LESSON PLAN SUMMER(2022-23)

Diccip	TETRITIS, N.C. 41		SSON PLAN SUMMER(2022-23)	
DISCIPLINE: Mathematics SEMESTER:1 st No. of Days/per week class allotted: 05classes			NAME OF THE TEACHING FACULTY: Smt Mamata Nayak,Smt. Sanghamitra Nath,Smt Supriya Khatua, Smt Sashmita Sahoo Semester From date:25.10.2022 to Date:20.02.2023	
		Days/per week class allotted:		
	Total Periods allott	ed: 75	No. of Weeks: 16	
Sl No	Week	Class Day	Theory/Practical Topics	No of periods allotted
		day 1	1. DETERMINANT:1.1 Determinant	1
	4th Week/	day 2	1.1. Determinant	1
1	October 2022	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
		day 1	1.4 solution of simultaneous linear equations by Cramer's rule	1
	1st Week/	day 2	2. Matrix:- 2.1 matrix and it's order	1
2	November 2022	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
		day 1	2.4 multiplicative inverse of a matrix	1
	2nd Week/	day 2	2.5 Solution of simultaneous equations by matrix method	1
3	November 2022	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
		day 1	3.1. Trigonometrical ratios	1
	3rd Week/	day 2	3.2. problems on Compound angles	1
4	November 2022	day 3	3.3.multiple angles	1
		day 4	3.3. multiple angles	1
		day 5	3.3. problems on multiple angles	1
		day 1	3.4. problems on Sub-multiple angles	1
	4th Week/	day 2	3.5. Define inverse circular functions	1
5	November 2022	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
		day 1	4. Co-ordinate Geometry in Two Dimension : - 4.1. Introduction of Geometry in two dimension.	1
	1st Week/	day 2	4.2 . Distance formula and problems.	1
6	December 2022	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
		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
7	2nd Week/ December 2022	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
		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
		day 1	5. Circle : 5.1. Equation of a circle (I) center radius from and problems	1
	3rd Week/	day 2	5.2. general equation of a circle	1
8	December 2022	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
	4th Week/ December 2022	day 1	6. CO-ORDINATE GEOMETRY IN THREE DIMENSION :- 6.1 analytical Geometry in three dimension.	1
		day 2	6.2.distance formula, section formula	1
9		day 2	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/ January 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
		day 1	6.13.intercept form.	1
	2nd Week/	day 2	6.14. planes parallel and perpendicular to co-ordinate axes.	1
11	January 2023	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
		day 1	6.18.angle between two planes.	1
	3rd Week/	day 2	6.19. plane through the intersection of two planes	1
12	January 2023	day 3	6.20. position of a pointwitg respect to a plane.	1
12	January 2023	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/ January 2023	day 1	7. SPHERE: - 7.1. Equation of a sphere (I) center and radius form	1
10		day 2	7.2. general equation of a sphere	1
13		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
		day 1	REVISION	1
	1st Week/	day 2	REVISION	1
14	February 2023	day 3	REVISION	1
		day 4	REVISION	1
		day 5	REVISION	1
		day 1	REVISION	1
, _	2nd Week/ February 2023	day 2	REVISION	1
15		day 3	REVISION	1
		day 4 day 5	REVISION REVISION	1
	3rd Week/	day 5	I KEVISION	2
16	February 2023	day 1	REVISION	3

