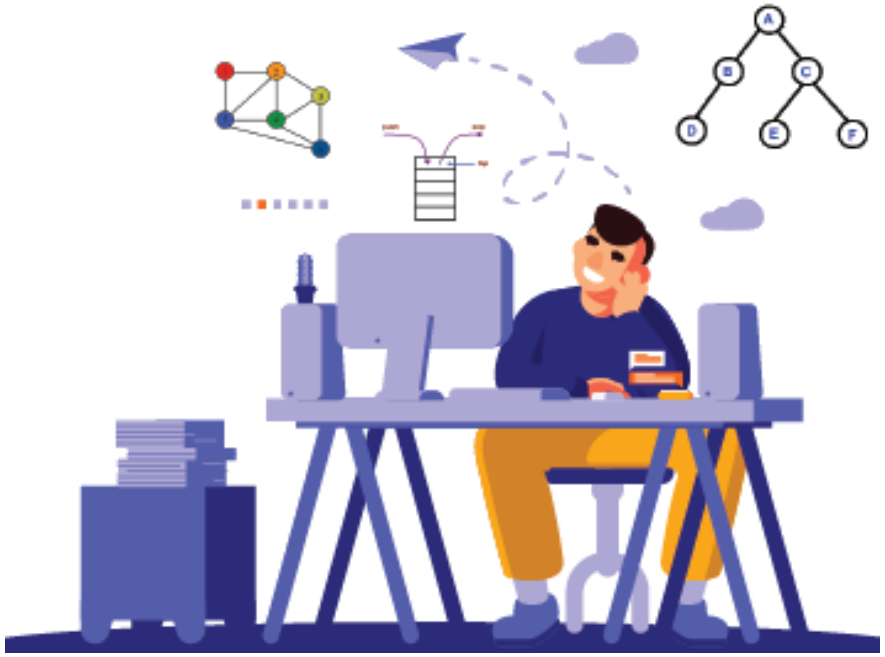
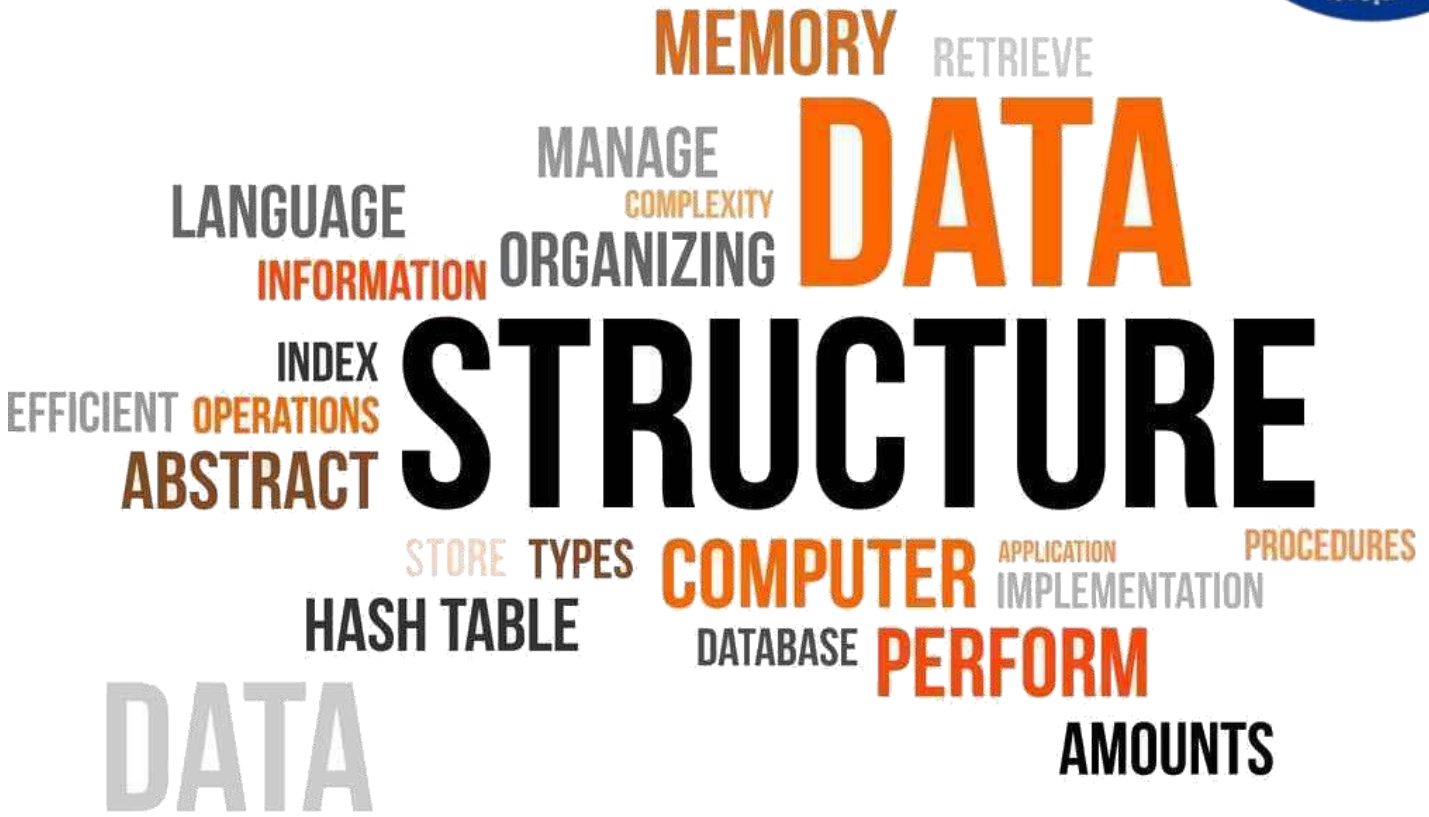


