Syllabus of Statistics

Operations Research

Credits: 04	Course Code: B060602T	Sem. VI
	External Max. Marks 75	Internal Max. Marks 25

Unit	Topic	No. of Lectures
I	History & background of OR, Applications and uses of OR in different fields, General Linear programming problems and their formulations,	06
II	Solving LPP by Graphical Method Solving LPP by Simplex method.	10
III	Method Solving LPP by Big-M method and Two phase Method.	08
IV	Transportation problem: North-west corner rule. Least cost method, Vogel,s approximation method. Optimum solution: Modi method.	10
V	Assignment Problem: Hungarian Method, Travelling Salesman Problem,	06
VI	Job sequencing: n jobs- 2 machines, n jobs- k machines, 2 jobs- n machines.	06
VII	Game theory: Introduction, Competitive Situations, Characteristics of Competitive Games. Rectangular game, Two-Person Zero-Sum game, minimax-maximin principle, Solution to rectangular game using graphical method.	08
VIII	Dominance rule to reduce the game matrix and solution of Payoff matrix with mixed strategy.	06

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