Data Structures & Algorithms

Course Title

- Course Code: CMP331.3 [3-1-3]

- Instructor: Santa Basnet

- Marks:

  - Theory: Internal - 30, External - 50

    - Internal: [UT, Assessment, Assignments]

  - Practical: 20

    - Program, Output, Reports submission, Viva Exam.

Objectives

- To provide fundamental knowledge on data structure.

- Design and Implementation of data structures.

- Basic knowledge on designing algorithms.

Course Preliminaries

- Basic knowledge of any high level programming language, preferred C/C++.

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Reading Materials

- Data Structures Using C and C++, Y. Langsam, M. Augenstein, A. Tanenbaum, Brooklyn college.

Course Lectures

- Stack, Queue, List and Linked List (15 hrs)

- Tree and Graph (12 hrs)

- Recursion (4 hrs)

- Sorting (5 hrs)

- Searching (5 hrs)

- Algorithms (5 hrs)

Thank you

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11/14/21

DSA, Santa at Everest Engineering College