Course Syllabus

Code - Course Title	**MAT161 - Mathematics I**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Required Courses

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	There is no recommended optional programme component for this course.
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Numbers, Real number system, Relation and Function, Properties of Functions	
Week - 2		Polinomial functions, Linear function, second-order functions, graphing of piece-wise defined functions, Exponential and Logaritmic function, Applications of exponential function	
Week - 3		Slope of the line, Line Equation, Intercept of two lines	
Week - 4		Linear inequality and linear inequality systems	
Week - 5		Limit of a function, right-side and left-side limit, limit properties on functions	
Week - 6		Derivative of one-variable functions, derivative rules	
Week - 7		Applications of derivative; Increasing and decreasing functions, finding of maximum and minimum points, second-order derivative and concavity,finding of twist point	
Week - 8		Undetermined forms on limits	
Week - 9		Graphing of a function	
Week - 10		Graphing of a function,Multi-variable functions	
Week - 11		Three-Dimension Coordinate System	
Week - 12		Second-order partial derivation	
Week - 13		Extremas of two-variable functions	
Week - 14		Constrained Optimization	

Learning Outcomes

#	Learning Outcome
1	Variables to define the relationship between the functional cluster operations on intervals.
2	Able to examine analytically and in practice to explain the truth.
3	Real valued function at a point adjacent to the limit and a point to define the behavior.
4	Çok to investigate the behavior of a function variable.

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.