

Lecture Plan		
Name of the College: Government College of Arts, Science and Commerce, Sanquelim-Goa		
Name of Faculty: Deepak G Bandiwadekar	Subject: Mathematics	
Paper code: MAT-324 (Practical)	Program: B.Sc.	Division: -
Academic year: 2025-26	Semester: VI	Total Lectures: 30
Course Objectives:		
1. To apply various optimisation techniques for decision making.		
Expected Course Outcome:		
1) Students will be able to understand the concepts of Project management, Game Theory, Inventory & Queueing theory by exclusive problem solving		
Student Learning Outcome: Student will be able get practical knowledge of		
1) Determining critical activities of a project & its completion time.		
2) Applying the concepts of Game theory for policy framing		
3) the Concepts of minimising queue length & service facilities		
4) the maintenance of Inventories & related concepts.		

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
December	01/12/2025	06/12/2025	St. Francis Xaviers Feast 02	Introduction, topic sharing			Operations Research Kanti Swarup Gupta & Manmohan
	08/12/2025	13/12/2025	02	Critical Path Method			
	15/12/2025	20/12/2025	Liberation Day 02	Graphical solution of $2 \times n$ games			
	22/12/2025	23/12/2025	00	-----			
January	02/01/2026	03/01/2026	00	-----			
	05/01/2026	10/01/2026	02	Graphical solution of $m \times 2$ games			
	12/01/2026	17/01/2026	02	Dominance property			
	19/01/2026	24/01/2026	02	(M/M/1); (∞ /FIFO), (M/M/1); (N/FIFO),			
	26/01/2026	31/01/2026	02 Republic Holiday	(M/M/C; (∞ /FIFO), (M/M/C); (N/FIFO),			
February	02/02/2026	07/02/2026	02	EOQ without shortages			
	09/02/2026	14/02/2026	02	EOQ with instantaneous production			

				with shortages			
	16/02/2026	21/02/2026	02	one period problems uniform demand			
	23/02/2026	28/02/2026	02	one period problems instantaneous demand			
March	02/03/2026	07/03/2026	02 Holi	Revision			
	09/03/2026	14/03/2026	02	Tentative Exam date			
	16/03/2026	21/03/2026	00 Gudi Padva / Id-UI Fitr	-----			
	23/03/2026	28/03/2026	02 Ram Navami	Tentative Exam date			
	30/03/2026	31/03/2026	00				

*** Assessment Rubrics**

Component	Max Marks
ISA 1	Nil
ISA 2	Nil
Practical	25

Project	Nil
Semester End Exam	--