LESSON PLAN

Discipline: **Civil & Mechanical**	Semester: **1st semester**	Name of the Teaching Faculty: **Dharashree Puthal**
Subject: **Engineering Mathematics-I** Sub code: **Th-3**	No of days /week class allotted:**03/week**	Semester from Date:**25/10/2022 to 31/01/2023** No of weeks:**13**

Month	Week	No of periods available	Class Day	Theory topics to be covered
October	1st	02P	28.10.2022	Introduction to Matrices. Types of Matrices. Algebra of Matrices
November	2nd	01P	31.10.2022	Problems related to Algebra of Matrices.
		02P	04.11.2022	Determinant. Minor and Cofactor
	3rd	01P	07.11.2022	Properties of Determinant
		02P	11.11.2022	Problems related to properties of Determinant.
	4th	01P	14.11.2022	Adjoint of a Matrix.
		02P	18.11.2022	Inverse of a Matrix and problems.
	5th	01P	21.11.2022	Cramer's rule
		02P	25.11.2022	**Monthly Test-01 and Discussion**
December	6th	01P	28.11.2022	Solution of simultaneous equations by Matrix inversion method.
		02P	02.12.2022	Introduction to Trigonometry. Trigonometric Ratios.
	7th	01P	05.12.2022	Trigonometric Functions.
		02P	09.12.2022	Compound Angles, Multiple Angles & Sub multiple Angles
	8th	01P	12.12.2022	Problems related to Compound Angles, Multiple Angles & Sub multiple Angles.
		02P	16.12.2022	Periodicity of trigonometric functions. Sum and Product of Trigonometric Functions

January	9th	01P	19.12.2022	Inverse Trigonometry. Properties
		02P	23.12.2022	Problems related to Inverse Trigonometry
	10th	01P	02.01.2023	**Monthly Test-03 and Discussion**
		02P	06.01.2023	Introduction to 3D Geometry. Section Formulae. Distance Formula
	11th	01P	09.01.2023	Direction Ratios and Cosines.
		02P	13.01.2023	Angle Between two Lines. Condition of Parallelism and Perpendicularity.
	12th	01P	16.01.2023	Equation of a Plane. General form.
		02P	20.01.2023	Angle Between two Planes. Perpendicular distance of a point from a plane
	13th	02P	27.01.2023	Equation of a Plane passing through a point and (i) Parallel to the plane (ii) Perpendicular to the plane.
		01P	30.01.2023	**Revision &Previous year question & Answer discussion.**
				VERY SIMILAR TEST/MOCK TEST

Dharashree Puthal
PTGF IN MATH
O.S.M.E, KEONJHAR

10/11/2022
H OD
MATH & SC.
O.S.M.E, KEONJHAR

PRINCIPAL
O.S.M.E,
KEONJHAR

LESSON PLAN

Discipline: **Metallurgy**			Semester: **1st semester**	Name of the Teaching Faculty: **Dharashree Puthal**
Subject: **Engineering Mathematics-I** Sub code:- **Th-3**			No of days /week class allotted:**03/week**	Semester from Date:**25/10/2022** to **31/01/2023** No of weeks:**13**
Month	Week	No of periods Available	Class Day	Theory topics to be covered
October	1st	01P	25.10.2022	Introduction to Matrices. Types of Matrices.
		02P	26.10.2022	Algebra of Matrices. Problems related to Algebra of Matrices.
November	2nd	01P	01.11.2022	Determinant.
		02P	02.11.2022	Minor and Cofactor. Properties of Determinant
	3rd	02P	09.11.2022	Problems related to properties of Determinant.
	4th	01P	15.11.2022	Adjoint of a Matrix.
		02P	16.11.2022	Inverse of a Matrix and problems.
	5th	01P	22.11.2022	Cramer's rule
		02P	23.11.2022	Solution of simultaneous equations by Matrix inversion method.
December	6th	01P	29.11.2022	**Monthly Test-01 and Discussion**
		02P	30.11.2022	Introduction to Trigonometry. Trigonometric Ratios.
	7th	01P	06.12.2022	Trigonometric Functions.
		02P	07.12.2022	Compound Angles. Multiple Angles. Sub multiple Angles
	8th	01P	13.12.2022	Problems related to Compound Angles. Multiple Angles. Sub multiple Angles.
		02P	14.12.2022	Periodicity of trigonometric functions. Sum and Product of Trigonometric Functions

January	9th	01P	20.12.2022	Inverse Trigonometry Properties
		02P	21.12.2022	Problems related to Inverse Trigonometry
	10th	01p	03.01.2023	**Monthly Test-03 and Discussion**
		02p	04.01.2023	Introduction to 3D Geometry. Section Formulae, Distance Formula
	11th	01p	10.01.2023	Direction Ratios and Cosines.
		02p	11.01.2023	Angle Between two Lines. Condition of Parallelism and Perpendicularity.
	12th	01p	17.01.2023	Equation of a Plane. General form.
		02p	18.01.2023	Angle Between two Planes. Perpendicular distance of a point from a plane
	13th	02p	24.01.2023	Equation of a Plane passing through a point and (i) Parallel to the plane (ii) Perpendicular to the plane.
		01p	25.01.2023	Problems related to plane.
		01p	31.01.2023	**Revision &Previous year question & Answer discussion.**
				VERY SIMILAR TEST/MOCK TEST

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