3	CZ1104, CZ2100
CZ3005	Artificial Intelligence	С	3	CZ1107, CZ1115, CZ2101
CZ3002	Advanced Software Engineering	С	3	CZ2006
AB1501	Marketing	С	3	
ET0001	Enterprise & Innovation	GER-Core	1	online course
	Unrestricted Elective	UE	3	
			19	

	YEAR 3 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ3004	Multidisciplinary Design Project	С	4	Year 3 standing
CZ4062	Computer Security	С	3	CZ2005
CZ4031	Database System Principles	С	3	CZ2007
AB0602	Communication Management Strategy	GER-Core	4	AB0601
BCXXXX	Business/CS Integration 1	MPE	4	
			18	

	YEAR 4 SEMESTER 1			
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ4079	Final Year Project	С	-	Final Year Standing
CZ3001	Advanced Computer Architecture	С	3	CZ1106
CZ4XXX	Prescribed Elective 1	MPE	3	Depends on MPE
CZ4XXX	Prescribed Elective 2	MPE	3	Depends on MPE
HE5091	Principles of Economics	С	3	
BCXXXX	Business/CS Integration 2	MPE	4	
	Science & Technology	GER-PE	3	
			19	

	YEAR 4 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-Requisite
CZ4079	Final Year Project	С	8	
CZ4XXX	Prescribed Elective 3	MPE	3	Depends on MPE
BCXXXX	Business/CS Integration 3	MPE	4	
AB3601	Strategic Management	С	4	AB1501, AB1601
			19	
	Total AU for Gra	aduation :	165	

BCxxxx Business/CS Integration Courses (As of 13 July 2020)
(Students to choose any 3 courses)
BT2403 Service Operations Management
BC2408 Supply Chain Analytics
BC3402 Financial Service Processes and Analytics
BC3405 Lean Operations & Analytics
BC3406 Business Analytics Consulting
BC3408 Decision Modelling & Analytics
BC3409 AI in Accounting and Finance

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