UNIT I

Chapter 1 : Fundamentals 1-1 to 1-11

Syllabus :

The Role of Algorithms in Computing - What are algorithms, Algorithms as technology, Evolution of Algorithms, Design of Algorithm, Need of Correctness of Algorithm, Confirming correctness of Algorithm - sample examples, Iterative algorithm design issues.

UNIT II

Chapter 2 : Models and Design 2-1 to 2-16

Syllabus :

Functional Model - Features, Recursive processes, Scope rules, Tail recursion, Checking correctness of Iterative process. Imperative Model - Basics, Specifications and Prototyping, Stepwise Refinement, Proof Rules - Basics, For loops, Goto and Exit loops, Functions and Procedures, Problem Solving using Greedy strategy - Knapsack problem, Huffman code generation algorithm.

UNIT III

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