Sr.	Lecturer/Lab	Name of the topic	%Syllabus	Date of
No.			Covered	topic
1	Week-1	Rank of a matrix, elementary transformations, elementary matrices.		
	1,2,3			
2		Inverse using elementary transformations, normal form of a matrix.		
3	Week-2	Consistency of System of linear equations. Symmetric, skew-symmetric,		
	1,2,3	and orthogonal Matrices.		
4		Eigenvalues, eigenvectors, eigen bases, properties of eigen values.		
5	Week-3	Cayley-Hamilton Theorem and its applications.		
	1,2,3			
6		Diagonalization of matrices.		
7	Week-4	Functions of two or more variables, partial derivatives.		
	1,2,3			
8		Total derivative.		
9	Week-5	Derivative of composite and implicit functions.		
	1,2,3			
10		Homogeneous functions, Euler's theorem.		
11	Week-6	Definition of definite integrals and their problems.		
	1,2,3			
12		Improper integrals and their problems.		
13	Week-7	Beta and Gamma functions and their properties.		
1.4	1,2,3	Delation last and Detained Community of and in		
14	Wasts 9	Relation between Beta and Gamma function,		
15	week-8	Reduction formula for Gamma function.		
16	1,2,3	Applications of definite integrals to evaluate surface areas and volumes		
10		of revolutions in Cartesian coordinates		
17	Week-9	Rolle's theorem Lagrange's mean value theorem. Cauchy mean value		
1,	1.2.3	theorem.		
18	-,-,-	Taylor's and Maclaurin theorems with remainders.		
19	Week-10	Indeterminate forms and L'Hospital's rule.		
	1,2,3			
20		Maxima and minima.		
21	Week-11	Jacobian, Taylor's and Maclaurin's theorem for function of two		
	1,2,3	variables.		
22		Maxima, minima and saddle points of functions of two variables.		
23	Week-12	Method of Lagrange multipliers.		
	1,2,3			
24		Differentiation under the integral sign.		
25	Week-13	Introduction to sequence and Infinite series, Test for		
	1,2,3	convergence/divergence, Comparison test.		
26		D'Alembert's ratio test, Cauchy Root test, Raabe's test, Cauchy integral		
		test, Logarithmic test.		
27	Week-14	Alternating series, Absolute convergence and conditional convergence.		
20	1,2,3			
28		1 aylor's series, series for exponential, trigonometric and logarithmic		
20	Wash 15	Tunctions.		
29	week - 15	Query and Solution		