Course Syllabus

Code - Course Title	**FİN560 - Game Theory for Finance**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DOÇ. DR. HAKAN ULUCAN

Mode of Delivery	Face to face education.
Prerequisites	None.
Courses Recomended	None.
Recommended Resources	A Guide to Game Theory
Work Placement	None

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Basic Definitions	
Week - 2		Introduction to Game Theory: Fundamental Terms and Ideas	
Week - 3		Two Person Games; Nash Equilibrium	
Week - 4		Two Person Games; Nash Equilibrium 2	
Week - 5		Duopoly Strategies and Prices	
Week - 6		Mixed Strategy: Nash Equilibria	
Week - 7		Mixed Strategy: Nash Equilibria 2	
Week - 8		Multi-Person Games; Sequential Games	
Week - 9		Uncertainty and Asymmetric Information	
Week - 10		Subgame perfect equilibrium	
Week - 11		Repeated Games; Examples and applications in an industrial organization	
Week - 12		Repeated Bargaining; Subgame perfect equilibrium	
Week - 13		Repeated Games; Examples and applications in industrial organization	
Week - 14		Repeated Games; Examples and applications in industrial organization 2	

Learning Outcomes

#	Learning Outcome
1	Knows decision problems. Distinguish Decision Environments. Classifies decision environments. Knows the structure of Decision Problems. Knows Game Theory. Solves Game Problems. Knows Decision Tree. Knows Utility Functions.

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.