MATHEMATICS DEPARTMENT

SESSION-(2021-22)

WEEKLY TEACHING PLAN

Class-B.Sc/B.A. (sem 2)

Dr. Dalvinder Singh, Prof. Kirti & Prof. Jagjit Singh

Weeks	PAPER-1 Calculus	PAPER-2 PARTIAL DIFFERENTIAL EQUATIONS	PAPER-3 ANALYTIC GEOMETRY
1	Integral Calculus	Partial differential equation of first order	The General equation of Second Degree
2	Integral Calculus	Partial differential equation of First order but of any degree	Polar equation of A Conic
3	Integral Calculus	Partial differential equation of First order but of any degree	Polar equation of A Conic
4	Vector Algebra	Partial differential equation of second order and Higher Degree	Oblique Axes
5	Vector Algebra	Partial differential equation of second order and Higher Degree	Oblique Axes
6	Vector Algebra	Homogenous Partial differential equation with constant coefficients	Sphere
7	Vector Integration	Homogenous Partial differential equation with constant coefficients	Sphere
8	Vector Integration	Non-Homogenous Partial differential equation with constant coefficients	Sphere
9	Gauss theorem	Non-Homogenous Partial differential equation with constant coefficients	The cone
10	Green theorem	Heat, wave and Laplace equations	The cone
11	Stoke's theorem	Heat, wave and Laplace equations	The cylinder
12	Surface area and surface integrals	Two dimension Laplace equations	The cylinder
13	MST	MST	MST
14	Revision	Revision	Revision

Dr. Dalvinder Singh
Head of Department

Principal
Govt. College
Ropar

MATHEMATICS DEPARTMENT

SESSION (2021-2022)

WEEKLY TEACHING PLAN

Class-B.Sc /B.A. (Sem 1)

Prof.Dalvinder Singh , Prof.Kirti , Prof. Jagjit Singh

Weeks	PAPER-1 CALCULAS	PAPER-3 DIFFERENTIAL EQUATIONS	PAPER-2 Linear Algebra
1	Limit and Continuity of a Function	Order & degree of differential equation	Rank of a matrix
2	Limit and Continuity of a Function	Differential equation of first order and first degree	Linear dependence and Independence of vectors
3	Differentiability of Functions	Exact differential equation	Linear Equations
4	Successive differentiation	Linear equation with constant coefficients	Eigen Values and Cayley-Hamilton Theorem
5	Successive differentiation	Linear equation with variable coefficients	Eigen Values and Cayley-Hamilton Theorem
6	Concavity and convexity, Asymptotes	Differential Operator Method	Vector Spaces
7	Curve Tracing	Solution of differential equation in series	Vector Spaces
8	Curve Tracing	Bessel's equations, Functions and their Properties	Basis and dimension
9	Limit and Continuity of a Functions of Two Variables	Legendre's equations, Functions and their Properties	Linear Transformation
10	Partial Derivatives,	Legendre's equations, Functions and their Properties	Linear Transformation
11	Maxima and Minima	Hyper Geometric equations, Functions and their Properties	Linear Transformation and Matrices
12.	Taylor's Theorem	Hyper Geometric equations, Functions and their Properties	Linear Transformation and Matrices
13.	MST	MST	MST
14	Revision	Revision	Revision

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