Course Syllabus

Code - Course Title	**MAT294 - Linear Algebra II**
Course Type	IV. SEMESTER
Laboratory + Practice	3+0
ECTS	**4.0**
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	None
Recommended Resources	Gerald L. Bradlry (1975) A Primer Of Linear Algebra. London: Prentice-Hall.
Work Placement	N/A

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Base and dimension of vector space	
Week - 2		Base and dimension of vector space	
Week - 3		Linear Transformations	
Week - 4		Linear Transformations	
Week - 5		Matrix representation of a Linear Transformation	
Week - 6		Matrix representation of a Linear Transformation	
Week - 7		Matrix representation of a Linear Transformation	
Week - 8		Eigenvalues and Eigenvectors	
Week - 9		Eigenvalues and Eigenvectors	
Week - 10		Diagonalization of a Matrix	
Week - 11		Diagonalization of a Matrix	
Week - 12		Daigonalization of Symmetric Matrices	
Week - 13		İnner-Product Spaces	
Week - 14		İnner-Product Spaces	

Learning Outcomes

#	Learning Outcome
1	Explains the concepts of base and dimension of vector space.
2	Explains some functions defined between vector spaces.
3	Explains matrix representation of a linear transformation.
4	Explains eigenvalues and eigenvectors of a linear transformation.
5	Explains concepts of inner product on vector spaces.

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.