Cybersecurity full time - bachelor's degree

First course

First Semester						
Nº	Course	Hours	Final ExaM	Ongoing Assessment		
	Compulsory Courses					
1	Linear Algebra	60	X			
2	Web Design Basics	60	X			
3	Basics of Information and Communication Technologies	60	Х			
4	Applied Electrical Engineering and Electrical Measurements	60	Х			
5	English Language	60		X		
6	Physical Training and Sport	15				
	Elective Subjects					
1	English Language	60		X		
2	Teamwork	45		X		

Second Semester

Secon	1 Semester			
Nº	Course	Hours	Final ExaM	Ongoing Assessment
	Compulsory Courses			
1	Mathematical Analysis	60	Х	
2	Algorithmization and Programming Basics	60	Х	
3	Digital Electronics Basics	60	Х	
4	Computer Organization and Architecture	60	Х	
5	English Language	60		Х
6	Physical Training and Sport	15		X
	Elective Subjects			
1	English Language	60		X
2	Search Engine Optimization (SEO)	45		X
	Educational practice			
1	Practical Training 1	30		

Second course

Third Semester

Nº	Course	Hours	Final ExaM	Ongoing Assessment
	Compulsory Courses			
1	Discrete Structures	60		X
2	Windows Operating Systems	60	Х	
3	Cybersecurity Basics	60	X	
4	Introduction to Computer Networks	60	X	
5	Object-oriented Programming Basics	60	X	
	Elective Subjects			
1	English Language	120		X
	Educational practice			
1	Practical Training 2	30		X

Fourth Semester

Nº	Course	Hours	Final ExaM	Ongoing Assessment
	Compulsory Courses			
1	Operations Research	60		Х
2	Computer Networks: Routing and Switching	60	Х	
3	UNIX and Linux Operating Systems	60	X	
4	Database Design and Administration	60	X	
5	Cryptography and Cryptanalysis	60		X
6	Microprocessors and Microcontrollers	60	Х	
7	Course Project (on a second and third semester subject)	30		Х
	Elective Subjects			
1	English Language	120		Х

Third course

Fifth Semester

Nº	Course	Hours	Final ExaM	Ongoing Assessment
	Compulsory Courses			
1	Computer Networks: Scaling Networks	60	Х	
2	Administration of Windows Operating Systems	60	Х	
3	Databases: Big Data	60	Х	
4	Object-oriented Programming	60	Х	
5	Penetration testing	60		X
6	Computer Peripherals	45		X

Sixth Semester

Nº	Course	Hours	Final ExaM	Ongoing Assessment
	Compulsory Courses			
1	Computer Networks: Connecting Networks	60	X	
2	Internet Application Programming	60	Х	
3	Administration of UNIX and Linux Operationg Systems	60	Х	
4	Physical Protection Systems	60		X
5	Internet of Things (IoT), part 1	60	Х	
6	Course Project (on a fourth and fifth semester subject)	30		X
_	Educational practice			
1	Internship			X

Fourth course

Seventh Semester

Nº	Course	Hours	Final ExaM	Ongoing Assessment
	Compulsory Courses			
1	Network Security Basics	60	X	
2	Virtualization Systems	60	X	
3	Software Security and Reengineering	60	X	
4	Database Security	60	X	
5	Methods and Means of Authentication	60		X
6	Course Project (free choice topic)	30		X
	Elective Subjects			
1	Internet of Things - IoT - II част	60		X

Eight Semester

Nº	Course	Hours	Final ExaM	Ongoing Assessment
	Compulsory Courses			
1	Forensics and Cybersecurity Risk Management	60	X	
2	Cybersecurity Audit and Certification	60	X	
	Elective Subjects			
1	Web-based Systems Security	45	X	
2	Cloud technologies	45	X	
3	Mobile Device Programming and Security	45	X	
4	Cybersecurity Incident Management	45		X
5	Ethical Hacking	45		X