INTRODUCTION TO CYBER SECURITY

1	Course Title:	INTRODUCTION TO CYBER SECURITY
2	Course Code:	BLPS241
3	Type of Course:	Optional
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr. Gör. AYŞE BAŞTUĞ KOÇ
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	aysebastugkoc@uludag.edu.tr, +902242942677, Bursa Uludağ Üniversitesi Gemlik Asım Kocabıyık MYO Bilgisayar Programcılığı-Gemlik/Bursa
17	Website:	
18	Objective of the Course:	With this course, it is aimed to be able to recognize the basic concepts and principles of cyber security, to understand the security vulnerabilities/threats existing in information systems, and to raise awareness about the precautions to be taken against cyber attacks.
19	Contribution of the Course to Professional Development:	It provides awareness of paying more attention to cyber security elements and taking precautions in corporate business life.
20	Learning Outcomes:	

		1	Be able to express technical, social and legal concepts in the field of cyber security.
		2	Understands certain security services and protocols, especially encryption basics.
		3	Analyze cyber attacks on information systems.
		4	Awareness is created about the precautions to be taken against cyber attacks.
		5	
		6	
		7	
		8	
		9	
		10	

21	Course Content:	

Course Content:		
Week	Theoretical	Practice
1	Cyber Security Overview	
2	Cyber Security Awareness, Its Importance and What To Do	
3	Cyber War, Cyber Terrorism Concepts	

4	Cyber Attack Methods, Information Gathering Tools	
5	Social Engineering	
6	Encryption Science and Techniques	
7	Steganography and Techniques	
8	An overview and Midterm	
9	Security of Data, Networks and Devices	
10	Malware and Analysis	
11	Authentication Methods, Social Media Security, E-Mail and Web Browser Security	
12	Infiltration Detection, Security Tools	
13	Legal Dimension of Cyber Security and IT Law	
14	Career in Cyber Security	
22	Textbooks, References and/or Other Materials:	
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Contribution of Term (Year) Learning Activities to Success Grade / Theoretical	40,00 / 14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Contribution of Final Exam to Success Grade / Self study and preperation	60,00 / 14	2.00	28.00
Total	100,00		
Homeworks	14	2.00	28.00
Measurement and Evaluation Techniques Used in the Course / Projects	A midterm and a final exam will be held to check the students' learning in the course / 0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	3.00	3.00
Others	0	0.00	0.00
Final Exams	1	3.00	3.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	3	0	2	0	3	3	0	2	0	0	0	0	0	0	0
ÖK2	2	1	0	0	0	3	2	0	0	0	0	0	0	0	0	0
ÖK3	3	2	0	0	0	3	2	0	0	0	0	0	0	0	0	0
ÖK4	3	2	0	0	0	3	2	0	0	0	0	0	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High