

LESSON PLAN SUMMER(2025-26)

DISCIPLINE: Mathematics		SEMESTER: 2ND		NAME OF THE TEACHING FACULTY: Smt sanghamitra Nath	
Subject: Mathematics-II		No. of Days/per week class allotted:		Semester From date:09.01.2026 to Date : 08.05.2026	
Total period allotted: 60		No. of Weeks: 15		No of periods allotted	
Week	Class Day	Theory Topics			
1ST	1st	UNIT - I: Determinants and Matrices Elementary properties of determinants up to 3rd order		1	
	2nd	consistency of equations,		1	
	3rd	Crammer's rule. Algebra of matrices,		1	
	4th	Inverse of a matrix		1	
2nd	1st	matrix inverse method to solve a system of linear equations in 3 variables		1	
	2nd	matrix inverse method to solve a system of linear equations in 3 variables		1	
	3rd	UNIT - II: Integral Calculus Integration as inverse operation of differentiation		1	
	4th	Simple integration by substitution,		1	
3rd	1st	by parts		1	
	2nd	and by partial fractions (for linear factors only).		1	
	3rd	Use of formulas , and for solving problems Where m and n are positive integers.		1	
	4th	Applications of integration for i. Simple problem on evaluation of area bounded by a curve and axes.		1	
4th	1st	problems		1	
	2nd	ii. Calculation of Volume of a solid formed by revolution of an area about axes. (Simple problems).		1	
	3rd	UNIT - III: Co-Ordinate Geometry Equation of straight line in various standard forms (without proof),		1	
	4th	inter section of two straight lines,		1	
5th	1st	angle between two lines.		1	
	2nd	Parallel and perpendicular lines,		1	
	3rd	perpendicular distance formula.		1	
	4th	General equation of a circle and its characteristics.		1	
6th	1st	Problems		1	
	2nd	To find the equation of a circle, given: ii. Centre and radius, iii. Three points lying on it		1	
	3rd	and iv. Coordinates of end points of a diameter;		1	

	4th	Definition of conics (Parabola, Ellipse, Hyperbola)	1
7th	1st	their standard equations without proof.	1
	2nd	Problems on conics when their foci,	1
	3rd	directories or vertices are given.	1
	4th	UNIT -IV: Vector Algebra Definition notation and rectangular resolution of a vector.	1
8th	1st	Addition and subtraction of vectors.	1
	2nd	Scalar and vector products of 2 vectors.	1
	3rd	Simple problems related to work,	1
	4th	moment and angular velocity.	1
9th	1st	UNIT-V: Differential Equations Solution of first order and first degree differential equation by variable separation method	1
	2nd	problems	1
	3rd	MATLAB – Simple Introduction	1
	4th	problems	1
10th	1st	Revision	1
	2nd	Revision	1
	3rd	Revision	1
	4th	Revision	1
11th	1st	Revision	1
	2nd	Revision	1
	3rd	Revision	1
	4th	Revision	1
12th	1st	Revision	1
	2nd	Revision	1
	3rd	Revision	1
	4th	Revision	1
13th	1st	Revision	1
	2nd	Revision	1
	3rd	Revision	1
	4th	Revision	1
14th	1st	Revision	1
	2nd	Revision	1
	3rd	Revision	1
	4th	Revision	1
15th	1st	Revision	1
	2nd	Revision	1
	3rd	Revision	1
	4th	Revision	1


 09/01/2026
 Prepared by
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 09/01/26
 Head of the Department


 09/01/26
 Academic Co ordinator