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| Sl. No | Syllabus | Curriculum | Deployment Strategy and  Tool | Cross-cutting issues  integrated | PO, PSO and CO | Attainments | Attainment Verification |
| 1. | DATA STRUCTURES AND APPLICATIONS | * To introduce the fundamental concept of data structures and to emphasize the importance of data structures in developing and implementing efficient algorithms. In addition, another objective of the course is to develop effective software engineering practice, emphasizing such principles as decomposition, procedural abstraction, and software reuse. * Data structures are used to implement printer spoolers so that jobs can be printed in the order of their arrival. To implement back functionality in the internet browser. To store the possible moves in a chess game. To store a set of ﬁxed key words which are referenced very frequently * They are essential components in creating fast and powerful algorithms. They help to manage and organize data so that it will make our code cleaner and easier to understand. Data structures can make the difference between an Okay product and an outstanding | 1. Chalk and   Talk method   1. PPT | * Business   Ethics   * Human   values | PO1:Engineering Knowledge  PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO5:Modern Tool Usage  PO7:Environment And Sustainability  PO11:Project Management and Finance.  PO12: Life-long  Learning. |  |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |  |
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|  |  | **CO1** Acquire knowledge of   * + Various types of data structures, operations and algorithms.   + Sorting and searching operations.   + File structures.   **CO2** Analyse the performance of   * + Stack, Queue, Lists, Trees, Graphs, Searching and Sorting techniques.   **CO3** Implement all the applications of Data structures in a high-level language.  **CO4** Design and apply appropriate data structures for solving computing problems. |  |
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