## **Course name: Discrete Mathematics**

## Instructor: Krishna T

CLASS	CHAPTER	TOPIC	AUDIENCE
Class 1	Set Theory	Set Types, Power Set Set Properties	Btech/B.E students GATE aspirants
Class 2	Set Theory	Set Operations, Multisets	Btech/B.E students GATE aspirants
Class 3	Set Theory	Addition Theorem	Btech/B.E students GATE aspirants
Class 4	Set Theory	Set Theory Gate Questions	only for GATE aspirants
Class 5	Functions	One to One, Onto Functions	Btech/B.E students GATE aspirants
Class 6	Functions	Bijection, Inverse Functions	Btech/B.E students GATE aspirants
Class 7	Relation	Types of Relations	Btech/B.E students GATE aspirants
Class 8	Relation	Symmetric, Anti Symmetric, Aysymmetric	Btech/B.E students GATE aspirants
Class 9	Relation	POSET, Lattice, Hasse	Btech/B.E students GATE aspirants
Class 10	Relation	Boolean Algebra, Distributive Lattice	only for GATE aspirants
Class 11	Relation	Relation GATE questions	only for GATE aspirants
Class 12	Logic	Connectives, Tautology Boolean Laws	Btech/B.E students GATE aspirants
Class 13	Logic	Rules of Inference	Btech/B.E students GATE aspirants
Class 14	Logic	Rules of Inference	Btech/B.E students GATE aspirants
Class 15	Logic	Propositional Logic GATE Questions	only for GATE aspirants
Class 16	Logic	Universal Quantifier, Existential Quantifier	Btech/B.E students GATE aspirants
Class 17	Logic	Double Quantifier	Btech/B.E students GATE aspirants
Class 18	Logic	Predicate Logic GATE Questions	only for GATE aspirants
Class 19	Combinatorics	Sum Rule, Product Rule	Btech/B.E students GATE aspirants
Class 20	Combinatorics	Permutations- Linear, Circular	Btech/B.E students GATE aspirants
Class 21	Combinatorics	Permutations-Repeation	Btech/B.E students GATE aspirants

Class 22	Combinatorics	Combinations-Repeation, Distribution	Btech/B.E students GATE aspirants
Class 23	Combinatorics	Pigeon Hole Principle	Btech/B.E students GATE aspirants
Class 24	Combinatorics	Level 2 Problems	only for GATE aspirants
Class 25	Generating Functions	Finite GF, Infinite GF	Btech/B.E students GATE aspirants
Class 26	Generating Functions	using Binonimal Expansions	Btech/B.E students GATE aspirants
Class 27	Recurrence Relation	Subsitution Method	Btech/B.E students GATE aspirants
Class 28	Recurrence Relation	Methods of Characteristic Roots	Btech/B.E students GATE aspirants
Class 29	Recurrence Relation	Master Theorem	Btech/B.E students GATE aspirants
Class 30	Recurrence Relation	Generating Fun & Recurrence Relation	only for GATE aspirants
Class 31	Graph Theory	Degree, Special Graphs	Btech/B.E students GATE aspirants
Class 32	Graph Theory	Matchings	Btech/B.E students GATE aspirants
Class 33	Graph Theory	Planar Graphs, Isomorphic Graphs	Btech/B.E students GATE aspirants
Class 34	Graph Theory	Coloring, Euler, Hamiltonian	Btech/B.E students GATE aspirants
Class 35	Graph Theory	Graph Theory Level 2 Problems	only for GATE aspirants
Class 36	Graph Theory	Graph Theory Level 2 Problems	only for GATE aspirants
Class 37	Probability	Sample Space, Addition Theorem	Btech/B.E students GATE aspirants
Class 38	Probability	Conditional Probability	Btech/B.E students GATE aspirants
Class 39	Probability	Probability 1 GATE level Questions	only for GATE aspirants
Class 40	Probability	Random Variables, Poisson Distribution	Btech/B.E students GATE aspirants
Class 41	Probability	Binomial, Normal, Exponential Distribution	Btech/B.E students GATE aspirants
Class 42	Probability	Probability 2 GATE level Questions	only for GATE aspirants