

Lesson plan for 2023 winter

Subject :-Mathematics (Code) TH-3

Name of faculty-kajal priya pani

Semester :1st

Class allotted:- 5p/week

Branch :-

Metallurgy

Discipline	Date/Period	From date:- 16/08/23 To date:11/12/23	Teaching Aid
Subject:		Theory –Topics /lesson plan	
Weeks			

Week No-1	16/08/23 to 19/08/23	<u>1.MATRICES AND DETERMINANT</u> (a) Types of matrices (b) Algebra of matrices (c) Determinant (d) Properties of determinant	White board & marker
Week No-2	21/08/23 to 26/08/23	(a) Inverse of a matrix (second order) (b) Inverse of a matrix (Third order) (c) problems of inverse matrix(second order) (d) problems of inverse matrix(third order) (e) problems of matrix both in 2 nd and 3 rd order	White board & marker
Week No-3	28/08/23 to 02/09/23	(a)Cramers rule(two variables). (b)problem on cramers rule (c) problem on cramers rule (d)solutions of simultaneous equations by matrix method. (e) problems on matrix method	White board & marker
Week No-4	04/09/23 to 09/09/23	(a) problems of matrix. (b) problems of matrix. (c) problems of matrix. (d) problems of matrix.	White board & marker
Week No-5	11/09/23 to 16/09/23	<u>(2) TRIGONOMETRY</u> (a) Fundamentals of trigonometry (b) Compound angles (c),problems on compound angle (d) multiples angle (e) problems on trigonometry	White board & marker
Week No-6	18/09/23 to 23/09/23	(a) sub-multiple angles. (b) Define inverse circular functions. (c) its properties (no derivation). (d) problems on trigonometry (e) problems on trigonometry	White board & marker

Week No-7	25/09/23 to 30/10/23	(a) problems on trigonometry (b) problems on trigonometry (c) problems on trigonometry (d) problems on trigonometry (e) problems on trigonometry	White board & marker
Week No-8	03/10/23 to 07/10/23	CO-ORDINATE GEOMETRY IN TWO DIMENSIONS(Straight line) (a) Introduction of geometry in two dimension (b) Distance formulae, division formulae, (c)problems on distance and division formula. (d)Area of a triangle (only formulae no derivation) . (e)Define slope of a line, angle between two lines (only F),	White board & marker
Week No-9	09/10/23 to 14/10/23	(a) condition of perpendicularity (b) condition of parallelism. (c) Different forms of straight lines (only formulae) (d) One point form, two point form (e)slope form	White board & marker
Week No-10	16/10/23 to 20/10/23	(a) ,intercept form , Perpendicular form (b) Equation of a line passing through a point and parallel to a line (ii) Perpendicular to a line . c) Equation of a line passing through the intersection of two lines 4) CIRCLE (a) basic idea about circle (b) center of a circle and its problems.	White board & marker
Week No-11	30/10/23 to 04/11/23	(a) radius of a circle and its problem (b) Equation of a circle (c) center radius form,problems (d) general equation of a circle,problems, (e) end point of diameter form,problems	White board & marker
Week No-12	6/11/23 to 11/11/23	5) CO-ORDINATE GEOMETRY IN THREE DIMENSIONS a) Distance formula., (b)section formulae. (c)direction ratio.	White board & marker & smart board
Week No-13	13/11/23 to 18/11/23	<u>(a)</u> direction cosine, (b) angle between two lines (condition of parallelism (c) angle between two lines (condition of perpendicularity) (d) Equation of a plane (e) General form	White board & marker
Week No-14	20/11/23 to 25/11/23	6) SPHERE (a) Equation of a sphere (b) center radius form (c) general form (d) two end points of a diameter form	White board & marker & smart board

Week No-15	28/11/23 to 02/12/23	Problems of sphere Problems of sphere Problems of sphere Problems of sphere	White board & marker & smart board
Week No-16	04/12/23 to 09/12/23	Problems of sphere Problems of sphere Problems of sphere Problems of sphere	White board & marker & smart board
Week No-17	11/12/23	Revision	White board & marker & smart board

K. Panj
Signature of HOD

Kajal Priya Panj
Signature of faculty