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UNIT III

Markovian FIFO Queuing Systems – M/M/1 – M/M/a – M/M/∞ - M/G/1 – M/M/m/m and other Markov – Non – Markovian and self – similar models – Network of Queues – Burke’s Theorem – Jackson’s Theorem.

UNIT IV

Multi- User Uplinks/Downlinks – Capacity Regions – Opportunistic Scheduling for Stability and Max Throughput – Multi-hop routing – Mobile Networks – Throughput Optimality and Backpressure

UNIT V

Performance of Optimal Lyapunov Networking – Energy Optimality – energy – Delay Tradeoffs – Virtual Cost Queues – Average Power Constraints – Flow Control with Infinite Demand – Auxiliary Variables – flow Control with Finite Demand – General Utility Optimization.

TEXT BOOKS

1. James D.McCabe, Network analysis, Architecture and Design, 2nd Edition, Elsevier, 2003.
2. Bertsekas & Gallager, Data Networks, second edition, Pearson Education, 2003.
3. Introduction to Probability Models by Sheldon Ross (8th edition) Academic Press, New York, 2003.

REFERENCES

1. D. Bertsekas, A. Nedic and A. Ozdaglar, Convex Analysis and Optimization, Athena Scientific, Cambridge, Massachusetts, 2003.
2. Nader f. Mir Computer and Communication Networks, Pearson Education, 2007.
3. Paul J.Fortier, Howard E.Michel, Computer Systems Performance Evaluation and Prediction, Elsevier, 2003.
4. Thomas G. Robertazzi, “Computer Networks and Systems Queuing Theory and Performance Evaluation” 3rd Edition Springer, 2000.

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ADVANCED ALGORITHMS

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UNIT I INTRODUCTION 9

Mathematical Background - Design and Analysis of algorithms – Time and Space Complexity - Basic concepts

UNIT II SORTING AND ORDER STATISTICS 9

Internal sort algorithms - Analysis - Worst-case - Average case - Sorting in Linear Time - Medians and order statistics - Augmenting Data Structures - Red Black Trees – Dynamic - Order Statistics - FFT - Algorithm - Implementation.

UNIT III DESIGN TECHNIQUES 9

Divide and Conquer - Dynamic Programming - Greedy method - Backtracking – Branch & Bound – Classical examples - Analysis.

UNIT IV GRAPH AND PARALLEL ALGORITHMS 9

Graphs - Representation - Traversals - Topological sort - Minimum spanning tree - Shortest paths – Bi connected and strongly connected components - Parallel algorithms - Sorting - Matrix multiplication - Numerical - Graph.

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