Departments of Mathematics & Computing

Lesson Plan

Session: 2021-2022

Subject: Operation Research (ESO)

Number of Lectures/ Tutorial per week: 03

Sr. No.	Topics	Expected no. of Lectures
1	Linear Programming Problem	10
	Definition and various terms related	
	to LPP, Graphical Method, Simplex	
	Method	
2.	Big-M Method, Degenerate LP	9
	Problem, Statement and proof of	
	related theorems Revised Simplex	
	Method, Duality in LPP	
3.	Sequencing Problem	4
4.	Integer Programming	4
5.	Transportation Problem, Assignment	7
	Problem	
6.	Theory of games, two-person zero	5
	sum games with and without saddle-	
	points pure and mixed strategies,	
	graphical and simplex method of	
	solving game problems	
		Total: 39

Operation Research:

L-T-P: 3-0-0

Linear Programming Problem, Definition and various terms related to LPP, Statement and proof of related theorems, Graphical Method, Simplex Method, Big-M Method, Degenerate LP Problem, Revised Simplex Method, Duality in LPP, Sequencing Problems, Integer Programming, Transportation Problem, Assignment Problem, Theory of games, two-person zero sum games with and without saddle-points pure and mixed strategies, graphical and simplex method of solving game problems

Reference Books:

Operation research: Kanti Swarup, P. K. Gupta, Man Mohan

Operation research: S. D. Sharma

Amung Jayswal)