LESSON PLAN WINTER 23

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DISCIPLINE : Mathematics		SEMESTER:1	NAME OF THE TEACHING FACULTY: Smt Mamata Nayak,Smt. Sanghamitra Nath,Smt Supriya Khatua,				
			Smt Sashmita Sahoo				
		Days/per week class allotted:					
	Total Periods allott	ed : 75	No. of Weeks: 15				
Sl No	Week	Class Day	Theory/Practical Topics	No of periods allotted			
	4TH Week/ August 2023	day 1	1. DETERMINANT:1.1 Determinant	1			
		day 2	1.1. Determinant	1			
1		day 3	1.2.Minors	1			
		day 4	1.3. properties of determinant	1			
		day 5	1.4 solution of simultaneous linear equations by Cramer's rule	1			
2		day 1	1.4 solution of simultaneous linear equations by Cramer's rule	1			
	5TH Week/	day 2	2. Matrix:- 2.1 matrix and it's order	1			
	AUGUST 2023	day 3	2.2 types of matrices with examples	1			
		day 4	2.2 types of matrices with examples	1			
		day 5	2.3 equality of matrices	1			
	1ST Week/ SEPTEMBER 2023	day 1	2.4 multiplicative inverse of a matrix	1			
		day 2	2.5 Solution of simultaneous equations by matrix method	1			
3		day 3	important questions of matrix and determinant.	1			
		day 4	Solve Question from the book Elements of mathematics	1			
		day 5	3. Trigonometry: - 3.1. Trigonometrical ratios.	1			
	2ND Week/ SEPTEMBER 2023	day 1	3.1. Trigonometrical ratios	1			
		day 2	3.2. problems on Compound angles	1			
4		day 3	3.3.multiple angles	1			
		day 4	3.3. multiple angles	1			
		day 5	3.3. problems on multiple angles	1			
5	3RD Week/ SEPTEMBER 2023	day 1	3.4. problems on Sub-multiple angles	1			
		day 2	3.5. Define inverse circular functions	1			
		day 3	3.5. Problems on inverse circular functions	1			
		day 4	3.6. properties of inverse circular functions	1			
		day 5	Solve Question from the book Elements of mathematics	1			
6	4TH Week/ SEPTEMBER 2023	day 1	4. Co-ordinate Geometry in Two Dimension : - 4.1. Introduction of Geometry in two dimension.	1			
		day 2	4.2 . Distance formula and problems.	1			
		day 3	4.2 . Division formula and problems.	1			
		day 4	4.2 area of a triangle. 4.3 Define slope of a line	1			
		day 5	4.3 angle between two lines, conditions of parallelism and perpendicularity	1			
7	1ST Week/ OCTOBER 2023	day 1	4.4. Different forms of straight-lines:- (i) slope and intercept form (ii) slope and one point form (iii) two point form (iv) intercept form (v) perpendicular form and problems of all forms	1			
		day 2	4.5 . Equation of a line passing through a point and parallel to a line ,Equation of a line passing through a point and perpendicular to a line	1			
	OCTODER 2023	day 3	4.6. Equation of a line passing through the intersection of two lines	1			

		day 4	4.7. Distance of a point from a line and distance between two parallel lines	1
		day 5	Important problems on co-ordinate Geometry	1
8	2ND Week/ OCTOBER 2023	day 1	5. Circle : 5.1. Equation of a circle (I) center radius from and problems	1
		day 2	5.2. general equation of a circle	1
		day 3	5.3.find center and radius of a circle	1
		day 4	5.4. end point of a diameter from	1
		day 5	5.5 equation of a circle passing through three given points.	1
	3RD Week/ OCTOBER 2023	day 1	6. CO-ORDINATE GEOMETRY IN THREE DIMENSION :- 6.1 analytical Geometry in three dimension.	1
9		day 2	6.2.distance formula, section formula	1
		day 3	6.3. direction cosines 6.4. relation between Direction cosines.	1
		day 4	6.5.Direction ratios	1
		day 5	6.6. projections.	1
	1st Week/ NOVEMBER 2023	day 1	6.7. direction ratios and direction cosines of the line joining two points	1
10		day 2	6.8. angle between two lines (conditions of parallelism and perpendicularity)	1
		day 3	6.10. Equation of a plane (I) general from	1
		day 4	6.11. equation of a plane through three non-colliear points.	1
		day 5	6.12. passing through a point and perpendicular to a plane.	1
	2nd Week/ NOVEMBER 2023	day 1	6.13.intercept form.	1
		day 2	6.14. planes parallel and perpendicular to co-ordinate axes.	1
11		day 3	6.15. normal form of equation of a plane.	1
		day 4	6.16. transformation of the general equation of a plane to normal form	1
		day 5	6.17. planes parallel to co-ordinate axes.	1
	3rd Week/ NOVEMBER 2023	day 1	6.18.angle between two planes.	1
		day 2	6.19. plane through the intersection of two planes	1
12		day 3	6.20. position of a pointwitg respect to a plane.	1
12		day 4	6.21. perpendicular distance of a point from a plane	1
		day 5	6.22.bisector of the angles between two planes. Important Problems on planes.	1
	4th Week/	day 1	7. SPHERE : - 7.1. Equation of a sphere (I) center and radius form	1
13	NOVEMBER	day 2	7.2. general equation of a sphere	1
13	2023	day 3	7.3. find center and radius of a sphere	1
		day 4	7.4. end point of a diameter from	1
		day 5	7.5. equation of sphere passing through three non-collinear points.	1
	5TH Week/	day 1	REVISION	1
	NOVEMBER 2023	day 2	REVISION	1
14		day 3	REVISION	1
		day 4	REVISION	1
		day 5	REVISION	1
15	1ST Week/	day 1	REVISION	1
	DECEMBER	day 2	REVISION	1
	2023	day 3	REVISION	1
	2025	day 4	REVISION	1
		day 5	REVISION	1