

Contents/Topics		
Determinants and their properties, Minors, Cofactors, Inverse using cofactors, Cramer's Rule	30%	<b>2.1</b> (1-32) <b>2.2</b> (1-23) <b>2.3</b> (1-29,31,32)
General Vector Space Dimensions		<b>4.1</b> (1,2,9,11, 12) Example no 1-5,7 <b>4.6</b> (1-8,10,12-13,15-20)
Eigenvalues and Eigenvectors Diagonalization Markov Chains	70%	<b>5.1</b> (1-16) <b>5.2</b> (1-20) <b>5.5</b> (1-10)
Inner product spaces, Orthogonal and orthonormal bases Gram-Schmidt Process, QR- Decomposition.		<b>6.1</b> (1-26) <b>6.2</b> (1-12, 17-19) <b>6.3</b> (1-14, 27-31,44-49)
Orthogonal Matrices Orthogonal Diagonalization Quadratic Forms		<b>7.1</b> (1-6) <b>7.2</b> (1-18) <b>7.3</b> (1-8)
Single Value Decomposition		<b>9.4</b> (1-12)