

**INSTITUTE OF ENGINEERING AND   
TECHNOLOGY (IET)**Department of Computer Science Engineering  
*CS1213-Advance Data Structure and Algorithm*

*B & B+ Tree*

**Submitted to:**

Mr. Santosh Kumar  
  
**Submitted by:**

Sharma Rohan Naresh  
2020BTechCSE066  
(Group 7)

**March 2, 2023**

* Difference between B and B+ tree

|  |  |  |
| --- | --- | --- |
|  | B Tree | B+ Tree |
|  | Data(value) can be stored in an internal or a leaf node. | Data is stored only in leaf node and key is stored in internal node. |
|  | Leaf nodes are not linked. | Leaf nodes are linked to form linked list. |
|  | Deletion of value is not easy, as the value which is needed to be deleted can be present either in internal node or leaf node. | Deletion of value is easy as it is in leaf node. |
|  | No copies of a single value can be found. | Copies of the value can be found. |
|  | Searching is slower because data can be present in the internal node as well as in leaf node. | Searching is faster as compared to the B tree because the data value is present in the leaf node. |
|  | B Trees (M-way Trees) Data Structure - StudytonightB tree of order 4. | B+ Trees Data Structure - StudytonightB+ Tree of order 4. |

*END!*