İçerik

Ders Kodu	Dersin Adı	Yarıyıl	Teori	Uygulama	Lab	Kredisi	AKTS
MATH 526	Çizgiler Kuramı	2	3	0	0	3	7

Ön Koşul	
Derse Kabul Koşulları	

Dersin Dili	İngilizce		
Türü	Seçmeli		
Dersin Düzeyi	Yüksek Lisans		
Dersin Amacı	This course aims to introduce the basic concepts, topics and results of Modern Graph Theory with a target of techniques that are applicable in especially social sciences.		
İçerik	Basic graph theoretical concepts: paths and cycles, connectivity, trees, spanning subgraphs, bipartite graphs, Hamiltonian and Euler cycles. Algorithms for shortest path and spanning trees. Matching theory. Planar graphs. Colouring. Structural properties of large graphs: degree distributions, clustering coefficients, small world networks. Applications in social sciences and biology.		
Kaynaklar	Graph theory, Diestel, Reinhard., 4th ed.: Heidelberg: Springer, 2010. Graph Theory with Applications, Bondy.and Murty, North-Holland, 1979 Graph Based Natural Language Processing and Information Retrieval / Rada Mihalcea, Dragomir Radev, Cambridge University Press, 2011. Discrete Mathematics, An Open Introduction, Oscar Levin, at http://discretetext.oscarlevin.com/ Proof Techniques in Graph Theory, Harary, F., Academic Press, New York, 1969. New Directions in the Theory of Graphs, Harary, F., Academic Press, New York, 1973.		

Teori Konu Başlıkları

Hafta Konu Başlıkları