LESSON PLAN

DISCIPLINE: MATH AND SCIENCE	SEMESTER: FIRST	NAME OF THE TEACHING FACULTIES: MRS.PRATIVA PATRA

SUBJECT: ENGG. MATHEMATICS-I	NO. OF. DAYS PER WEEK CLASS ALLOTED	SEMESTER: FROM 16/08/2023 TO 11/12/2023
WEEK	**CLASS DAY**	**THEORY**
1ST	1ST	INTRODUCTION TO DETERMINANTS
	2ND	INTRODUCTION TO TRIGONOMETRY
	3RD	MINORS AND CO-FACTORS
	4TH	TRIGONOMETRICAL RATIOS OF CERTAIN ANGLES
	5TH	EXPANSION OF DETERMINANTS
	6TH	PRACTICE PROBLEMS ON DETERMINANTS (TUTORIAL CLASS)
2ND	1ST	PROBLEMS BASED ON T-RATIOS
	2ND	PROPERTIES OF DETERMINANTS
	3RD	COMPOUND ANGLES
	4TH	PROBLEMS USING PROPERTIES OF DETERMINANTS
	5TH	PROBLEMS BASED ON COMPOUND ANGLES
	6TH	PRACTICE PROBLEMS ON TRIGONOMETRY
3RD	1ST	CRAMER'S RULE
	2ND	TRANSFORMATION OF SUMS OR DIFFERENCE IN-TO PRODUCTS
	3RD	PROBLEMS USING CRAMER'S RULE
	4TH	MULTIPLE ANGLES
	5TH	MATRIX AND ITS ORDER
	6TH	PRACTICE PROBLEMS ON CRAMER'S RULE
4TH	1ST	PROBLEMS BASED ON MULTIPLE ANGLES
	2ND	TYPES OF MATRICES WITH EXAMPLES
	3RD	SUB-MULTIPLE ANGLES
	4TH	EQUALITY OF MATRICES
	5TH	PROBLEMS BASED ON SUB-MULTIPLE ANGLES

	6TH	DOUBT CLEAR ON MULTIPLE AND SUB-MULTIPLE ANGLES
5TH	1ST	ALGEBRA OF MATRICES
	2ND	DEFINE INVERSE CIRCULAR FUNCTIONS
	3RD	ADJOINT AND INVERSE OF A MATRIX
	4TH	PROPERTIES OF INVERSE CIRCULAR FUNCTIONS
	5TH	PROBLEMS ON ADJOINT AND INVERSE OF A MATRIX
	6TH	PRACTICE PROBLEMS ON MATRICES
6TH	1ST	PROBLEMS ON USING PROPERTIES OF INVERSE TRIGONOMETRIC FUNCTIONS
	2ND	SOLUTION OF A SYSTEM OF LINEAR EQUATIONS BY MATRIX METHOD
	3RD	PROPERTIES OF INVERSE CIRCULAR FUNCTIONS
	4TH	PROBLEMS BASED ON MATRIX METHOD
	5TH	PROBLEMS ON USING PROPERTIES OF INVERSE TRIGONOMETRIC FUNCTIONS
	6TH	CLASS NOTE CHECKING
7TH	1ST	INTRODUCTION OF GEOMETRY IN TWO DIMENSION
	2ND	DISTANCE FORMULAE,DIVISION FORMULAE,AREA OF A TRIANGLE
	3RD	PROBLEMS BASED ON DISTANCE,DIVISON AND AREA OF TRIANGLE
	4TH	SLOPE OF A LINE AND ANGLE BETWEEN TWO LINES AND PROBLEMS
	5TH	CONDITION OF PERPENDICULARITY AND PARALLELISM AND PROBLEMS
	6TH	DOUBT CLEARING CLASS
8TH	1ST	DIFFERENT FORMS OF STRAIGHT LINES SLOPE-INTERCEPT FORM ,ONE POINT FORM
	2ND	PROBLEMS ON SLOPE AND ONE- POINT FORM
	3RD	TWO-POINT FORM AND INTERCEPT FORM
	4TH	PROBLEMS ON TWO-POINT AND INTERCEPT FORM
	5TH	PERPENDICULAR FORM AND PROBLEMS
	6TH	DOUBT CLEARING CLASS
9TH	1ST	EQUATION OF A LINE PASSING THROUGH A POINT AND PARALLEL TO A LINE
	2ND	EQUATION OF ALINE PASSING THROUGH A POINT AND PERPENDICULAR TO A LINE
	3RD	EQUATION OF A LINE PASSING THROUGH THE

		INTERSECTION OF TWO LINE
	4TH	DISTANCE OF A POINT FROM A LINE
	5TH	PROBLEMS BASED ON ABOVE
	6TH	DOUBT CLEARING CLASS AND NOTE CHECKING
10TH	1ST	EQUATION OF A CIRCLE WITH CENTER AND RADIUS FORM
	2ND	GENERAL EQUATION OF A CIRCLE
	3RD	EQUATION OF ACIRCLE WITH END POINT OF DIAMETER FORM
	4TH	PROBLEMS ON CIRCLE
	5TH	PROBLEMS ON CIRCLE
	6TH	DOUBT CLEARING CLASS
11TH	1ST	INTRODUCTION TO THREE DIMENSION
	2ND	DISTANCE FORMULAE,SECTION FORMULAE
	3RD	DIRECTION COSINE,DIRECTION RATIO OF A LINE
	4TH	ANGLE BETWEEN TWO LINES,CONDITION OF PARALLELISM AND PERPENDICULARITY
	5TH	EQUATION OF A PLANE IN GENERAL FORM
	6TH	DOUBT CLEARING CLASS
12TH	1ST	ANGLE BETWEEN TWO PLANES
	2ND	PERPENDICULAR DISTACE OF A POINT FROM A PLANE
	3RD	PROBLEMS
	4TH	EQUATION OF A PLANE PASSING THROUGH A POINT AND (i)PARALLEL TO PLANE (ii)PERPENDICULAR TO A PLANE
	5TH	PROBLEMS
	6TH	DOUBT CLEARING CLASS
13TH	1ST	CLASS NOTE CHECKING
	2ND	EQUATION OF A SPHERE WITH CENTER RADIUS FORM
	3RD	GENERAL EQUATION OF A SPHERE
	4TH	PROBLEMS BASED ON SPHERE
	5TH	EQUATION OF A SPHERE WITH 2 END POINTS OF A DIAMETER
	6TH	DOUBT CLEARING CLASS
14TH	1ST	NOTE CHECKING
	2ND	PROBLEMS ON SPHERE
	3RD	PROBLEMS ON 3-D

	4TH	REVISION
	5TH	CLASS TEST
	6TH	DOUBT CLEARING CLASS
15TH	1ST	REVISION ON DETERMINANTS AND MATRICES
	2ND	REVISION ON TRIGONOMETRY
	3RD	REVISION ON INVERSE TRIGONOMETRIC FUNCTIONS
	4TH	REVISION ON 2-D
	5TH	REVISION ON 3-D
	6TH	DOUBT CLEARING CLASS

Sd/-

Concerned Faculties: HOD
Smt. PRATIVA PATRA   Govt. Polytechnic Kandhamal

Sd/-

Principal
Govt. Polytechnic Kandhamal
Phulbani