NPTEL Video Course - Computer Science and Engineering - NOC:Discrete Mathematics (IIITB)

Subject Co-ordinator - Prof. Ashish Choudhury

Co-ordinating Institute - IIIT - Bangalore

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Lecture 30 - Uncomputable Functions
Lecture 31 - Tutorial - 5
Lecture 32 - Basic Rules of Counting
Lecture 33 - Permutation and Combination
Lecture 34 - Counting Using Recurrence Equations
Lecture 35 - Solving Linear Homogeneous Recurrence Equations - Part I
Lecture 36 - Solving Linear Homogeneous Recurrence Equations - Part II
Lecture 37 - Tutorial 6 - Part I
Lecture 38 - Tutorial 6 - Part II
Lecture 39 - Solving Linear Non-Homogeneous Recurrence Equations
Lecture 40 - Catalan Numbers
Lecture 41 - Catalan Numbers - Derivation of Closed Form Formula
Lecture 42 - Counting Using Principle of Inclusion-Exclusion
Lecture 43 - Tutorial - 7
Lecture 44 - Graph Theory Basics
Lecture 45 - Matching
Lecture 46 - Proof of Hallâ s Marriage Theorem
Lecture 47 - Various Operations on Graphs
Lecture 48 - Vertex and Edge Connectivity
Lecture 49 - Tutorial - 8
Lecture 50 - Euler Path and Euler Circuit
Lecture 51 - Hamiltonian Circuit
Lecture 52 - Vertex and Edge Coloring
Lecture 53 - Tutorial 9 - Part I
Lecture 54 - Tutorial 9 - Part II
Lecture 55 - Modular Arithmetic
Lecture 56 - Prime Numbers and GCD
Lecture 57 - Properties of GCD and BÃ©zoutâ s Theorem
Lecture 58 - Linear Congruence Equations and Chinese Remainder Theorem
Lecture 59 - Uniqueness Proof of the CRT
Lecture 60 - Fermatâ s Little Theorem, Primality Testing and Carmichael Numbers
Lecture 61 - Group Theory
Lecture 62 - Cyclic Groups
Lecture 63 - Subgroups
Lecture 64 - Discrete Logarithm and Cryptographic Applications
Lecture 65 - More Applications of Groups
Lecture 66 - Rings, Fields and Polynomials
Lecture 67 - Polynomials Over Fields and Properties
Lecture 68 - Finite Fields and Properties - I

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