## Year 01

	Unit Credits Credits		Cc	Hours						
Unit code		Core/ Elective	Lectures	Practicals	Tutorials	Project work	Industry engagement			
Year 1 – Se	mester 1									
CMP1101	Computer Systems	3	C	2	2	1				
PRF1101	Professional Practice	3	C	2			2	1		
FND1101	Mathematics for Computing (with Programming)	4	С	3	2	1				
PRF1102	Communication in Tech World	3	C	2	2			1		
CMP1102	Programming Concepts	3	C	2	2		1			
	<b>Total credits</b>	16								
Year 1 – Se	mester 2									
PRF1201	Entrepreneurship & Start-up Culture	3	С	2			2	1		
REQ1201	Business Analysis and Software Design	3	С	2	2			1		
CMP1201	Internet Technologies	3	C	2	2	1				
FND1101	Probability & Statistics (with	4	С	3	2	1				
	Programming)									
CMP1202	Data Technologies	3	C	2	2		1			
	Total credits	16								

Year 02

Unit code	Unit name	Cre	Core/	Hours						
		Credits	Core/Elective	Lectures	Practicals	Tutorials	Project work	Industry engagement		
Year 2 – Se	mester 1					1				
SEC2101	Information Security	3	С	2	2			1		
CMP2101	Object Oriented Programming	3	С	2	2	1				
CMP2102	Communication Protocols and Models	3	С	2	2	1				
PRF2101	Arts for Technology	3	С	2			2	1		
FND2101	Programming with Vectors and Matrices	4	С	3	2	1				
	Total credits	16								
Year 2 – Se	mester 2									
CMP2201	Data structures and algorithms	3	C	2	2	1				
PRO2201	Project Management	3	C	2			2	1		
CMP2202	Operating Systems and Platforms	3	C	2	2	1				
CMP2203	Cloud Computing Fundamentals	3	С	2	2			1		
DES2201	Technology Challenge Competition	4	C	1	2		5			
	Total credits	16								

Year 03

Unit code	Unit name	Cre	Core/	Hours						
		Credits	Core/ Elective	Lectures	Practicals	Tutorials	Project work	Industry engagement		
Year 3 – Se	mester 1 (3 Core units + at least 2 E	lectiv	ves)							
CYS3101	Cyber security Domains and Tools	3	С	2	2			1		
CYS3102	Cyber Law, Regulations and Policies	3	С	2	2			1		
CYS3103	Network Security	3	С	2	2			1		
CYS3104	Ethical Hacking	3	Е	2	2		1			
FND3102	Techniques in Social Media	3	Е	2			2	1		
CMP3102	Data Warehousing	3	Е	2	2	1				
CMP3102	Virtualization and Containers	3	Е	2	2			1		
CMP3101	Artificial Intelligence	4	Е	3	2	1				
DES3101	Human Factors in Computer Systems	3	Е	2	2			1		

	Total credits	15								
		16								
Year 3 – Se	Year 3 – Semester 2 (3 Core units + at least 2 Electives)									
CYS3201	Advanced Cryptography	3	С	2	2	1				
CYS3202	Digital Forensics	3	С	2	2			1		
CAP3201	Capstone Project-Part 1 (in Cyber security)	5	С	1			10	1		
CYS3203	Cyber Terrorism and Information Warfare	3	Е	2	2			1		
FND3201	Machine Learning	3	Е	2	2		1			
FND3202	Tensors and Graphs (with programming)	3	Е	2	2	1				
CMP3202	Cloud Application Development	3	Е	2	2	1				
	Total credits	17								

Year 04

Unit code	Unit name	Cre	Core/	Hours						
		Credits	Core/ Elective	Lectures	Practicals	Tutorials	Project work	Industry engagement		
Year 4 – Se	mester 1 (3 Core units + at least 2 E	Clectiv	ves)	1	1	<u> </u>				
CAP4101	Capstone Project-Part 2 (in Cyber security)	5	С	1			10	1		
FND4101	Research Methods and Academic Writing	3	С	2			3			
CLD4101	Cloud security and privacy	3	С	2	2			1		
SEC4101	Application Security	3	Е	2	2		1			
CYS4102	Intelligent Threat Management	3	Е	2	2		1			
CYS4103	Block chain and Applications	3	Е	2	2			1		
CMP4102	Internet of Things	3	Е	2	2			1		
CMP4104	Supercomputing and Quantum Computing	3	Е	2		1	2			
DAT4101	Big Data	3	Е	2	2	1				

	Total credits	17				
Year 4 – S	emester 2 (Mandatory Internship)					
PRF4201	Information Technology Internship (in	12	С		5	35
	Cyber security)					
	Total credits	12				

Total credits: 125/126, Duration: 4 years