Course Syllabus

Code - Course Title	**MAT162 - Mathematics II**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**5.0**
Language of Instruction	İngilizce
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.
Recommended Resources	George B. Thomas, Ross L. Finney, Maurice D. Weir(2001)Calculus and Analitic Geometry 1,
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Indefinite integral; Fundamental integral formulations and laws, Applications of undefinite integral	
Week - 2		Definite integral, properties of definite integral	
Week - 3		Fundamental theorem of calculus	
Week - 4		Applications of definite integral	
Week - 5		Integral Techniques, variable transformation, decomposition method of simply fractions	
Week - 6		Area calculation	
Week - 7		Net change, Average value	
Week - 8		İntegration by parts	
Week - 9		Functions of several variables	
Week - 10		Partial derivatives	
Week - 11		Absolute maximum and absolute minimum values	
Week - 12		Matrices, determinants and inverse of square matrice	
Week - 13		Matrices and linear systems	
Week - 14		The general review	

Learning Outcomes

#	Learning Outcome
1	Can compute indefinite integral of a function.
2	compute defined integral of a function and analyze the area of plane figures.
3	investigate the existence of solutions of linear equation systems and analyze.

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.