Course title			Code	semester	T+U	credit	ECTS			
			YM506	6	3+0	3	4			
Prerequisite	Courses	None								
Language of the Course		English								
			Undergraduate							
V 1		Optional								
	Course Coordinator									
Instructors										
Course Assis										
The aim of le			tudents to apply their knowledge and skills to analyze cyber security and oblems and to design appropriate solutions to solve related engineering							
the k then Sym / TI secu		the knowledge them. Basic de Symmetric / a: / TLS (HTTP secure protoc	It will introduce the real-world cybersecurity challenges organizations face and use the knowledge and skills gained through other Computer Science courses to address them. Basic definitions of cyber security, an overview of cyber threats. Cryptology, Symmetric / asymmetric encryption, PKI, CA trust model, SSL / TLS (HTTPS, SFTP, etc.). Building a solid background on authentication and secure protocols. Message authentication, digital signature, digital certificates, authentication and Hash Functions.							
Course Learning Outcomes		Students who successfully complete this course; 1. Basic definitions of cyber security, an overview of cyber threats 2. They will learn network attacks, security of basic network services, and cyber threat prevention mechanisms. 3. Will be able to build a solid background on authentication and secure protocols.								
Weeks	Topics									
one	Introduction to Web Security									
2	Basic definitions of cybersecurity, an overview of cyber threats									
3	Symmetric encryption									
4	Asymmetric 6									
5		-				4				
6	Network attacks, security of essential network services, cyber threat prevention mechanisms									
7	network computing									
	Penetration testing methodologies and tools									
8	Penetration testing methodologies and tools									
9	Message verification code and digital signature									
10	Secure transport and application layers protocols Wireless security									
11th	Email security									
12	Attacks and Malware									
13										
14	Risk management and security policy									
15	Project presentations and discussion									
Project presentations and discussion General Competencies										
They will have the necessary knowledge for cyber threat prevention mechanisms, network forensics and web application security.										
resources										
Mansur Hasib	Mansur Hasib "Powering the Modern Organization 3rd Edition", Cybersecurity Leadership, 2014									
Andreasson,	Kim J., ed ., " (Cybersecurity ",	public sector		esponses . (CRC press , 20)11.			
Diamandi Oysum										

The dates, days and hours of the Midterm, Quiz, Final Exam and Evaluations will be announced later, according to the decision of the Faculty Administrative Board.

	WITH PROGRAM LEARNING OUTCOMES COURSE LEARNING OUTCOMES RELATIONSHIP TABLE											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	
LO1	4	5	5	5	4	4	4	5	5	4	4	
LO2	3	4	4	4	5	3	3	3	5	4	3	
LO3	5	5	5	5	5	3	5	4	4	3	3	
LO: Learning Outcomes OP: Program Outcomes												
Contri bution Level	1 Very Low		2 Low		3 Media	3 Medium		4 High		5 Very High		

Relation of Program Outcomes and Related Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Introduction to Software Engineering	4	5	5	4	5	3	4	4	5	4	3