	LESSO	N PLAN WINTER(2021-22)(ETC(Sec-D))	
DISCIPLINE : Mathematics	SEMESTER: 1st	NAME OF THE TEACHING FACULTY: Smt. Sanghamitra Nath & Miss Sasmita Sahoo	
Subject:Engineering Mathematics-I	No. of Days/per week class allotted: 06classes	Semester From date:25.10.2021 to Date:31.01.2022	
		No. of Weeks: 15	
Week	Class Day	Theory/Practical Topics	No of periods allotted
	25-Oct-2021	1. DETERMINANT:1.1 Determinant	1
	26-Oct-2021	1.1. Determinant	1
1st	27-Oct-2021	1.2.Minors	1
	28-Oct-2021	1.3. properties of determinant	2
	30-Oct-2021	1.4 solution of simultaneous linear equations by Cramer's rule	1
	1-Nov-2021	1.4 solution of simultaneous linear equations by Cramer's rule	1
2nd	2-Nov-2021	2. Matrix:- 2.1 matrix and it's order	1
2na	3-Nov-2021	2.2 types of matrices with examples	1
	6-Nov-2021	2.2 types of matrices with examples	1
	8-Nov-2021	2.3 equality of matrices	1
	9-Nov-2021	2.4 multiplicative inverse of a matrix	1
3rd	10-Nov-2021	2.5 Solution of simultaneous equations by matrix method	1
	11-Nov-2021	important questions of matrix and determinant.	2
	13-Nov-2021	Solve Question from the book Elements of mathematics	1
	15-Nov-2021	3. Trigonometry: - 3.1. Trigonometrical ratios.	1
	16-Nov-2021	3.1. Trigonometrical ratios	1
4th	17-Nov-2021	3.2. problems on Compound angles	1
1411	18-Nov-2021	3.3.multiple angles	2
	20-Nov-2021	3.3. multiple angles	1
	22-Nov-2021	3.3. problems on multiple angles	1
	23-Nov-2021	3.4. problems on Sub-multiple angles	1
5th	24-Nov-2021	3.5. Define inverse circular functions	1
Stil	25-Nov-2021	3.5. Problems on inverse circular functions	2
	27-Nov-2021	3.6. properties of inverse circular functions	
	29-Nov-2021	Solve Question from the book Elements of mathematics	1
	30-Nov-2021	4. Co-ordinate Geometry in Two Dimension : - 4.1. Introduction of Geometry in two dimension.	1
6th	1-Dec-2021	4.2 . Distance formula and problems.	1
	2-Dec-2021	4.2 . Division formula and problems.	2
	4-Dec-2021	4.2 area of a triangle. 4.3 Define slope of a line	1
	6-Dec-2021	4.3 angle between two lines, conditions of parallelism and perpendicularity	1
7.0	7-Dec-2021	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
7th	8-Dec-2021	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
	9-Dec-2021	4.6. Equation of a line passing through the intersection of two lines	2
	11-Dec-2021	4.7. Distance of a point from a line and distance between two parallel lines	1

	13-Dec-2021	Important problems on co-ordinate Geometry	1
			1
0.1	14-Dec-2021	5. Circle : 5.1. Equation of a circle (I) center radius from and problems	1
8th	15-Dec-2021	5.2. general equation of a circle	1
	16-Dec-2021	5.3.find center and radius of a circle	2
	18-Dec-2021	5.4. end point of a diameter from	1
	20-Dec-2021	5.5 equation of a circle passing through three given points.	1
041-	21-Dec-2021	6. CO-ORDINATE GEOMETRY IN THREE DIMENSION :- 6.1 analytical Geometry in three dimension.	1
9th	22-Dec-2021	6.2.distance formula, section formula	1
	23-Dec-2021	6.3. direction cosines 6.4. relation between Direction cosines.	2
	24-Dec-2021	6.5.Direction ratios	1
	27-Dec-2021	6.6. projections.	1
	28-Dec-2021	6.7. direction ratios and direction cosines of the line joining two points	1
10th	29-Dec-2021	6.8. angle between two lines (conditions of parallelism and perpendicularity)	1
	30-Dec-2021	6.10. Equation of a plane (I) general from	2
	1-Jan-2022	6.11. equation of a plane through three non-colliear points.	1
	3-Jan-2022	6.12. passing through a point and perpendicular to a plane.	1
	4-Jan-2022	6.13.intercept form.	1
11th	5-Jan-2022	6.14. planes parallel and perpendicular to co-ordinate axes.	1
	6-Jan-2022	6.15. normal form of equation of a plane.	2
	8-Jan-2022	6.16. transformation of the general equation of a plane to normal form	1
	10-Jan-2022	6.17. planes parallel to co-ordinate axes.	1
	11-Jan-2022	6.18.angle between two planes.	1
12th	12-Jan-2022	6.19. plane through the intersection of two planes	1
	13-Jan-2022	6.20. position of a pointwitg respect to a plane.	2
	15-Jan-2022	6.21. perpendicular distance of a point from a plane	1
	17-Jan-2022	6.22.bisector of the angles between two planes. Important Problems on planes.	1
13th	18-Jan-2022	7. SPHERE: - 7.1. Equation of a sphere (I) center and radius from	1
13(1)	19-Jan-2022	7.2. general equation of a sphere	1
	20-Jan-2022	7.3. find center and radius of a sphere	2
	22-Jan-2022	7.4. end point of a diameter from	1
	24-Jan-2022	7.5. equation of sphere passing through three non-collinear points.	1
14th	25-Jan-2022	REVISION	1
14(1)	27-Jan-2022	REVISION	2
	29-Jan-2022	REVISION	1
15th	31-Jan-2022	REVISION	1