

B –TECH COMPUTER SCIENCE ENGINEERING

II YEAR –I SEM

COURSE COUT COMES

DLD

CO 1:- Students will be aware of theory of Boolean algebra & the underlying features of various number systems.

CO 2:- Students will be able to use the concepts of Boolean algebra for the analysis & design of various combinational & sequential logic circuits.

CO 3:- Students will be able to design various logic gates and design of counters, multipliers, encoders, decoders, comparators.

CO 4:- Students will have knowledge about RAM, PAL, PLA, different types of memories.

DS

CO 1:- Illustrate the concepts of data structure, data type and array data structure.

CO 2:- Analyze algorithms and determine their time complexity.

CO 3:- Develop linked list data structure to solve various problems.

CO 4:- Apply various data structure such as stacks, queues, trees and graphs to solve various computing problems using C-programming language.

CO 5:- Choose the data structure that efficiently models the information in a problem.

CO 6:- Develop standard algorithms for Searching and sorting.

CO 7:- Develop graphs – DFS, BFS.

MFCS

CO 1:- Illustrate by examples on the basic terminology of sets functions, relations and predicate logic.

CO 2:- Demonstrate knowledge on operations associated with sets, relations and functions.

CO 3:- Demonstrate in practical applications the use of basic counting, principles of permutations, and combinations, inclusion and exclusion principles.

CO 4:- Solve the problems those involve the concept of recursion and recursively defined structures.

CO 5:- Apply graph theory in solving computer science problems and other related problems.

MATHEMATICS – II

CO 1:- use Laplace transform techniques for solving DE's

CO 2:- Evaluate integrals using Beta and Gamma functions

CO 3:- evaluate the multiple integrals and can apply these concepts to find areas, volumes, moment of inertia etc of regions on a plane or in space

CO 4:- evaluate the line, surface and volume integrals and converting them from one to another

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