**Lecture Links**

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| **Sr#** | **Topic** | **Link** |
|  | Pointers and dynamic memory allocation | <https://youtu.be/wBv_3Itu9cw>  <https://youtu.be/zMNcM2Xu6ws> |
|  | Singly Linked List | [Singly Link List Algorithm analysis and Data Structure in Hindi Urdu LECTURE 21 - YouTube](https://www.youtube.com/watch?v=tz-KbUEZhUg&feature=youtu.be)  [Inserting into Linked List Algorithm analysis and Data Structure in Hindi Urdu LECTURE 19 - YouTube](https://www.youtube.com/watch?v=f0aLG409hHU&feature=youtu.be)  [Deleting an Element From Linked List algorithm analysis and data structure in Hindi Urdu LECTURE 20 - YouTube](https://www.youtube.com/watch?v=G-hc9VFZoL0&feature=youtu.be) |
|  | Doubly Linked List | [Doubly Linked List in Algorithm analysis and Data Structure in Hindi Urdu LECTURE 23 - YouTube](https://www.youtube.com/watch?v=e2glClZw0Ic&t=95s) |
|  | Stack | [Stacks in Data Structure in Urdu|Hindi CSC211 LECTURE 23 - YouTube](https://www.youtube.com/watch?v=G8rPm7b1E-Y&feature=youtu.be) |
|  | FIFO Queue | <https://pern.sharepoint.com/sites/DS-Fall2020BSCS-3B/Class%20Materials/FIFO%20Queues%20(Simple%20&%20Circular%20Queue).mp4> |
|  | Circular Queue | <https://pern.sharepoint.com/sites/DS-Fall2020BSCS-3B/Class%20Materials/FIFO%20Queues%20(Simple%20&%20Circular%20Queue).mp4> |
|  | Priority Queue | <https://pern.sharepoint.com/sites/DS-Fall2020BSCS-3B/Class%20Materials/Priority%20Queue.mp4> |
|  | Double Ended Queue | <https://pern.sharepoint.com/sites/DS-Fall2020BSCS-3B/Class%20Materials/Double%20Ended%20Queue.mp4> |
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| 9. | Complexity, Searching and Sorting | <https://www.youtube.com/watch?v=bgKo_yzpmxI&list=PL-SGluqSMsD0QHDGnaHRoDrsa_sU37_AO> |
| 10. | Bubble sort, selection sort and Insertion Sort | <https://www.youtube.com/watch?v=dY6ENeMlnvY&feature=youtu.be> |
| 11. | Merge Sort | <https://www.youtube.com/watch?v=XfXdkJdwGYU&feature=youtu.be> |
| 12. | Binary Trees, Binary Search Trees and AVL | <https://www.youtube.com/playlist?list=PL-SGluqSMsD0XXxGzG2eSE7yCfY1V5c2P> |
| 13. | Introduction to Graph | <https://youtu.be/PSydSiIwP90> |
| 14. | MST | <https://pern.sharepoint.com/sites/DS-Fall2020BSCS-3B/Shared%20Documents/General/MST%20Lecture%20(1).mp4> |
| 15. | Heap Tree | [Binary Tree and Heap Sort in Data Structure in Urdu|Hindi CSC211 LECTURE 26 - YouTube](https://www.youtube.com/watch?v=hhJYOd6-0Vs&t=57s) |
| 16. | Hashing | [Hash Table Data Structure Design and Analysis of Algorithms Urdu Hindi LECTURE 17 - YouTube](https://www.youtube.com/watch?v=7JGEwnqCw-c) |