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 Definition and various terms related to LPP, Graphical Method, Simplex Method	10
2.	Big-M Method, Degenerate LP Problem, Statement and proof of related theorems Revised Simplex Method, Duality in LPP	9
3.	Sequencing Problem	4
4.	Integer Programming	4
5.	Transportation Problem, Assignment Problem	7
6.	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	5
		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

(Anurag Jayswal)