1.	1 st 2 nd & 3 rd week		ation of a matrix –Eigen values –	halk and talk.
	100	Diagonalization of Theorem (without	of matrix – Cayley-Hamilton proof) verification – Finding ver of a matrix using it –	~
		Quadratic form -	Definite and indefinite forms – etion of quadratic form to	
2.	4 th & 5 th week	Introduction to sequences. Infinite series- Convergence Tests for positive term series – Comparison, integral test, Root, Ratio test, Raabe's tests. logarithmic test.		
3.	6 th week	Assessment -1		4
4.	6 th , 7 th & 8 th week	Alternating series – Leibnitz's rule – Absolute and Conditional Convergence. Riemann rearrangement theorem (without proof).		
		Functions of several variables – Partial derivatives and Transformation of variables – Jacobian and its Properties. Taylor series-Maxima and Minima of function of two variables.		
5.	9 th & 10 th week	Double integral – Changing the order of Integration – Change of variables from Cartesian to Polar Coordinates – Area using double Integral in Cartesian and Polar Coordinates		
6.	11 th week	Assessment - 2		
7.	11 th week	Triple integral – Change of Variables from Cartesian to Spherical and Cylindrical Coordinates – Volume using double and triple integrals.		
8.	After 12 th week	Assessment - 4		
COURSE ASSESSMENT METHODS				
S. No.	Mode of Assessment	Week/Date	Duration	% Weightage
1.	Assessment - 1	6 th week	1 hour	20%
2.	Assessment - 2	11 th week	1 hour	20%
3.	Assessment - 3	Will be announced at the time of		10%