IT623 Algorithms & Data Structures
Course Details
Time Table

**Lectures**
- Content delivery through 35-40 video lectures.
- Live session using Google Meeting or similar tool at least once a week for doubt solving, Q&A and problem solving through quizzes.

**Labs**
- Labs session for algorithms and data structure implementation using language such as Java
  - Student can use any open source editor and compiler for the same.
Instructor and Teaching Assistants Details

• Instructor: Amit Mankodi
• Office: Faculty Block IV 4205
• Email: amit_mankodi@daiict.ac.in
• Phone: (+91) 079-3051 0656

• Teaching Assistants:
  • Will be announced
Course Objective

• Learn different data structures such as arrays, linked list, queue, stack, trees, graph etc.

• Learn algorithms implementation to perform a specific task using these data structures.

• Learn how to measure the execution time of some of these algorithms using asymptotic notation.
Books

• *Data Structures & Algorithms in Java, 2nd Edition*, by Robert Lafore, Sams

• *Data Abstraction and Problem Solving with JAVA: Walls and Mirrors, 1st edition*, by Carrano and Prichard

• *Introduction to Algorithms, 2nd edition*, by Cormen, Leiserson, Rivest, Stein (CLRS)
Evaluation Policy

• Class Participation and Quizzes: 10%
• Lab Programming Assignments → 20%
• In-Semester Exam 35%
• End-Semester Exam 35%
• Attendance Policy:
  • University Policy of 80% attendance
• P.S. - Plagiarism is not acceptable and will attract F grade
Class Etiquette

• Be on time for lectures and labs (even in Online Mode)

• Attend lectures regularly
  • Information provided in lectures are not all the slides, books etc. Many things are shared by faculty is from own experience.

• Its not a Monologue:
  • I encourage students to ask questions. Asking questions makes you understand topic better as well I will know how much students understand
  • Live sessions for Q&A and Problem Solving.