Course Syllabus

Code - Course Title	**İKT237 - Mathematical Economics I**
Course Type	III. SEMESTER
Laboratory + Practice	3+0
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. LEVENT ERDOĞAN, DOÇ. DR. AYŞEGÜL ŞAHİN

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	Chiang, Alpha and Wainwright Kevin , Fundamental Methods of Mathematical Economics, McGraw-Hill, 2005.
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Definition of Mathematical Economics	
Week - 2		Linear Economic Functions	
Week - 3		Definition of Derivative	
Week - 4		Univariate Calculus	
Week - 5		Optimization	
Week - 6		Univariate Optimization	
Week - 7		Univariate Optimization	
Week - 8		Partial Derivative	
Week - 9		Partial Derivative	
Week - 10		Partial Derivative	
Week - 11		Partial Derivative	
Week - 12		Partial Derivative	
Week - 13		Partial Derivative in Multivariable Functions and Its Economic Applications	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Partial Derivative in Multivariable Functions and Its Economic Applications	

Learning Outcomes

#	Learning Outcome
1	Understand and apply mathematical techniques of linear algebra and optimization in economic models
2	Analyze and understand mathematical models of microeconomic and macroeconomic theories
3	Recognize relevant variables and parameters for economic models can be used and interpreted

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	40
Final Exam	1	60
	Sum (%)	**100**