**ADVANCED TUTORIAL LIST**

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| **Tutorial session no** | **Tutorial** | **CO-Mapping** |
| 1 | Demonstrate the Graphical method and Simplex method in Linear Programming. | CO1 |
| 2 | Demonstrate the Simplex method in Linear Programming and its special cases and applications. | CO1 |
| 3 | Demonstrate Two Phase Simplex methodinLinear Programming., Bounded variable problem. | CO2 |
| 4 | Demonstrate the Duality in Linear Programming, Decomposition method | CO2 |
| 5 | Demonstrate the Initial Basic Solution in Transportation problem using NW method in Linear Programming (Stepping stone). | CO3 |
| 6 | Demonstrate the Initial Basic Solution in Transportation problem using Vogel method in Linear Programming (U-V method)., Least time Transportation problem. | CO3 |
| 7 | Demonstrate the Initial Basic Solution in Transportation problem using NW method in Linear Programming (U-V method). | CO3 |
| 8 | Demonstrate the Initial Basic Solution in Transportation problem using Row Minimum method, Column Minimum method in Linear Programming. | CO3 |
| 9 | Demonstrate the Initial Basic Solution in Transshipment problem in Linear Programming., Post optimality analysis. | CO3 |
| 10 | Demonstrate the Transportation problem using Modi method (Initial solution can be of any method) in Linear Programming. | CO3 |
| 11 | Demonstrate the Assignment problem using Hungarian method. | CO3 |
| 12 | Demonstrate the Interior point method in Linear Programming., Dynamic programming problem. | CO4 |
| 13 | Demonstrate the Discrete Optimization using Cutting Plane method. | CO4 |
| 14 | Demonstrate the Discrete Optimization using Branch and Bound method., Dynamic programming problem | CO4 |
| 15 | Demonstrate the Discrete Optimization using Additive algorithm. | CO4 |