Course Syllabus

Code - Course Title	**VBA410 - Cyber Security**
Course Type	VIII. SEMESTER
Laboratory + Practice	2+0
ECTS	**4.0**
Language of Instruction	İngilizce
Course Type	Area Elective Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ ÖNDER DORAK

Mode of Delivery	Face-to-face

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Network Security: Configuring hardware/software firewalls	
Week - 2		Intrusion detection and prevention systems (IDS/IPS)	
Week - 3		Applying modern cryptography protocols	
Week - 4		Threat Modeling: Vulnerability assessments	
Week - 5		Analyzing malicious software behavior	
Week - 6		Mitigating social engineering and phishing attacks	
Week - 7		Security Governance: Risk management frameworks	
Week - 8		Developing robust incident response plans	
Week - 9		Designing zero-trust enterprise network architectures	
Week - 10		Data Protection: Securing databases against exploits	
Week - 11		SQL injection prevention	
Week - 12		Strictly managing user access controls	
Week - 13		Compliance with data breach notification laws	
Week - 14		Global privacy mandates implementation	

Learning Outcomes

#	Learning Outcome
1	Configure robust network hardware and software firewalls
2	Mitigate devastating social engineering and malware attacks

Learning Outcomes

#	Learning Outcome
3	Design actionable incident response plans and zero-trust architectures
4	Secure databases ensuring absolute compliance with breach laws

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.