MATHEMATICS DEPARTMENT
SESSION-(2018-2019)
WEEKLY TEACHING PLAN

Prof. Pratibha Saini   &   Prof.Dalvinder singh   Class-B.Sc/B.A(sem 1)

Weeks	PAPER-1 CALCULAS	PAPER-2 COORDINATE GEOMETRY	PAPER-3 DIFFERENTIAL EQUATIONS
1	Successive differentiation	change of origin	Order & degree of differential equation
2	Successive differentiation Concavity and convexity	change of origin	Order & degree of differential equation
3	Concavity and convexity Multiple points	Pair of straight lines	Differential equation of first order and first degree
4	asymptotes	Pair of straight lines	Differential equation of first order and first degree
5	Asymptotes curvature	Pair of straight lines	Exact differential equation
6	Curvature, Integration of hyperbolic functions	parabola	Exact differential equation, Linear equation with constant coeffecients
7	Integration of hyperbolic functions, reduction formulas	parabola	Exact differential equation, Linear equation with constant coeffecients
8	Reduction formulas	parabola	Linear equation with variable coeffecients
9	Reduction formulas	ellipse	Linear equation with variable coeffecients
10	Rectification	ellipse	Linear equation with variable coeffecients
11	Quadrature	General equation of second degree	Solution of differential equation in series
12	Improper integral	General equation of second degree	Solution of differential equation in series
13	Improper integral	hyperbola	Bessel's equtions
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15	Beta and gamma functions	hyperbola	Bessel's equtions
16	Revision	Revision	Revision

PRATIBHA SAINi
Head of Department

Principal
Govt. College
Ropar

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SESSION-(2018-19)
WEEKLY TEACHING PLAN

Prof. Pratibha Saini & Prof. Kirti   Class-B.Sc/B.A(sem 2)

Weeks	PAPER-1 ALGEBRA	PAPER-2 ANALYTIC GEOMETRY	PAPER-3 PARTIAL DIFFERENTIAL EQUATIONS
1	Hermitian and skew hermitian matrices	The plane	Partial differential equation of first order
2	Rank of a matrix	The plane	Partial differential equation of first order
3	Rank of a matrix	The plane	Partial differential equation of first order
4	Eigen values	The straight lines	Partial differential equation of first order
5	Eigen vectors	The straight lines	Partial differential equation of second order
6	System of linear equations	The straight lines	Partial differential equation of second order
7	Relation between roots and coeffecients of a polynomial equation	Intersection of planes	Partial differential equation of second order
8	Relation between roots and coeffecients of a polynomial equation	Intersection of planes	Partial differential equation with constant coeffecients
9	Transformation of an equation	The sphere	Partial differential equation with constant coeffecients
10	Transformation of an equation	The sphere	Partial differential equation with constant coeffecients
11	Descarte's rule of signs, Solution of cubic and biquadratic equation	The sphere	Heat, wave and laplace equations
12	Demoivre's theorm	The cone	Heat, wave and laplace equations
13	Demoivre's theorm and its applications , elementary functions of a complex variable	The cone	Heat, wave and laplace equations
14	elementary functions of a complex variable, summation of series	The cone	Revision

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