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| Sl. No | Syllabus | Curriculum | Deployment Strategy andTool | Cross-cutting issuesintegrated | 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 method1. PPT
 | * Business

 Ethics* Human

 values | PO1:Engineering KnowledgePO2:Problem AnalysisPO3:Design/Development Of SolutionsPO5:Modern Tool UsagePO7:Environment And SustainabilityPO11:Project Management and Finance. PO12: Life-longLearning. |  |  |
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|  |  | PSO1:Professional SkillsPSO2: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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