Data Structures
Autumn 2009-10

Credits: 3-0-3-4.5

Instructor: Dr. Anish Mathuria, Room 1105, Faculty Block 1
Lectures: TWF, 9:30-10 :30 AM, LT-2
Labs: see timetable

Objectives

- Introduce data structures and discuss their uses
- Study the complexity of algorithms used for data structure access and update

Contents: Asymptotic notation, abstract data types, linked lists, stacks and queues; recursion; trees and tree traversals (recursive, non-recursive); binary trees; heaps and priority queues; binary search trees (AVL, Red-Black); multi-way search trees (2-3, 2-3-4, B-Trees); hash tables.

Course Text


Additional references in course reserve held in RC

Evaluation

- In-semestre exams (two):  40%
- End-sem exam: 40%
- Lab assignments: 20%