Course Syllabus

Code - Course Title	**MTE520 - General Mathematical Concepts**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ GONCA İNCEOĞLU

Mode of Delivery	Distance Learning
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	None
Recommended Resources	• Karaçay, T. (2009) Soyut Matematiğe Giriş, Seçkin yayınları.• Karaçay, T. (2016) Soyut Matematik, Seçkin yayınları.• Başkan T., Bizim O. ve Cangül İ.N. (2006) Metrik Uzaylar ve Genel Topolojiye Giriş, Nobel Akademik Yayıncılık• Balcı M. (2006) Genel Matematik, Balcı Yayıncılık• Koçak M. (2010) Genel Matematik Diferansiyel ve İntegral Hesap, AC Kardeşler MatbaaYayncılık• Yalçınkaya İ. (2012) Analiz III :Diziler ve Seriler, Dizgi Ofset• Thomas G.B., Weir M. V Hass J. (2011) Çev. Ed. Bayram M. Thomas Kalkülüs, Pearson• Bizim O., Tekcan A. Ve Gezer B. (2014) Genel Matematik I, Dora Yayıncılık• Kabael T. (2017) Genel Matematiksel Kavramlar, Pegem Akademi

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Sets, Finite sets, İnfinite sets, Countable sets	
Week - 2		Natural numbers set , Integers set	
Week - 3		Rational numbers set, Reel numbers set	
Week - 4		Absolute Value and Some Important Inequalities	
Week - 5		The Concept of Relation: The relation properties	
Week - 6		Partial ordering, Exact order relations	
Week - 7		The Concept of Functions: Single variable functions	
Week - 8		The Concept of Functions: Properties of Single variable functions	
Week - 9		Function concept with pedagogical aspects	
Week - 10		Limit of the single variable functions and Limit concept with pedagogical aspects	
Week - 11		Continuity of the single variable functions	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 12		Derivative of The Single Variable Functions: Derivative concept with pedagogical aspects	
Week - 13		Sequence Concept and its convergence	
Week - 14		Serie Concept and its Convergence. .	

Learning Outcomes

#	Learning Outcome
1	Define the concept of set
2	Define the relation concept
3	Define the concepts of single variable function and limit and continuity of single valued function.
4	Define the derivative concept of single variable functions
5	Define the sequence and serie concepts

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.