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| **LESSON PLAN** |  |
| **Discipline : Computer Engineering** |  |
| **Semester: 3rd**  |  |
| **Subject : Data Structure Practical**  |  |
| Lesson Plan Duration : 15 weeks (from Sept 2022 to Dec 2022) |  |
| Work Load (Practical) per week (in hours): **Practical 04 hours** |  |
| **Week** | **Practical** | **Remark if any** |
| 1st | Write a program for Binary search methods. |  |
| 2nd | Write a program for insertion sort, selection sort and bubble sort |  |
| 3rd | Write a program to implement Stack and its operation. |  |
| 4th | Write a program for quick sort. |  |
| 5th | Write a program for merge sort |  |
| 6th | Write a program to implement Queue and its operation |  |
| 7th | Minor Test |  |
| 8th | Write a program to implement Circular Queue and its operation. |  |
| 9th | Write a program to implement singly linked list for the following operations: Create, Display, searching, traversing and deletion. |  |
| 10th | Write a program to implement doubly linked list for the following operations: Create, Display, inserting, counting, searching, traversing and deletion. |  |
| 11th | Write a program to implement circular linked list for the following operations: Create, Display, inserting, counting, searching, traversing and deletion. |  |
| 12th | Write a program to implement circular linked list for the following operations: Create, Display, inserting, counting, searching, traversing and deletion. |  |
| 13th | Write a program to implement insertion, deletion and traversing in B tree |  |
| 14th | Minor Test |  |
| 15th | Write a program to implement warshall algorithm. |  |