

## Lecture Plan

<b>Name of the College:</b> Government College of Arts, Science and Commerce, Sanquelim-Goa		
<b>Name of Faculty:</b> Deepak G Bandiwadekar		<b>Subject:</b> Mathematics
<b>Paper code:</b> MAT-324 (Practical)	<b>Program:</b> B.Sc.	<b>Division:</b> -
<b>Academic year:</b> 2025-26	<b>Semester:</b> VI	<b>Total Lectures:</b> 30
<b>Course Objectives:</b> <ol style="list-style-type: none"><li>1. To apply various optimisation techniques for decision making.</li></ol>		
<b>Expected Course Outcome:</b> <ol style="list-style-type: none"><li>1) Students will be able to understand the concepts of Project management, Game Theory, Inventory &amp; Queueing theory by exclusive problem solving</li></ol>		
<b>Student Learning Outcome:</b> Student will be able get practical knowledge of <ol style="list-style-type: none"><li>1) Determining critical activities of a project &amp; its completion time.</li><li>2) Applying the concepts of Game theory for policy framing</li><li>3) the Concepts of minimising queue length &amp; service facilities</li><li>4) the maintenance of Inventories &amp; related concepts.</li></ol>		

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); ( $\infty$ /FIFO), (M/M/1); ( $N$ /FIFO),			
	26/01/2026	31/01/2026	02 Republic Holiday	(M/M/C; ( $\infty$ /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-Ul 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	--