Course Syllabus

Code - Course Title	**MAT318 - Matrix Analysis**
Course Type	V. SEMESTER
Laboratory + Practice	3+0
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Area Elective Courses
Course Instructor(s)	DOÇ. DR. NEZAHAT ÇETİN

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	MAT203Linear Algebra I, MAT204 Lineer Algebra II
Recommended Resources	*Horn, R.,Johnson C:(2000) Topics in matrix analysis,Cambr.Ün.Press, 600p
Work Placement	N/A

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Vector spaces	
Week - 2		Matrices and determinants	
Week - 3		Special matrices	
Week - 4		Eigenvalues and eigenvectors	
Week - 5		Applications	
Week - 6		Diagonalization	
Week - 7		Simultaneously diagonalization	
Week - 8		Commutative matrix families	
Week - 9		Unitary eqivalence	
Week - 10		Corollaries	
Week - 11		Canonical forms	
Week - 12		Jordan Canonical form	
Week - 13		Applications	

Learning Outcomes

#	Learning Outcome
1	recognize new types of matrices
2	explain new properties of eigenvalues
3	analyse the diagonal form of matrices
4	explain canonical forms of matrices

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.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	20
Final Exam	1	50
2.Midterm Exam	1	30
	Sum (%)	**100**