School of Mathematics, Statistics & Applied Mathematics B.Sc. Computing Pathway

For 1st year students Ac. Yr 2021/2022

B.Sc. Undenominated Science - 1BS1 - Computing Pathway						
Exclusion						Exclusion-
1st year		ECTS		Sem	Pre/Co-requisites	requisites
CS102	Computing	15	Core	1+11		
Any other 45 ECTS						

For 2nd year students Ac.Yr 2021/2022

B.Sc. Undenominated Science - 2BS1 - Computing Pathway							
						Exclusion-	
2nd year		ECTS		Sem	Pre/Co-requisites	requisites	
CS2101	Programming for Science and Finance	5	Core	I			
CS211	Programming and Operating Systems	5	Core	Ш			
CT2101	Object Orientated Programming I	5	Core	ı			
CT2102	Object Orientated Programming II	5	Core	II			
An additional 40ECTS pathways or electives.							
Please refer to the Programme Booklet for complete list of Pathways and electives.							

For 3rd year students Ac.Yr 2021/2022

B.Sc. Undenominated Science - 3BS9 - Computing Pathway								
3rd year				Sem	Pre/Co-requisites	Exclusion- requisites		
CS3304	Logic	5	Core	ı				
CS319	Scientific Computing	5	Core	Ш				
CT3535	Object Oriented Programming	5	Core	ı				
CT2108	Networks and Data Communications	5	Core	II				
Select 10 ECTS from following options:								
CT511	Databases	5	Option	I				
CT331	Programming Paradigms	5	Option	Т				
CT411	Multimedia Development	5	Option	II				
MA215	Mathematical Molecular Biology I	5	Option	Т				
MA216	Mathematical Molecular Biology II	5	Option	II				
MP305	Modelling I	5	Option	Т				
MP307	Modelling II	5	Option	II				
Select a further 30 ECTS from College of Science pathways or electives.								
Please refer to the Programme Booklet for complete list of Pathways and electives.								

For 4th year students Ac. Yr 2021/2022

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B.Sc. Undenominated Science - 4BS2 - Computing Pathway								
4th year				Sem	Pre/Co-requisites	Exclusion- requisites		
MM4000	Final Year Project	10	Core	I+II				
CS402	Cryptography	5	Core	II				
CS4102	Geometric Foundations in Data Analysis I	5	Core	ı	CS2101(or dsctd.CS208)&CS211 or MA283&MA2287			
CS4103	Geometric Foundations in Data Analysis II	5	Core	Ш				
CS4423	Networks	5	Core	II				
CT336	Graphics And Image Processing	5	Core	ı		•		
CT4101	Machine Learning	5	Core	ı				
Select mo	dules to a total 20 ECTS from following option	s, subjec	t to timeta	bling a	nd prerequisites - please refer to modul	e owner:		
MA4102	Algebraic Foundations of Quantum Computing	5	Elective	ı	MA283			
CT421	Artificial Intelligence	5	Elective	I				
CT865	Human Computer Interaction	5	Elective	Ī				

CT331	Programming Paradigms	5	Elective	- 1	
CT4100	Information Retrieval	5	Elective	ı	
	Distributed Systems and Cooperative				
CT414	Computing	5	Elective	Ш	
	Object Oriented Software Design &				
CT548	Development	5	Elective	II	
MA385	Numerical Analysis I	5	Elective	- 1	
MA378	Numerical Analysis II	5	Elective	Ш	
MP305	Modelling I	5	Elective	ı	
MP307	Modelling II	5	Elective	II	