

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

NPTEL Video Course - Computer Science and Engineering - NOC:Data Structure and Algorithms using Java

Subject Co-ordinator - Prof. Debasis Samanta

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction and Course Plan
Lecture 2 - Generic Methods
Lecture 3 - Basics of Generic Class
Lecture 4 - Parameterized Generic Class
Lecture 5 - Bounded Argument Generic Class
Lecture 6 - Basics of the Framework
Lecture 7 - Collection in JCF
Lecture 8 - Set of JCF
Lecture 9 - Map Framework
Lecture 10 - Java Legacy Classes
Lecture 11 - Array Data Structures
Lecture 12 - Programming for Arrays
Lecture 13 - Class ArrayList for Arrays
Lecture 14 - Arrays for Arrays
Lecture 15 - Vector Class for Arrays
Lecture 16 - Linked List Data Structure - Part I
Lecture 17 - Linked List Data Structure - Part II
Lecture 18 - Programming for Linked Lists - Part I
Lecture 19 - Programming for Linked Lists - Part II
Lecture 20 - Linked Lists Using JCF
Lecture 21 - Stack Data Structures
Lecture 22 - Programming for Stack
Lecture 23 - Stack Using JCF
Lecture 24 - Queue Data Structure
Lecture 25 - Programming for Queue
Lecture 26 - Queue Using JCF
Lecture 27 - Understanding Tree Data Structures
Lecture 28 - Operations on Binary Tree Data Structures
Lecture 29 - Binary Search Tree

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- Lecture 30 - Programming for Binary Search Tree
- Lecture 31 - Height Balanced Binary Search Tree
- Lecture 32 - Heap Tree
- Lecture 33 - Programming for Heap Tree
- Lecture 34 - Huffman Tree
- Lecture 35 - Graph Structures
- Lecture 36 - Graph Algorithms
- Lecture 37 - Map Framework in Java
- Lecture 38 - Applications of Map - Part I
- Lecture 39 - Applications of Map - Part II
- Lecture 40 - Collection Set
- Lecture 41 - Operations on Set Collection
- Lecture 42 - Introduction to java.io
- Lecture 43 - IO with Byte Streams
- Lecture 44 - IO with Character Streams
- Lecture 45 - File Input-Output
- Lecture 46 - Random Access File
- Lecture 47 - Linear Searching Algorithms
- Lecture 48 - Non-linear Searching Algorithms
- Lecture 49 - Programs for Searching
- Lecture 50 - Sorting Algorithms - Part I
- Lecture 51 - Improved Sorting Algorithms
- Lecture 52 - Advanced Sorting Algorithms
- Lecture 53 - Programs for Sorting - Part I
- Lecture 54 - Programs for Sorting - Part II
- Lecture 55 - Sorting Using JCF
- Lecture 56 - String Class
- Lecture 57 - Applications of String
- Lecture 58 - StringBuffer Class
- Lecture 59 - Miscellaneous Utilities
- Lecture 60 - Java Cursors