Course Code : SOST E3025
Title : Operations Research and Information Systems
Type : Core

Learning Outcomes : At the end of this course, students will be able to, select and apply appropriate quantitative techniques for decision making in an organization, discuss the relevance of different information systems applied in organizations and design, create, maintain and manage database management systems.

Course Contents : Part I
Formulation of linear programming graphical method, simplex method, duality, sensitivity analysis, applications of linear programming. The assignment and travelling salesman problems: A linear programming formulation of the assignment problem, Branch and bound solution procedure transportation problem, Transportation problem solution algorithms, Handling special situations. Linear programming formulation of the transportation problems.

Part II

Methods of Teaching

And Learning : Seminars, Study guides, Tutorials, Assignments

Scheme of Assessments : Assignments 20%, Written Examination 80%.

Recommended Readings :


