Schedule

A week-by-week breakdown of the material.

Week 1

Day 1 Introduction

Day 2 Graphs, Euler Circuits, Valence[1]

Day 3 Hamiltonian Circuits, Complete Graphs[2]

Day 4 Traveling Salesman Problem[3]
Minimum Cost Spanning Trees[4]

Day 5 Directed Graphs, Critical Paths[5]

Week 2

Day 1 Priority Lists, Scheduling, Independent Tasks[6]

Day 2 Bin-packing, Vertex-Coloring[7]

Day 3 MIDTERM 1

Day 4 Linear Programming, Mixture Problems[8]
Corner Point Principle[9]

Day 5 Transportation Problems, Tableaux[10]

Week 3

Day 1 Voting Systems, Majority Rules[11]

---

[1] notes/graphs_euler.html
[2] notes/graphs_hamiltonian.html
[3] notes/graphs_tsp.html
[4] notes/graphs_mst.html
[5] notes/graphs_directed.html
[6] notes/scheduling.html
[7] notes/bin_packing.html
[8] notes/linear.html
[9] notes/corner_point.html
[10] notes/tableaux.html
[11] notes/voting_majority.html

Day 2 Voting with more than 3 candidates[12]

    Arrow's theorem[13]

Day 3 Manipulability[14]

    Impossibility, Chair's Paradox[15]

Day 4 MIDTERM 2

Day 5 Error-Correcting, Identification Numbers[16]

Week 4

Day 1 Binary Codes, Parity Check[17]
Day 2 Data Compression[18]
Day 3 Cryptography[19]
Day 4 Wrap-up
Day 5 MIDTERM 3

---

[12]notes/voting_more_candidates.html
[13]notes/voting_arrow.html
[14]notes/voting_manipulability.html
[15]notes/voting_chairs.html
[16]notes/codes_ecc.html
[17]notes/codes_binary.html
[18]notes/codes_compression.html
[19]notes/crypto.html