Tentative Weekly Lectures Schedule:

Weeks	Contents/Topics	Remarks	Exercises	CLO's	Tools
	Introduction, System of				
Week 1	Linear equations,		1.1 (1-20)		
	Elementary row operation				
	Solving system of Linear equations:				
	Gaussian Elimination and Gauss Jordan		1.2 (1-26)		
Week 2	methods	Assignment 1	1.5 (1-6, 11-18)		
	Matrix Operations	1 issignment i	1.6 (1-20)		
	Elementary Matrices, Methods for				
	finding Inverse, Invertible Matrices,				
	Diagonal, triangular, and symmetric		1.7 (1-10, 19-28)		Q1, A1,
Week 3	matrices,		1.8 (1-24, 27-41)	1	M1, F
	Matrix Transformations		(CLO 2)		,
	Application no 1:		1.10 (1-4)		
Week 4	Network Analysis	Quiz 1	(CLO 3)		
	Determinants and their properties,		2.1 (1-32)		
	Minors, Cofactors, Inverse using		2.2 (1-23)		
	cofactors, Cramer's Rule		2.3 (1-29,31,32)		
	General Vector Space		4.1 (1,2,9,11, 12)		
Week 5	Subspaces		Example: 1-5,7 4.2 (1-5, 19)		
			Example: 1-6,13		
Week 6		1 st Mid Term Ex			
WEEK U	Spanning Sets		4.3 (1-20)		
Week 7	Linear Independence		4.4 (1-15)		
	Coordinates and Bases		4.5 (1-22)		
	Dimensions		4.6 (1-8,10,12-		
Week 8	Change of basis	Quiz 2	13,15-20)		Q2, A2,
			4.7 (1-19)	2	M2, F
T.7 1 0	Bases for row, column, and null spaces,		4.8 (1-19,21-30)		,
Week 9	Rank and Nullity	Assignment 2	4.9 (1-14,19-36)		
T. 1.40	Eigenvalues and Eigenvectors		5.1 (1-16)	1	
Week 10	Diagonalization		5.2 (1-20)		
Week 11	2 nd Mid Term Exam				
	Inner product spaces, Orthogonal		6.1 (1-26)		
Week 12	and orthonormal bases, Gram-	Assignment 3	6.2 (1-12, 17-19)		
	Schmidt Process;		0.2 (1-12, 17-19)		
	QR-Decomposition. Orthogonal		6.3 (1-14, 27-31,	2	
Week 13	Matrices		44-49)		Q3, A3, P,
			7.1 (1-6) (CLO 1)		Ç5, 75, 1, F
Week 14	Orthogonal Diagonalization, Quadratic	Quiz 3	7.2 (1-18) (CLO 1)		T.
WCCR 14	Forms	Quiz 5	7.3 (1-8(CLO 1)		
	Application no 2:				
Week 15	Single Value Decomposition	Presentation	9.4	3	
	Markov Chains		5.5		
Week 16	Revision				