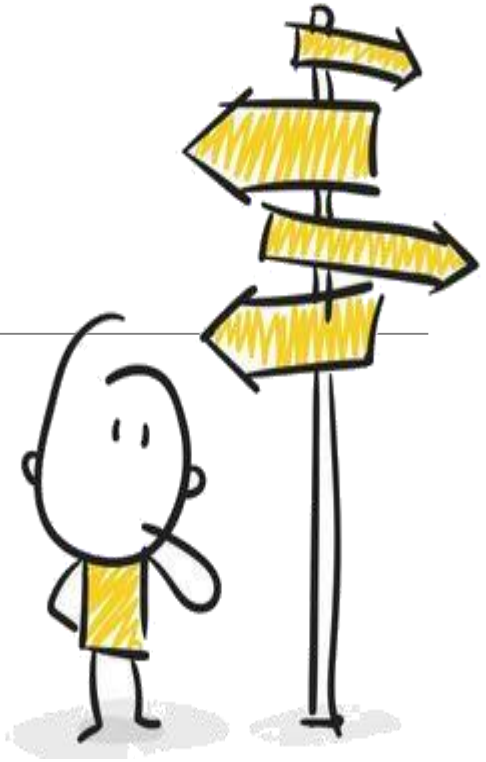
Data Structures

Course code: IT623



Dr. Rahul Mishra
Assistant Professor
DA-IICT, Gandhinagar

Know your mentor



Your mentor: Dr. Rahul Mishra, PhD., IIT (BHU) Varanasi

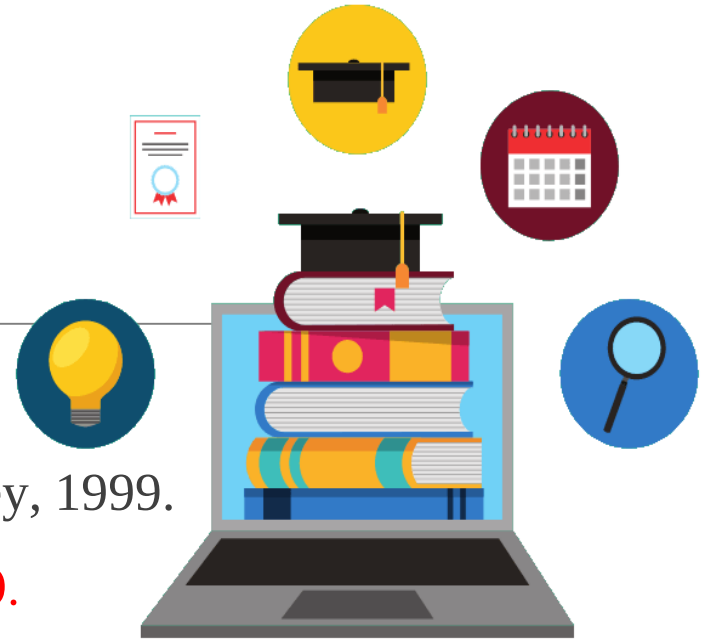
My office: Faculty block 2, First Floor, Room No. 2208

E-mail: rahul_mishra@daiict.ac.in, rahulmishra.rs.cse17@iitbhu.ac.in

Contact No. : **7408622031** (Ping with your query before call)

Webpage: https://sites.google.com/view/rahulmishracse/home

Notes and study materials



Textbooks

'Data Structures and Algorithms', by Aho, Hopcroft and Ullman, Addison-Wesley, 1999.

'Introduction to Algorithms', by Cormen, Leiserson, Rivest, and Stein, PHI, 2010.

'Data Structures', by Seymour Lipschutz, Tata McGraw-Hill Education.

'Data Structures and Algorithms in C++/Java', by Goodrich, Tamassia, and Goldberg, Wiley 2011.

All the slides presented in the class will be provided to the students.

Some of the published papers will also be given to enhance your in-depth understanding.

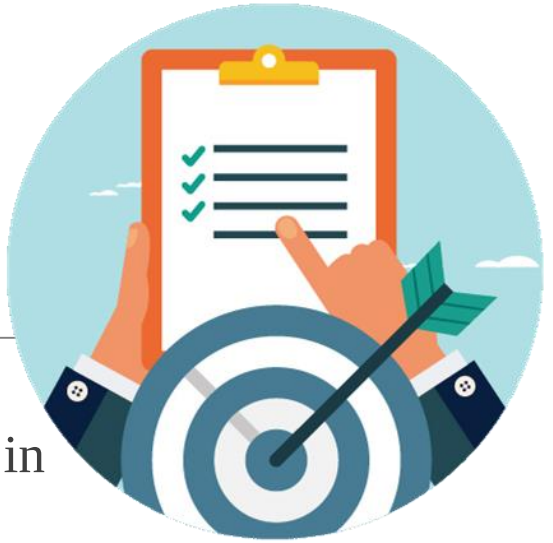
Grading Policy

Assessment method:

The assessment weightage is divided as follows:

1. **Mid-Semester Examination (or Multiple Quizzes): 30%**
2. **Final Semester Examination: 50%**
3. **Laboratory: 15%**
4. **Attendance: 5%** (***softer***)

Course Outcome



The course aims to introduce the concept of data structures and their indispensability in implementing algorithms and also how they aid in improving performance.

After completion of this course, students will be able to understand:

- important data structures;
- algorithms demonstrating the use of data structures; and
- the analysis of the performance of data structures and algorithms, in terms of time and space resources they consume.

Course Prerequisites

Programing in C.

Your curiosity to learn new things (Important)