

King Fahd University of Petroleum and Minerals
Department of Mathematics & Statistics
Syllabus Math 525
AY: 2022-2023 (T222)
Dr. Othman Echi
Office :102-4 Building 5

Title: Graph Theory

Textbook: Graph Theory by J.A. Bondy U.S.R. Murty, 2008.

Description: Review of basic concepts of graph theory. Connectivity, matching, factorization and covering of graphs, embeddings, edge, and vertex coloring. Line graphs. Reconstruction of graphs. Networks and algorithms.

Office Hours: Every Monday from 10:00 to 11:00 AM

Grading Policy:

Exam 1	Exam 2	Exam 3	HW	Presentations	Final Exam
20%	20%	20%	5%	5%	30%
March 05, 2023	March 21, 2023	tba			tba

Week	Chapter	Topics
1,2	1	Graphs
3,4	2	Subgraphs
5	3	Connected Graphs
6,7	4	Trees
8,9	9	Connectivity
10	10	Planar Graphs
11	11	The Four-Colour Problem
12	14	Vertex Colourings
13	16	Matchings
14	17	Edge Colourings
15	18	Hamilton Cycles