

MCS 218 Syllabus

Block 1 – Introduction to Data Communication

Unit 1 – Introduction to Internet

Unit 2 – Data Transmission Basics and Transmission Media

Unit 3 – Data Encoding and Multiplexing

Unit 4 – Multiplexing and Switching

Block 2 – Media Access Control and Data Link Layer

Unit 1 – Data Link Layer Fundamentals

Unit 2 – Retransmission Strategies

Unit 3 – Contention-based Media Access Protocols

Unit 4 – Wireless LAN and Data link Layer Switching

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Block 3 – Network Layer

Unit 1 – Introduction to Layer Functionality and Design Issues

Unit 2 – Routing Algorithms

Unit 3 – Congestion Control Algorithms

Unit 4 – Emerging Networking Technologies

Block 4 – Transport Layer and Application Layer Services

Unit 1 – Transport Service and Mechanism

Unit 2 – TCP/UDP

Unit 3 – Network Security-I

Unit 4 – Network Security-II

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