Course Syllabus

Code - Course Title	**VBA408 - Advanced Web Technologies**
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		Frontend Development: Modern JavaScript frameworks	
Week - 2		Utilizing React for state management	
Week - 3		Utilizing Vue for reactive interfaces	
Week - 4		Responsive interface design principles	
Week - 5		Backend Architectures: Node.js and Python servers	
Week - 6		Serverless functions implementations	
Week - 7		RESTful API design	
Week - 8		GraphQL API design	
Week - 9		Web Security: Protection against XSS	
Week - 10		Mitigating CSRF vulnerabilities	
Week - 11		JWT authentication and Data protection	
Week - 12		Deployment and Hosting: Cloud hosting management	
Week - 13		DNS and SSL configurations	
Week - 14		Content Delivery Network (CDN) integration	

Learning Outcomes

#	Learning Outcome
1	Design responsive frontend interfaces utilizing modern JavaScript
2	Deploy scalable serverless RESTful and GraphQL backend APIs

Learning Outcomes

#	Learning Outcome
3	Protect applications utilizing robust JWT and CSRF protocols
4	Configure seamless cloud hosting environments and DNS setups

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.