Course Syllabus

Code - Course Title	**İST435 - Linear Programing**
Course Type	VII. SEMESTER
Laboratory + Practice	3+0
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ MAHMUT ATLAS, PROF. DR. ALİ ÖZDEMİR, PROF. DR. NESRİN ALPTEKİN

Mode of Delivery	The mode of delivery of this course is Face to face
Prerequisites	Mathematics II
Recommended Resources	* Taha, H.(1997), Operation Research an Intrıduction,Prectice - Hall Inter. Inc.*Winston, W.L., (1994), Operation Research Application and Algorithms, Duxbury Press
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		System and system approach, decision process and decision environment	
Week - 2		Introduction to linear programming	
Week - 3		Model formulation in linear programming	
Week - 4		Graphical method for the solution of linear programming	
Week - 5		Simplex method of Linear Programming Problems	
Week - 6		Simplex Big-M method	
Week - 7		Max Problems of Simplex Moethod	
Week - 8		Min. Peroblems of Simlex Method	
Week - 9		Special Cases in Simplex Method Application	
Week - 10		Dualite	
Week - 11		Sensitivity Analysis	
Week - 12		Transportation Models	
Week - 13		Optimal Solition of Transportation Problems	
Week - 14		Assigment Models	

Learning Outcomes

#	Learning Outcome
1	will be able describe quantitative methods used in decision making.
2	explain the applications of linear programming.
3	explain transportation model solution methods.

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.