

LESSON PLAN

DISCIPLINE: MATH AND SCIENCE	SEMESTER: FIRST	NAME OF THE TEACHING FACULTIES: Dr. ASHOK KUMAR DAS MRS.PRATIVA PATRA SANKAR KUMAR PRADHAN
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SUBJECT: ENGG. MATHEMATICS-I	NO. OF. DAYS PER WEEK CLASS ALLOTTED	SEMESTER: FROM 25/10/2021 TO 31/01/2022
WEEK	CLASS DAY	THEORY
1ST	1 ST	INTRODUCTION TO DETERMINANTS
	2 ND	INTRODUCTION TO TRIGONOMETRY
	3 RD	MINORS AND CO-FACTORS
	4 TH	TRIGONOMETRICAL RATIOS OF CERTAIN ANGLES
	5 TH	EXPANSION OF DETERMINANTS
	6 TH	PRACTICE PROBLEMS ON DETERMINANTS (TUTORIAL CLASS)
2ND	1 ST	PROBLEMS BASED ON T-RATIOS
	2 ND	PROPERTIES OF DETERMINANTS
	3 RD	COMPOUND ANGLES
	4 TH	PROBLEMS USING PROPERTIES OF DETERMINANTS
	5 TH	PROBLEMS BASED ON COMPOUND ANGLES
	6 TH	PRACTICE PROBLEMS ON TRIGONOMETRY
3RD	1 ST	CRAMER'S RULE
	2 ND	TRANSFORMATION OF SUMS OR DIFFERENCE IN-TO PRODUCTS
	3 RD	PROBLEMS USING CRAMER'S RULE
	4 TH	MULTIPLE ANGLES
	5 TH	MATRIX AND ITS ORDER
	6 TH	PRACTICE PROBLEMS ON CRAMER'S RULE
4TH	1 ST	PROBLEMS BASED ON MULTIPLE ANGLES
	2 ND	TYPES OF MATRICES WITH EXAMPLES
	3 RD	SUB-MULTIPLE ANGLES

	4 TH	EQUALITY OF MATRICES
	5 TH	PROBLEMS BASED ON SUB-MULTIPLE ANGLES
	6 TH	DOUBT CLEAR ON MULTIPLE AND SUB-MULTIPLE ANGLES
5 TH	1 ST	ALGEBRA OF MATRICES
	2 ND	DEFINE INVERSE CIRCULAR FUNCTIONS
	3 RD	ADJOINT AND INVERSE OF A MATRIX
	4 TH	PROPERTIES OF INVERSE CIRCULAR FUNCTIONS
	5 TH	PROBLEMS ON ADJOINT AND INVERSE OF A MATRIX
	6 TH	PRACTICE PROBLEMS ON MATRICES
6 TH	1 ST	PROBLEMS ON USING PROPERTIES OF INVERSE TRIGONOMETRIC FUNCTIONS
	2 ND	SOLUTION OF A SYSTEM OF LINEAR EQUATIONS BY MATRIX METHOD
	3 RD	PROPERTIES OF INVERSE CIRCULAR FUNCTIONS
	4 TH	PROBLEMS BASED ON MATRIX METHOD
	5 TH	PROBLEMS ON USING PROPERTIES OF INVERSE TRIGONOMETRIC FUNCTIONS
	6 TH	CLASS NOTE CHECKING
7 TH	1 ST	INTRODUCTION OF GEOMETRY IN TWO DIMENSION
	2 ND	DISTANCE FORMULAE, DIVISION FORMULAE, AREA OF A TRIANGLE
	3 RD	PROBLEMS BASED ON DISTANCE, DIVISION AND AREA OF TRIANGLE
	4 TH	SLOPE OF A LINE AND ANGLE BETWEEN TWO LINES AND PROBLEMS
	5 TH	CONDITION OF PERPENDICULARITY AND PARALLELISM AND PROBLEMS
	6 TH	DOUBT CLEARING CLASS
8 TH	1 ST	DIFFERENT FORMS OF STRAIGHT LINES SLOPE-INTERCEPT FORM, ONE POINT FORM
	2 ND	PROBLEMS ON SLOPE AND ONE-POINT FORM
	3 RD	TWO-POINT FORM AND INTERCEPT FORM
	4 TH	PROBLEMS ON TWO-POINT AND INTERCEPT FORM
	5 TH	PERPENDICULAR FORM AND PROBLEMS
	6 TH	DOUBT CLEARING CLASS

9 TH	1 ST	EQUATION OF A LINE PASSING THROUGH A POINT AND PARALLEL TO A LINE
	2 ND	EQUATION OF ALINE PASSING THROUGH A POINT AND PERPENDICULAR TO A LINE
	3 RD	EQUATION OF A LINE PASSING THROUGH THE INTERSECTION OF TWO LINE
	4 TH	DISTANCE OF A POINT FROM A LINE
	5 TH	PROBLEMS BASED ON ABOVE
	6 TH	DOUBT CLEARING CLASS AND NOTE CHECKING
10 TH	1 ST	EQUATION OF A CIRCLE WITH CENTER AND RADIUS FORM
	2 ND	GENERAL EQUATION OF A CIRCLE
	3 RD	EQUATION OF ACIRCLE WITH END POINT OF DIAMETER FORM
	4 TH	PROBLEMS ON CIRCLE
	5 TH	PROBLEMS ON CIRCLE
	6 TH	DOUBT CLEARING CLASS
11 TH	1 ST	INTRODUCTION TO THREE DIMENSION
	2 ND	DISTANCE FORMULAE,SECTION FORMULAE
	3 RD	DIRECTION COSINE,DIRECTION RATIO OF A LINE
	4 TH	ANGLE BETWEEN TWO LINES,CONDITION OF PARALLELISM AND PERPENDICULARITY
	5 TH	EQUATION OF A PLANE IN GENERAL FORM
	6 TH	DOUBT CLEARING CLASS
12 TH	1 ST	ANGLE BETWEEN TWO PLANES
	2 ND	PERPENDICULAR DISTACE OF A POINT FROM A PLANE
	3 RD	PROBLEMS
	4 TH	EQUATION OF A PLANE PASSING THROUGH A POINT AND (i)PARALLEL TO PLANE (ii)PERPENDICULAR TO A PLANE
	5 TH	PROBLEMS
	6 TH	DOUBT CLEARING CLASS
13 TH	1 ST	CLASS NOTE CHECKING
	2 ND	EQUATION OF A SPHERE WITH CENTER RADIUS FORM
	3 RD	GENERAL EQUATION OF A SPHERE
	4 TH	PROBLEMS BASED ON SPHERE

	5 TH	EQUATION OF A SPHERE WITH 2 END POINTS OF A DIAMETER
	6 TH	DOUBT CLEARING CLASS
14 TH	1 ST	NOTE CHECKING
	2 ND	PROBLEMS ON SPHERE
	3 RD	PROBLEMS ON 3-D
	4 TH	REVISION
	5 TH	CLASS TEST
	6 TH	DOUBT CLEARING CLASS
15 TH	1 ST	REVISION ON DETERMINANTS AND MATRICES
	2 ND	REVISION ON TRIGONOMETRY
	3 RD	REVISION ON INVERSE TRIGONOMETRIC FUNCTIONS
	4 TH	REVISION ON 2-D
	5 TH	REVISION ON 3-D
	6 TH	DOUBT CLEARING CLASS