

Independent University, Bangladesh (IUB)

Course name: Algorithms Lab

Course ID: CSE 211L, CSC 306L, CEN 306L (1.0 credits)

Course Instructor:

Bijoy Rahman Arif

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cell: 01724094636

help: S 10:00am - 11:00am or any other time during office hours

Room: 5010 (D)

Objective:

Designing good algorithm is called the art of computer programming.

In this course, we are going to learn the how to implement useful algorithms in C and C++.

Topics:

Lab 1: Introduction to C and C++, Important concepts of programming like function/ procedure, recurrence, pass by value and reference etc.

Lab 2: Sorting algorithm-I

Lab 3: Sorting algorithm-II

Lab 4: Sorting algorithm-III

Lab 5: Different Trees-I

Lab 6: Different Trees-II

Lab 7: Different Trees-III

Lab 8: Different Trees-IV

Lab 9: Hashing

Lab 10: Dynamic Programming-I

Lab 11: Dynamic Programming-II

Lab quiz exam

Marks Distribution

Attendance: 20% Participation: 20% Assignment: 30% (every week)

Lab Quiz: 30%

Grading: According to IUB policy and class dynamics.

Recommended Books:

1. C++: How to Program by Deitel and Deitel.
2. Introduction to Algorithms by Corman, Leiserson. Rivest and Stein. (Second edition)

Note:

*Plagiarism is strictly prohibited. All parties will be given zero for any kind of instance.