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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | OPERATIONS RESEARCH | 1. techniques to address specific application areas including transportation and logistics, production planning, inventory control, scheduling, location analysis, forecasting, and supply chain management.  2 The central objective of operations research is optimization, i.e., "to do things best under the given circumstances." This general concept has great many applications, for instance, in agricultural planning, biotechnology, data analysis, distribution of goods and resources, emergency and rescue operations, en  3. Three essential characteristics of operations research are a systems orientation, the use of interdisciplinary teams, and the application of scientific method to the conditions under which the research is conducted. | 1. Chalk and   Talk method   1. PPT | * Business   Ethics   * Human   values | PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO4:Conduct Investigations Of Complex Problems  PO6: Engineer and Society  PO9:INDIVIDUAL AND TEAM WORK  PO11:Project Management and Finance.  PO12: Life-long  Learning. |  |
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|  |  | PSO2:Problem Solving Skill |
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|  |  | CO1: Select and apply optimization techniques for various problems.  **CO2** Model the given problem as transportation and assignment problem and solve.  **CO3** Apply game theory for decision support system. |
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