**SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN:: BHIMAVARAM**

**(Autonomous)**

**Department of Information Technology**

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| **Subject Name:**  Data Structures  **Section:** IT-A & B | **Academic Year:** 2017-18  **Year/Sem :** II/I B.Tech |

**Topics beyond the syllabus - CO & PO Mapping**

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| **SNO** | **Topics** | **Mapped COs** | **Mapped POs** |
| 1 | **Minimum Spanning Tree–**  The cost of the spanning tree is the sum of the weights of all the edges in the tree. There can be many spanning trees. Minimum spanning tree is the spanning tree where the cost is minimum among all the spanning trees. There also can be many minimum spanning trees.  Minimum spanning tree has direct application in the design of networks.  It would be benefit to the student to explore various algorithms related to real time graph applications | CO6 | PO1, PO2, PO3, PO4, PO5 |