Course Syllabus

Code - Course Title	**SAY614 - Sequential Decision Making**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DOÇ. DR. ŞENAY LEZKİ

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	1. CLEMEN, Robert T. Making Hard Decision. Second Edition. USA: Duxbury Press, 1996.2. ALBRIGHT, S.Christian, WINSTON, Wayne L. ve ZAPPE, Christopher. Data Analysis&Decision; Making. Third Edition. USA:Thomson South-Western, 2006.3. MEREDITH, Jack, SHAFER, Scott ve TURBAN, Efraim. Quantitative Business Modeling. USA: South-Western Thomson Learning, 2002.
Work Placement	N/A

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to Decision Process and Basic Concepts	
Week - 2		Decision Making Under Certainty and Development of Mathematical Model	
Week - 3		Solving Decision Problems Under Certainty with Excel Solver Module	
Week - 4		Decision Making Under Uncertainty and Decision Criteria Used in Under Uncertainty	
Week - 5		Decision Making Under Risk and Decision Criteria Used in Under Risk	
Week - 6		Introduction to Graphical Techniques Used in Sequential Decision Making	
Week - 7		Sequential Decision Making with Using Decision Trees	
Week - 8		Using Bayes' Theorem in Decision Tree Technique	
Week - 9		Sequential Decision Making with Using Influence Diagram	
Week - 10		Dynamic Programming	
Week - 11		Multi Criteria Decision Making Techniques : Analytic Hierarchy Process (AHP)	
Week - 12		Multi Criteria Decision Making Techniques : Analytic Network Process (ANP)	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 13		Multi Criteria Decision Making Techniques : Technique for Order Preference by Similarity to Ideal Solution (TOPSIS)	
Week - 14		Multi Criteria Decision Making Techniques : Elimination and Choice Expressing Reality (ELECTRE)	

Learning Outcomes

#	Learning Outcome
1	define different decision environment and apply the decision criteria.
2	apply the decision graphical techniques to sequential decision making problems
3	use multi-criteria decision making techniques

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.