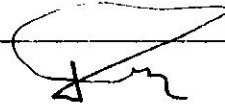


NAME Jitender Singh RAWAT
Class - B.Sc. I (N.M.) A Ist Sem.
and B.A. I year (Art with Math)
Ist Sem.

July	Symmetric, Skew symmetric, Hermitian and skew Hermitian matrices. Elementary Operations on matrices.
August	Rank of a matrices. Inverse of a matrix. Linear dependence and independence of rows and columns of matrices. Row rank and column rank of a matrix. Eigenvalues, eigenvectors and the characteristic equation of a matrix. Minimal polynomial of a matrix. Cayley Hamilton theorem and its use in finding the inverse of a matrix.
September	Applications of matrices to a system of linear (both homogeneous and non-homogeneous) equations. Theorems on consistency of a system of linear equations. Unitary and Orthogonal Matrices, Bilinear and Quadratic forms.
October	Relations between the roots and coefficients of general polynomial equation in one variable. Solutions of polynomial equations having conditions on roots. Common roots and multiple roots. Transformation of equations.
November	Nature of the roots of an equation Descarte's rule of signs. Solutions of cubic equations (Cardon's method). Biquadratic equations and their solutions.



NAME Dr. Jitendra Singh Kaur

Class - B.Com. I Band D.

<u>Months</u>	<u>Chapters</u>	<u>Description</u>
<u>July</u> <u>August, 2018</u>	<u>I, II, III</u>	<u>Theory of sets, Indices,</u> <u>Logarithms,</u> <u>Group discussion & Test</u>
<u>September,</u> <u>2018</u>	<u>(IV)</u>	<u>Permutations and</u> <u>Combinations,</u> <u>Group Discussion & Test</u>
<u>October, 2018</u>	<u>(V)</u>	<u>Sequences and Series,</u> <u>Arithmetic & Geometric</u> <u>Progressions,</u> <u>Group Discussion & Test</u>
<u>November, 2018</u>	<u>(VI)</u>	<u>Introduction, Approaches to</u> <u>data interpretation,</u> <u>Tabulation, line graph,</u> <u>mix graph,</u> <u>Group discussion & Test</u>

