

IT-415 : Graphs. Networks and Concepts of System Sciences Objective:

Topics to be covered: Graphs, Networks and concepts of system sciences, Introduction to graph algorithms, Spanning Trees, DAGs, Shortest paths, Depth-and-Breadth First search, Random networks, Power law. Graph Matrix implementations, Network, flows

Reference Books:

Narsingh Deo, *Graph Theory with applications to engineering and computer science*, Prentice Hall (India).