Course Syllabus

Code - Course Title	**MAT162 - Mathematics II**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. BAHAR BERBEROĞLU, PROF. DR. NESRİN ALPTEKİN, PROF. DR. NAMIK KEMAL ERDOĞAN, DR. ÖĞR. ÜYESİ BİLAL SARAÇ

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		Indefinite integral; Fundamental integral formulations and laws, Applications of undefinite integral	
Week - 2		Definite integral, properties of definite integral, Areas of plane figures	
Week - 3		Area between two curves, mean value of continuous functions	
Week - 4		Applications of definite integral, excess supply, excess demand, Lorenz curve	
Week - 5		Integral Techniques, variable transformation, partial integration, decomposition method of simply fractions	
Week - 6		Approximate integration, Improper integrals	
Week - 7		Basic matrix notion, special matrices, matrix operations	
Week - 8		Determinant of a square matrix,	
Week - 9		Mıdterm week	
Week - 10		Mıdterm week	
Week - 11		Properties of determinant, inverse of a square matrix	
Week - 12		Linear equations systems, solving methods of linear equation systems	
Week - 13		Input-Output Analysis, Constructing and solving of model	
Week - 14		Linear programming, Graphical Solving of Linear programming problems	

Learning Outcomes

#	Learning Outcome
1	compute indefinite integral of a function.
2	compute defined integral of a function and analyze area of plane figures.
3	search existence the 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.