

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

NPTEL Video Course - Computer Science and Engineering - NOC:An Introduction to Programming through C++

Subject Co-ordinator - Prof. Abhiram G Ranade

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Introduction - Part 1
Lecture 2 - Introduction - Part 2
Lecture 3 - Introduction - Part 3
Lecture 4 - Introduction - Part 4
Lecture 5 - Problem Solving using Computer - Part 1
Lecture 6 - Problem Solving using Computer - Part 2
Lecture 7 - Problem Solving using Computer - Part 3
Lecture 8 - Problem Solving using Computer - Part 4
Lecture 9 - Problem Solving using Computer - Part 5
Lecture 10 - Basic Elements of Program - Part 1
Lecture 11 - Basic Elements of Program - Part 2
Lecture 12 - Basic Elements of Program - Part 3
Lecture 13 - Basic Elements of Program - Part 4
Lecture 14 - Program Design - Part 1
Lecture 15 - Program Design - Part 2
Lecture 16 - Program Design - Part 3
Lecture 17 - Simple cpp Graphics
Lecture 18 - Conditional Execution - Part 1
Lecture 19 - Most general form of if - Part 2
Lecture 20 - More general form of conditions - Part 3
Lecture 21 - A somewhat large program example - Part 4
Lecture 22 - Switch statement and logical data - Part 5
Lecture 23 - Loops - Part 1
Lecture 24 - Mark averaging - Part 2
Lecture 25 - The break and continue statements - Part 3
Lecture 26 - The for statement - Part 4
Lecture 27 - Euclid's algorithm for GCD - Part 5
Lecture 28 - Correctness proof for GCD - Part 6
Lecture 29 - Computing Mathematical Functions - Part 1

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- Lecture 30 - Computing Mathematical Functions - Part 2
- Lecture 31 - Computing Mathematical Functions - Part 3
- Lecture 32 - Computing Mathematical Functions - Part 4
- Lecture 33 - Loops in various applications - Part 1
- Lecture 34 - Loops in various applications - Part 2
- Lecture 35 - Loops in various applications - Part 3
- Lecture 36 - Loops in various applications - Part 4
- Lecture 37 - Loops in various applications - Part 5
- Lecture 38 - Functions - Part 1
- Lecture 39 - Functions - Part 2
- Lecture 40 - Functions - Part 3
- Lecture 41 - Functions - Part 4
- Lecture 42 - Functions - Part 5
- Lecture 43 - Recursion - Part 1
- Lecture 44 - Recursion - Part 2
- Lecture 45 - Recursion - Part 3
- Lecture 46 - Virahanka Numbers - Part 1
- Lecture 47 - Virahanka Numbers - Part 2
- Lecture 48 - Virahanka Numbers - Part 3
- Lecture 49 - Program Organization and Functions - Part 1
- Lecture 50 - Program Organization and Functions - Part 2
- Lecture 51 - Program Organization and Functions - Part 3
- Lecture 52 - Program Organization and Functions - Part 4
- Lecture 53 - Advanced Features of Functions - Part 1
- Lecture 54 - Advanced Features of Functions - Part 2
- Lecture 55 - Advanced Features of Functions - Part 3
- Lecture 56 - Advanced Features of Functions - Part 4
- Lecture 57 - Array Part-1 - Part 1
- Lecture 58 - Array Part-1 - Part 2
- Lecture 59 - Array Part-1 - Part 3
- Lecture 60 - Array Part-1 - Part 4
- Lecture 61 - Array Part-1 - Part 5
- Lecture 62 - Array Part-1 - Part 6
- Lecture 63 - Array Part-1 - Part 7
- Lecture 64 - Array Part-1 - Part 8
- Lecture 65 - Array Part-1 - Part 9
- Lecture 66 - Array Part-2 - Part 1
- Lecture 67 - Array Part-2 - Part 2
- Lecture 68 - Array Part-2 - Part 3

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- Lecture 69 - Array Part-2 - Part 4
- Lecture 70 - More on Arrays - Part 1
- Lecture 71 - More on Arrays - Part 2
- Lecture 72 - More on Arrays - Part 3
- Lecture 73 - More on Arrays - Part 4
- Lecture 74 - Arrays and recursion - Part 1
- Lecture 75 - Arrays and recursion - Part 2
- Lecture 76 - Arrays and recursion - Part 3
- Lecture 77 - Arrays and recursion - Part 4
- Lecture 78 - Arrays and recursion - Part 5
- Lecture 79 - Structures - Part 1
- Lecture 80 - Structures - Part 2
- Lecture 81 - Structures - Part 3
- Lecture 82 - Structures - Part 4
- Lecture 83 - Structures Part 2 - Part 1
- Lecture 84 - Structures Part 2 - Part 2
- Lecture 85 - Structures Part 2 - Part 3
- Lecture 86 - Classes - Part 1
- Lecture 87 - Classes - Part 2
- Lecture 88 - Classes - Part 3
- Lecture 89 - Classes - Part 4
- Lecture 90 - Classes - Part 5
- Lecture 91 - Classes - Part 6
- Lecture 92 - Representing variable length entities - Part 1
- Lecture 93 - Representing variable length entities - Part 2
- Lecture 94 - Representing variable length entities - Part 3
- Lecture 95 - Representing variable length entities - Part 4
- Lecture 96 - Representing variable length entities - Part 5
- Lecture 97 - Representing variable length entities - Part 6
- Lecture 98 - Representing variable length entities - Part 7
- Lecture 99 - The Standard Library - Part 1
- Lecture 100 - The Standard Library - Part 2
- Lecture 101 - The Standard Library - Part 3
- Lecture 102 - The Standard Library - Part 4
- Lecture 103 - The Standard Library - Part 5
- Lecture 104 - Data structure based programming - Part 1
- Lecture 105 - Data structure based programming - Part 2
- Lecture 106 - Data structure based programming - Part 3
- Lecture 107 - Data structure based programming - Part 4

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- Lecture 108 - Data structure based programming - Part 5
- Lecture 109 - Medium size programs - Part 1
- Lecture 110 - Medium size programs - Part 2
- Lecture 111 - Medium size programs - Part 3
- Lecture 112 - Medium size programs - Part 4
- Lecture 113 - A graphical editor and solver for circuits - Part 1
- Lecture 114 - A graphical editor and solver for circuits - Part 2
- Lecture 115 - A graphical editor and solver for circuits - Part 3
- Lecture 116 - A graphical editor and solver for circuits - Part 4
- Lecture 117 - Cosmological simulation - Part 1
- Lecture 118 - Cosmological simulation - Part 2
- Lecture 119 - Cosmological simulation - Part 3
- Lecture 120 - Cosmological simulation - Part 4