MA859  Algebraic Graph Theory  4 0 0 4  

Syllabus:
Adjacency matrix of a graph and its eigenvalues, Spectral radius of graphs, Regular graphs and Line graphs, Strongly regular graphs, Cycles and Cuts, Laplacian matrix of a graph, Algebraic connectivity, Laplacian spectral radius of graphs, Distance matrix of a graph, General properties of graph automorphisms, Transitive and Arc-transitive graphs, Symmetric graphs. Text Books / Reference Books: