

MATHEMATICS DEPARTMENT

SESSION-(2019-20)

WEEKLY TEACHING PLAN

Prof.Pratibha Saini, Prof. Dalvinder Singh, Prof. Kirti

Class-B.Sc/B.A. (sem 3)

Weeks	PAPER-1 Advance Calculus	PAPER-2 Analysis 1	PAPER-3 Statics
1	Limit and Continuity of Functions of Several Variables	Sequences	Basics Concepts
2	Limit and Continuity of Functions of Several Variables	Sequences	Concurrent Forces
3	Partial Derivatives	Sequences	Concurrent Forces
4	Partial Derivatives	Infinite Series	Equilibrium of three forces
5	Partial Derivatives	Infinite Series	Equilibrium of three forces
6	Jacobians	Infinite Series	Parallel forces
7	Jacobians	Infinite Series	Moments
8	Maxima and Minima	Riemann Integration	Couples
9	Maxima and Minima	Riemann Integration	Coplanar Forces
10	Double and triple Integrals	Riemann Integration	Coplanar Forces
11	Double and triple Integrals	Riemann Integration	Friction
12	Double and triple Integrals	Function of bounded Variation	Friction
13	Revision	Revision	Revision
14	MST		
15	Applications of Double and Triple Integrals	Function of bounded Variation	Center Of Gravity
14	Applications of Double and Triple Integrals	Function of bounded Variation	Center Of Gravity


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Weeks	PAPER-1 Analysis 2	PAPER-2 Numerical methods	PAPER-3 Dynamics
1	Sequences and series of a function	Solution of equations- Regula Falsi and Secant method	Basic concepts
2	Sequences and series of a function	Solution of equations- Regula Falsi and Secant method	Motion with constant acceleration
3	Sequences and series of a function	Newton Raphson and iterative method	Motion with constant acceleration
4	Sequences and series of a function	Newton Raphson and iterative method	Newton laws of motion
5	Power series	System of linear equations	Motion with variable acceleration
6	Power series	System of linear equations	Motion with variable acceleration
7	Differentiation of vectors	System of linear equations	Simple harmonic motion
8	Gradient , divergence and curl	System of linear equations	Simple harmonic motion
9	Gradient . divergence and curl	Interpolation	Oscillation
10	Vector integration	Finite differences	projectiles
11	Vector integration	Shift and mean operators	projectiles
12	Gauss, green and stokes theorem	Shift and mean operators	Work power and energy
13	Gauss, green and stokes theorem	Central difference formula	Relative motion
14	Gauss, green and stokes theorem	Unequally spaced interval	Momentum and impulse


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