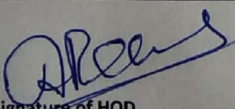
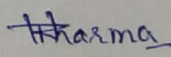


LESSON PLAN

Name of Faculty		Rajni Sharma
Department		Applied Science & Humanities
Semester		2nd
Subject		Mathematics - II
Lesson Plan for the Duration		22 Feb. 2023 to 15 June 2023
Week	Theory	
1st(22 -28 Feb.2023)	Determinants	Determinants: Elementary properties of determinants upto 3rd order, consistency of equations, Cramer's rule.
2nd(01-07March 2023)	Matrices	Matrix: Algebra of matrices, Inverse of a matrix, matrix
3rd(09-16 March 2023)	Matrices	Matrix: Matrix inverse Method to solve a system of linear equations in 3 variables.
4th (17-23 March 2023)	Integral Calculus	Intergration as inverse operation of differentiation.
5th(24-31 March 2023)	Integral Calculus	Simple intergration by substitution, by parts and by partial fraction(for linear factors only).
6th(01-10 April 2023)	Integral Calculus	Use of formulas for solving problems. When m, are positive integers.
7th(11-19 April 2023)	Integral Calculus	Applications for: (i) simple problems on evaluation of area bounded by a curve and axis .
8th(20-27 April 2023)	Integral Calculus	Applications for: (ii)Calculation of volume of a solid formed by revolution of an area about axis.
9th(28 April-04 May 2023)	Co-ordinate Geometry	Co-ordinate Geometry Equations of straight lines in various standard forms (without proof), intersection of two straight lines .
10th(06-11 May 2023)	Co-ordinate Geometry	Angle between two lines .Parallel and perpendicular lines,Perpendicular Distance formula
11th(12-19 May 2023)	Co-ordinate Geometry	General equation of a circle and its characteristics. To find the equation of a circle given: center and radius, Three points lying on it, coordinates of end points of a diameter.
12th(20-26May 2023)	Co-ordinate Geometry	Definition of conics(parabola, Ellipse, Hyperbola) their standard equations without proof.
13th (27May-02 June 2023)	Co-ordinate Geometry	Problems on conics when their foci, directrices or vertices are given.
14th(03-09 June 2023)	Differential Equations	Solution of first order and first degree differential equation by variable separation
15th(12-15June 2023))	Differential Equations	Solution of first order and first degree differential equation by variable separation


Signature of HOD


Signature of Teacher
Rajni Sharma
(Lect. Mathematics)