

# MCS 212 Syllabus

## **Block 1 – Elementary Logic**

Unit 1 – Propositional Calculus

Unit 2 – Methods of Proof

Unit 3 – Boolean Algebra and Circuits

## **Block 2 – Sets and Languages**

Unit 1 – Sets, Relations and Functions

Unit 2 – Automata and Languages

Unit 3 – Computability and Complexity

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## **Block 3 – Basic Combinatorics**

Unit 1 – Combinatorics

Unit 2 – Advance Counting Principles

Unit 3 – Recurrences Relations

Unit 4 – Partitions and Distributions

## **Block 4 – Graph Theory**

Unit 1 – Basic Properties of Graphs

Unit 2 – Connectedness

Unit 3 – Eulerian and Hamiltonian Graphs

Unit 4 – Graph Colourings

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