

Subject :-Mathematics

(Code) TH-3

Name of faculty-kajal priya pani

Semester :2nd

Class allotted:- 5p/week

Branch :-CIVIL and Electrical

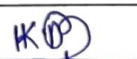
Discipline	Date/Period	From date:-29/01/24 To date:14/05/24	Teaching Aid
Subject:		Theory/ Practical –Topics/Lesson	
Weeks			

Week No-1	29/01/24 to 03/02/24	1. VECTOR ALGEBRA > Introduction > Types of vectors (null vector, parallel vector , collinear vectors) (in component form) >Representation of vector. >Magnitude and direction of vectors . >Addition and subtraction of vectors .	White board & marker
Week No-2	05/02/24 to 10/02/24	>Position vector. >problems. >Scalar product of two vectors . > Geometrical meaning of dot product. >problems.	White board & marker
Week No-3	12/02/24 to 17/02/24	> Angle between two vectors > Scalar and vector projection of two vectors > Vector product and its geometrical meaning > problems	White board & marker
Week No-4	19/02/24 to 24/02/24	LIMITS AND CONTINUITY > Definition of function, based on set theory b > Types of functions > Constant function > Identity function > Absolute value function	White board & marker
Week No-5	26/02/24 to 02/03/24	>The Greatest integer function >Trigonometric function >Exponential function >Logarithmic function >Introduction of limit.	White board & marker
Week No-6	04/03/24 to 09/03/24	>Existence of limit e). >Methods of evaluation of limi tand definition of continuity of a function DERIVATIVES >Derivative of a function at a point >Algebra of derivative	White board & marker

		>Derivative of standard function.	
Week No-7	11/03/24 to 16/03/24	> Derivative of composite function (Chain Rule) > Problems Methods of differentiation of >Parametric function >problems >implicit function >Problems	White board & marker
Week No-8	18/03/24 to 23/03/24	> Logarithmic function >problems >Applications of Derivative >problems >Successive Differentiation (up to second order and problems	White board & marker
Week No-9	27/03/24 to 30/03/24	>Partial Differentiation (function of two variables up to second order) Problems Problems Problems problems	White board & marker
Week No-10	02/04/24 to 06/04/24	INTEGRATION >Definition of integration as inverse of differentiation > Integrals of standard functions > Methods of integration > Integration by substitution >Integration by parts	White board & marker
Week No-11	08/04/24 to 13/04/24	>Problems of integrations by parts >Integration of the different forms >Problems of integrations >e) Definite integral, properties of definite integrals >properties 1 and 2	White board & marker
Week No-12	15/04/24 to 20/04/24	>properties 3 >properties 4	White board & marker & smart board

		>Even function and Odd function and problems	
Week No-13	22/04/24 to 27/04/24	Application of integration >Area enclosed by a curve and X – axis >Area of a circle with centre at origin >problems DIFFERENTIAL EQUATION >Introduction to differentials equations >Order of a differentials equations	White board & marker
Week No-14	29/04/24 to 04/05/24	>Degree of a differential equations >Problems of differential equations >Solution of first order differentials equations >Problems >Solution of first degree differentials equations	White board & marker & smart board
Week No-15	06/05/24 to 11/05/24	>problems of differentials equations by the >methods of separation of variables >Linear equations of 1 st order and first degree >problems >problems	White board & marker & smart board
Week No-16	13/05/24 to 14/05/24	revision	White board & marker & smart board


Signature of HOD


Signature of faculty