

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Programming, Data Structures and Algorithms (Arithmetic)

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Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction to Computers and Programming
- Lecture 2 - Writing your first program
- Lecture 3 - Variables, Operators and Expressions
- Lecture 4 - Variable declarations, more operators and precedence
- Lecture 5 - Input and Output Statements
- Lecture 6 - Conditionals
- Lecture 7 - Loops
- Lecture 8 - Introduction to Arrays
- Lecture 9 - Working with 1D Arrays
- Lecture 10 - Find prime numbers
- Lecture 11 - Debugging demo
- Lecture 12 - Multi-dimensional arrays
- Lecture 13 - Pointers
- Lecture 14 - More on pointers
- Lecture 15 - Arrays and pointer arithmetic
- Lecture 16 - Introduction to Strings
- Lecture 17 - More on String
- Lecture 18 - Introduction to functions
- Lecture 19 - More details on functions
- Lecture 20 - Arguments, variables and parameters
- Lecture 21 - Pass parameters by reference
- Lecture 22 - Recursive Functions
- Lecture 23 - C control structures, functional specification of programs
- Lecture 24 - Complexity Analysis using Sum and Product Rule
- Lecture 25 - Complexity Analysis of Recursive Functions
- Lecture 26 - Algorithms and Powering
- Lecture 27 - Polynomial evaluation and multiplication
- Lecture 28 - Linear and Binary Search Analysis
- Lecture 29 - Analysis of minimum and maximum in an array

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- Lecture 30 - Sorting I
- Lecture 31 - Sorting II
- Lecture 32 - Finding i-th smallest number
- Lecture 33 - Structures
- Lecture 34 - More on Structures
- Lecture 35 - Using structures and pointers to structures
- Lecture 36 - Dynamic memory allocation
- Lecture 37 - Linked List
- Lecture 38 - Brief introduction to C++
- Lecture 39 - Abstract Data Types
- Lecture 40 - More on ADT
- Lecture 41 - Stacks
- Lecture 42 - Queues
- Lecture 43 - Trees
- Lecture 44 - Tree Traversal
- Lecture 45 - Binary Search
- Lecture 46 - Heaps
- Lecture 47 - Graphs and Representations
- Lecture 48 - Greedy Algorithms
- Lecture 49 - Dynamic Programming
- Lecture 50 - Matrix Chain Multiplication
- Lecture 51 - Hash Tables
- Lecture 52 - Graph Algorithms
- Lecture 53 - Graph Traversals
- Lecture 54 - File I/O
- Lecture 55 - Modular Programming