Course Syllabus

Code - Course Title	**MAT833 - Calculus III**
Course Type	III. SEMESTER
Laboratory + Practice	3+0
ECTS	**4.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ GONCA İNCEOĞLU, PROF. DR. MURAT KOPARAN

Mode of Delivery	The mode of delivery of this course is face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	None
Recommended Resources	Yalcınkaya, İ.,(2012), Analiz III, Konya: Dizgi Ofset
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		The concept of sequence and applications of this concept.	
Week - 2		The concept of series.	
Week - 3		Series of positive terms: Converges and diverges in series	
Week - 4		Series of positive terms: Converges and diverges in series	
Week - 5		Criteria of convergence	
Week - 6		Alternating series	
Week - 7		Power series.	
Week - 8		Taylor series	
Week - 9		Applications of Taylor series in daily life.	
Week - 10		Fuction sequences and series	
Week - 11		Pointwise and uniform convergence of sequences and series of functions	
Week - 12		Generalized convergence tests.	
Week - 13		Fourier series	
Week - 14		Fourier Series	

Learning Outcomes

#	Learning Outcome
1	explain the sequence concept.
2	express the series concept.
3	explain the concept of function series.
4	explain the concept of Taylor series.
5	express Fourier series.

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.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	40
Final Exam	1	60
	Sum (%)	**100**