

CS2700: Programming and Data Structures Lab

July Nov 2021

R Slot; **Timing: Wednesday 2.00pm – 4.40pm**

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1 Course objectives

This course represents the lab component of CS2700 Course. The objective is to implement some of the data structures learned in the theory course.

2 Learning Outcomes

- Write C++ programs by choosing appropriate data structures to solve a problem.
- Implement / Design suitable data structures (abstract data types) as required in C++ programs.
- Analyze the time taken by the C++ program.

3 Mode of Lab operations

Using the web-based tool repl.it.

4 Textbooks

Data Structures and Algorithm Analysis in C / C++ by Mark Allen Weiss.

5 Course Requirements

You are *required* to attend all the lab sessions.

6 Tentative Grading Policy

The following allocation of points is tentative.

Lab Exam 1 : Sept 1	15%
Lab Exam 2 : Oct 6	15%
Weekly Lab Assignments : 10 (best 10 out of 12) (Aug 11, Aug 18, Aug 25, Sept 8, Sept 15, Sept 22, Sept 29, Oct 13, Oct 20, Oct 27, Nov 3, Nov 10)	70%

7 Academic Honesty

Academic honesty is expected from each student participating in the course. NO sharing (willing, unwilling, knowing, unknowing) of assignment code between students, submission of downloaded code (from the Internet, geeksforgeeks, or anywhere else) is allowed.

Academic violations will be handled by IITM Senate Discipline and Welfare (DISCO) Committee. Typically, the first violation instance will result in ZERO marks for the corresponding component of the Course Grade and a drop of one- penalty in overall course grade. The second instance of code copying will result in a 'U' Course Grade and/or other penalties. The DISCO Committee can also impose additional penalties.