

ECSE414L – ADVANCED DATA STRUCTURES AND ALGORITHMS

Course Type-Core L-T-P Format 6-0-12 Credits-5

Covering Theory of all the Advanced Data Structures and Algorithms like Tree, Heap, Graph and Trie. Solving 78 Easy and Medium Level.

COURSE-SPECIFIC LEARNING OUTCOMES

CO1: It will prepare you for Placement Interviews for big FAANG Companies.

CO2: It will help you understand Non-Linear Data Structures and Algorithms.

LECTURES /THEORY

Module-1 (W1, W2, W3, W4) Tree Data Structures and Algorithms

Module-2 (W5, W8, W9, W10, W11, W12) Heap Data Structures and Algorithms

Module-3 (W17, W18, W19, W20) Graph Data Structures and Algorithms

Module-4 (W21, W22, W23, W24) Tries Data Structures and Algorithms

STUDIO WORK / LABORATORY EXPERIMENTS.

Module-1 (W1, W2, W3, W4) Tree Data Structures and Algorithms(33)

Module-2 (W5, W8, W9, W10, W11, W12) Heap Data Structures and Algorithms(12)

Module-3 (W17, W18, W19, W20) Graph Data Structures and Algorithms(24)

Module-4 (W21, W22, W23, W24) Tries Data Structures and Algorithms(9)

EXAMINATIONS

Mid-Term and Syllabus (W6, W7) Module-1, Module-2

End-Term and Syllabus (W13, W14, W15, W16) Complete Syllabus