Course Syllabus

Code - Course Title	**VBA103 - Calculus**
Course Type	I. SEMESTER
Laboratory + Practice	4+0
ECTS	**6.0**
Language of Instruction	İngilizce
Course Type	Required Courses
Course Instructor(s)	ARAŞ. GÖR. SAMET BİLA

Mode of Delivery	Face to face

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Evaluating limits and Asymptotic behavior	
Week - 2		Continuity laws and L'Hôpital's rule	
Week - 3		Rules of differentiation	
Week - 4		Implicit differentiation	
Week - 5		Applications of derivatives in optimization	
Week - 6		Rate of change analysis	
Week - 7		Definite and indefinite integrals	
Week - 8		Area under curves	
Week - 9		Volumes of revolution	
Week - 10		Fundamental theorem of calculus	
Week - 11		Advanced Calculus: Sequences	
Week - 12		Advanced Calculus: Series	
Week - 13		Taylor polynomials	
Week - 14		Partial derivatives	

Learning Outcomes

#	Learning Outcome
1	Evaluate limits and apply continuity laws
2	Apply rules of differentiation

Learning Outcomes

#	Learning Outcome
3	Calculate definite and indefinite integrals
4	Analyze sequences, series, and Taylor polynomials

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.