

Curriculum Plan: B. Sc Maths III Year (Semester V) Linear Programming and Applications. ODD SEM (2025-26)

Teacher Profile: Mrs. Anjali Department of Mathematics Kalindi College, University of Delhi, Delhi- 110008 Mobile: +91-8708175676 E- mail: anjali@kalindi.du.ac.in			Marks Distribution	Theory	90 Marks	
				Internal Assessment	Assignments	12 Marks
					Class- Test	12 Marks
					Attendance	6 Marks
				Tut Assessment	40 Marks	
			Classes Assigned	Total Marks	160	
Lectures	1 per week					
Practical Groups (per week per Student)						
Reference	[1]	Bazaraa, Mokhtar S., Jarvis, John J., & Sherali, Hanif D. (2010). Linear Programming and Network Flows (4th ed.). John Wiley and Sons. Indian Reprint.				
	[2]	Hillier, Frederick S. & Lieberman, Gerald J. (2021). Introduction to Operations Research (11th ed.). McGraw-Hill Education (India) Pvt. Ltd.				
	[3]	Taha, Hamdy A. (2017). Operations Research: An Introduction (10th ed.). Pearson.				
Section	Week					
Session 1	1 st week					
	2 nd week					
Session 2	3 rd week					
	4 th week					
	5 th week					
	6 th week	Simplex Method: Optimal solution.				
Session 3	7 th week	Termination criteria for the optimal solution of the Linear Programming problem.				
	8 th week	Unique and alternate optimal solution.				
	9 th week	Simplex algorithm and its Tableau format.				
	10 th week	Assignment problem on the Simplex algorithm and its Tableau format.				
Session 4	11 th week	Artificial variables.				
	12 th week	Two-phase method.				
	13 th week	Continue the two-phase method and its assignment problem.				
	14 th week	Big-M method.				
Session 5	15 th , 16 th week	Revision and assignment Problems.				