M.Com - I Semester No. I Operations Research CORE COURSE- 0901103

Course Content:

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Module No.	Topics / Chapters Name
I	Introduction to O.R.
	 Concept
	 Nature
	 Significance
	• Scope
	 Limitations
	O.R. models
II	Linear Programming
	 Concept of LPP
	 Advantages and Limitations
	 Graphical, Simplex Method
	and Big –M Method
	 Transportation Problem
	 Methods for solving TP
	- Unbalanced TP
	- MODI Method
	- Degeneracy
	- Prohibited Routes
	- Maximization Problem
	 Assignment Problem
	- Meaning
	- Unbalanced AP
	- AP with Restriction
	- Maximization Problems
	- Travelling Salesman
	Problem
	 Applications of TP and AP
III	Game Theory And Sequencing
	Two persons zero sum game
	Pure games with saddle
	point
	Games without saddle point
	- Algebraic Method
	- Graphical Method
	- Conversation of Game
	problem into L. P. problem
	 Meaning and concept of
	sequencing

	 Processing 'n' jobs through two and three machines Applications of sequencing techniques
IV	Net-work Analysis (PERT & CPM)
	 Understanding PERT
	 Characteristics of PERT
	 Advantages and limitations of PERT
	 Understanding CPM
	 Time calculations in network
	 Difference between PERT and CPM
	 Applications of PERT and CPM