

MCS 211 Syllabus

Block 1 – Introduction to Algorithms

Unit 1 – Basics of an Algorithm and its Properties

Unit 2 – Asymptotic Bounds

Unit 3 – Complexity Analysis of Simple Algorithms

Unit 4 – Solving Recurrences

Block 2 – Design Techniques-I

Unit 1 – Greedy Technique

Unit 2 – Divide and Conquer Technique

Unit 3 – Graph Algorithm-I

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Block 3 – Design Techniques–II

Unit 1 – Graph Algorithms-II

Unit 2 – Dynamic Programming Technique

Unit 3 – String Matching Algorithms

Block 4 – NP-Completeness and Approximation Algorithm

Unit 1 – Introduction to Complexity Classes

Unit 2 – NP-Completeness and NP-Hard Problems

Unit 3 – Handling Intractability

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