

University of  
Telecommunications  
and Post

Faculty: FACULTY OF TELECOMMUNICATIONS AND  
MANAGEMENT  
Department: INFORMATION TECHNOLOGIES  
Professional Field: 5.3.Communication and Computer  
Engineering  
Specialty: CYBERSECURITY IN COMMUNICATION  
TECHNOLOGY  
Educational-qualification degree: BACHELOR

1 semester – 15 weeks			
Compulsory courses			
Hom.		ECTS	
1	Engineering Mathematics 1	5	
2	Operating Systems	5	
3	Computer Architectures	5	
4	Electronics	5	
5	Physical Training	0	
Optional courses		5	
1	Materials and Electronic Components		
2	Fundamentals of Information Technology		
3	Fundamentals of Security		
Facultative courses		5	
1	<b>English Language 1</b>		
2	German Language 1		
Total Commitments for the 1st semester:		30	
2 semester – 15 weeks			
Compulsory courses			
Hom.		ECTS	
1	Engineering Mathematics 2	5	
2	Database Management Systems	5	
3	Fundamentals of Programming	5	
4	Networks and Protocols 1	5	
5	Physical Training	0	
Optional courses		5	
1	Fundamentals of Electrical Engineering		
2	Workshop on Information Technology		
3	E-management in Crisis		
Facultative courses		5	
1	<b>English language 2</b>		
2	German language 2		
Total Commitments for the 2nd semester:		30	
3 semester – 15 weeks			
Compulsory courses			
Hom.		ECTS	
1	Signals and Systems	5	
2	Networks and Protocols 2	5	

3	Windows Fundamentals	5	
	Optional courses 1	5	
1	Fundamentals of Economics		
2	Digital Economy		
	Optional courses 2	5	
1	Fundamentals of Telecommunications		
2	Abstract Data Structures		
3	Cyber Threats and Cyber Crises		
	Optional courses 3	0	
	Physical Training		
	Facultative courses	5	
1	English language 3		
2	German language 3		
	Total Commitments for the 3rd semester:	30	

4 semester – 15 weeks			
Compulsory courses			
Hom.		ECTS	
1	Computer Design	5	
2	DBMS Languages	5	
3	OS Linux	5	
	Optional courses 1	5	
1	Fundamentals of Management		
2	Corporate Social Responsibility		
	Optional courses 2	5	
1	Digital Signal Processing		
2	Cloud Technologies		
3	IT Security		
	Optional courses 3	5	
1	Optical Networks		
2	Object Oriented Programming		
3	Information Security Standards		
	Facultative courses	0	
1	Physical Training		
	Total Commitments for the 4th semester:	30	

5 semester – 15 weeks			
Compulsory courses			
Hom.		ECTS	
1	Applied Cryptography	5	
2	Signaling Security Equipment	5	
3	Fake News and Counteraction	5	
4	Multimedia Technologies	5	
5	Presentation and Communication Skills	5	
	Optional courses	5	
1	Wireless Network Security		
2	Technical Security Systems		
	Total Commitments for the 5th semester:	30	

6 semester – 15 weeks			
Compulsory courses			
Hom.		ECTS	
1	Artificial Intelligence	5	
2	Security Policies	5	
3	Information Security	5	
4	Security of Electronic Payment Cards	5	
5	Information Security in E-commerce	5	
Optional courses		5	
1	Surveillance Systems		
2	Access Control Systems		
Total Commitments for the 6th semester:		30	
7 semester – 15 weeks			
Compulsory courses			
Hom.		ECTS	
1	Telegraphic Design	6	
2	Information Funds and Protection of Classified Information	6	
3	Personal Data Protection	6	
4	Corporate Networks	6	
Optional courses		6	
1	Cyber Security Prevention		
2	Security of Electronic Transactions		
Total Commitments for the 7th semester:		30	
8 semester – 15 weeks			
Compulsory courses			
Hom.		ECTS	
1	Protection of Digital Television Systems	5	
2	Digital Investigations and Evidence	5	
3	Cyber Crime and Society	5	
4	Firewalls	5	
Total Commitments for the 8th semester:		20	
Thesis work			
State exam / Diploma defense		10	
