

Lecture Plan		
Name of the College: Government College of Arts, Science and Commerce, Sanquelim-Goa		
Name of Faculty: Aaron Alphonso	Subject: Mathematics	
Paper code: MAT-5002	Program: M.Sc.	Division: -
Academic year: 2025-26	Semester: I	Total Lectures: 60
Course Objectives:		
1. To prepare students to handle solving problems involving linear equations 2. Determining the qualitative properties of the solution set.		
Expected Course Outcome:		
1) Display familiarity and knowledge of Vector Spaces, Linear Transformations and associated concepts 2) Demonstrate proofs to establish truths related to Vector Spaces, Linear Transformations and associated concepts 3) Choose the appropriate procedures and modify then if needed to solve method-based problems in Linear Algebra 4) Analyze and solve unseen problems in Linear Algebra and invent mathematically precise arguments to justify their solutions.		
Student Learning Outcome: Student will be able to		
1) Display familiarity and knowledge of Vector Spaces, Linear Transformations and associated concepts 2) Demonstrate proofs to establish truths related to Vector Spaces, Linear Transformations and associated concepts		

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
June	27/06/2025	28/06/2025	2			Smart Board PDF	John B. Fraleigh ,
July	30/06/2025	05/07/2025	4			Smart Board PDF	Kenneth Hoffmann and Ray Kunze, Linear Algebra
	07/07/2025	12/07/2025	4				Kenneth Hoffmann and Ray Kunze, Linear Algebra
	14/07/2025	19/07/2025	4			Data projector	Kenneth Hoffmann and Ray Kunze, Linear Algebra
	21/07/2025	26/07/2025	4				Kenneth Hoffmann and Ray Kunze, Linear Algebra
July August	28/07/2025	02/08/2025	4				Kenneth Hoffmann and Ray Kunze, Linear Algebra
August	04/08/2025	09/08/2025	4			Smart Board	Kenneth Hoffmann and Ray Kunze, Linear Algebra
	11/08/2025	16/08/2025	3 Independence Day				Kenneth Hoffmann and Ray Kunze, Linear Algebra

	18/08/2025	23/08/2025	4			Smart Board PDF	Kenneth Hoffmann and Ray Kunze, Linear Algebra
	25/08/2025	30/08/2025	0 Chaturthi Break 26/08/25 To 01/09/25				Kenneth Hoffmann and Ray Kunze, Linear Algebra
September	02/09/2025	06/09/2025	3			Smart Board	Kenneth Hoffmann and Ray Kunze, Linear Algebra
	08/09/2025	13/09/2025	4				Kenneth Hoffmann and Ray Kunze, Linear Algebra
	15/09/2025	20/09/2025	4			Smart Board	Kenneth Hoffmann and Ray Kunze, Linear Algebra
	22/09/2025	27/09/2025	4			Smart Board	
September October	29/09/2025	04/10/2025	3 Gandhi Jayanti / Dussehra				Kenneth Hoffmann and Ray Kunze, Linear Algebra
October	06/10/2025	11/10/2025	4				Kenneth Hoffmann and Ray Kunze, Linear Algebra
	13/10/2025	18/10/2025	4				Kenneth Hoffmann and Ray Kunze, Linear Algebra

*** Assessment Rubrics**

Component	Max Marks
ISA 1	20
ISA 2	20
ISA 3	20
Practical	Nil
Project	Nil
Semester End Exam	40