Year 01

Unit code		C	Core	Core Hours							
	Unit name	Credits	Core/ Elective	Lectures	Practicals	Tutorials	Project	Industry			
Year 1 – S	emester 1										
CMP1101	Computer Systems	3	С	2	2	1					
PRF1101	Professional Practice	3	С	2			2	1			
FND1101	Mathematics for Computing (with Programming)	4	С	3	2	1					
PRF1102	Communication in Tech World	3	С	2	2			1			
CMP1102	Programming Concepts	3	С	2	2		1				
	Total credits	16									
Year 1 – S	emester 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	С	2	2	1					
FND1101	Probability & Statistics (with Programming)	4	С	3	2	1					
CMP1202	Data Technologies	3	С	2	2		1				
	Total credits	16									

Year 02

Unit code		Cre	Core/1			Hou	rs		
	Unit name	Credits	Core/Elective	Lectures	Practicals	Tutorials	Project work	Industry	
Year 2 – Seme	ester 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 – Seme	ester 2								
CMP2201	Data structures and algorithms	3	С	2	2	1			
PRO2201	Project Management	3	С	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	С	1	2		5		
	Total credits	16							

Year 03

Unit code		Cre	Core/1	Hours						
	Unit name	Credits	Core/ Elective	Lectures	Practicals	Tutorials	Project	Industry engagement		
Year 3 – Ser	mester 1 (3 Core units + at least 2 Elective	s)								
DES3101	Human Factors in Computer Systems	3	С	2	2			1		
PRO3101	Software Engineering Methods	3	С	2			2	1		
CMP3101	Artificial Intelligence	4	С	3	2	1				
DES3102	Mobile Application Development	3	Е	2	2		1			
DES3103	Immersive Technology Development	3	Е	2	2		1			
CMP3102	Data Warehousing	3	Е	2	2	1				
FND3102	Techniques in Social Media	3	Е	2			2	1		
CMP3102	Virtualisation and Containers	3	Е	2	2			1		
	Total credits	16								

Year 3 – Semester 2 (3 Core units + at least 2 Electives)									
DES3201	Software Architecture	3	С	2			2	1	
VAV3201	Software Quality Assurance	3	С	2	2			1	
CAP3201	Capstone Project-Part 1 (in Software Engineering)	5	С	1			10	1	
CMP3202	Cloud Application Development	3	E	2	2	1			
DES3201	SOA and Microservices	3	Е	2	2		1		
FND3201	Machine Learning	3	Е	2	2		1		
FND3202	Tensors and Graphs (with programming)	3	Е	2	2	1			
	Total credits	17							

Year 04

		Cre	Cre	Core/]	Hours					
Unit code	Unit name	Credits	Core/ Elective	Lectures	Practicals	Tutorials	Project	Industry		
Year 4 – S	Semester 1 (3 Core units + at least 2 Electi	ves)								
CAP4101	Capstone Project-Part 2 (in Software Engineering)	5	С	1			10	1		
DES4101	Advanced Software Design	3	С	2	2			1		
FND4101	Research Methods and Academic Writing	3	С	2			3			
CMP4101	Functional Programming	3	Е	2	2	1				
SEC4101	Application Security	3	Е	2	2		1			
CMP4102	Internet of Things	3	Е	2	2			1		
CMP4103	Service Integration and Management	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	Year 4 – Semester 2 (Mandatory Internship)									
PRF4201	Information Technology Internship (in Software Engineering)	12	С				5	35		
	Total credits	12								

Total credits: 126, Duration: 4 years