

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

NAME OF DEPT./CENTRE: **Computer Science and Engineering**

1. Subject Code: **CSN-261** Course Title: **Data Structures Laboratory**

2. Contact Hours: **L: 0 T: 0 P: 3**

3. Examination Duration (Hrs.): **Theory:0 Practical:3**

4. Relative Weight: **CWS:0 PRS: 50 MTE: 0 ETE:0 PRE:50**

5. Credits: **2** 6. Semester: **Autumn** 7. Pre-requisite: **CSN-103**

8. Subject Area: **DCC**

9. Objective: To provide basic data structure concepts in an object-oriented setting for design, implementation, testing and maintenance of software systems.

10. Details of the Course:

Sl.No.	Contents	Contact Hours
1.	Laboratory component (a) Programming of various data structures and applications in C++ and Java. (b) Data structure programming using STL.	14x2

11. Suggested Books:

S. No.	Name of Authors / Books / Publishers	Year of Publication/ Reprint
1.	Sahni, S., "Data Structures, Algorithms, and Applications in C++", WCB/McGraw-Hill.	2001
2.	Sahni, S., "Data Structures, Algorithms, and Applications in Java", WCB/McGraw-Hill.	2001
3.	Drozdek, A., "Data Structures and Algorithms in C++", Vikas Publishing House.	2002
4.	Wirth, N., "Algorithms and Data Structures", Prentice-Hall of India.	1985
5.	Lafore, R., "Data Structures and Algorithms in Java", 2 nd Ed., Dorling Kindersley.	2007