

YEAR/SEMESTER II -I

DATASTRUCTURES THROUGH C++

CO1: Able to write programs using c++

CO2: Able to predict time and space complexity

CO3: Able to identify appropriate data structure like stack, queues, linked lists and represent them

CO4: Able to identify the purpose of searching, hashing and sorting techniques and their representations

CO5: Able to represent search trees like binary search tree, avl trees, b-trees, red black trees

JAVA PROGRAMMING

CO1: Solve the real world problems using oops technique.

CO2: Create & implement packages & interfaces

CO3: Handle run time errors using exception handling technique

CO4: Able to write multithreaded programming to solve the problems.

CO5: Develop GUI based application using applet, awt and swing.

DIGITAL LOGIC DESIGN

CO1: Understand number systems and codes

CO2: Solve Boolean expressions using minimization methods

CO3: To design the combinational and sequential circuits.

CO4: Interpret the output of given combinational and sequential circuit

MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE

CO1: Ability to apply mathematical logic to solve problems

CO2: Understand sets, relations, functions and discrete structures

CO3: Able to formulate problems and solve combinations and permutations

CO4: Able to formulate problems and solve recurrence relations

CO5: Able to model and solve real-world problems using graphs and trees