

Discipline:- CSE	Semester: 2ND Sem	Name of the Faculty: Monaj Kumar Jena & Bighneswar Mahanta	DATE			
Subject: Engineering Mathematics- II	Class per Week Allotted:5	No. of Week:				
WEEK	Class	THEORY TOPICS TO BE COVERED		SIGN	HOD'S REMARK	SIGN OF PRINCIPAL
1	1	Definition of function , based on set theory				
	2	problem				
	3	Introduction of limit & Existence of limit				
	4	problem				
	5	problem				
2	1	Methods of evaluation of limit				
	2	problem				
	3	Formula of standard form				
	4	problem				
	5	problem				
3	1	Definition of continuity of a function at a				
	2	problem				
	3	Derivative of a function at a point				
	4	Algebra of derivative				
	5	problem				
4	1	problem				
	2	Derivative of standard functions				
	3	problem				
	4	problem				
	5	problem				
5	1	problem				
	2	Derivative of composite function(Chain rule)				
	3	problem				
	4	Parametric function				

	5	Implicit function				
6	1	Logarithmic function				
	2	problem				
	3	A function with respect to another function				
	4	problem				
	5	Successive Differentiation(2nd order)				
7	1	Partial Differentiation(function of two				
	2	problem				
	3	problem				
	4	Definition of int. as inverse of diff.				
	5	Integrals of standard functions				
8	1	problem				
	2	problem				
	3	problem				
	4	Integration by substitution				
	5	Integration by parts				
9	1	problem				
	2	problem				
	3	problem				
	4	Ten imp integral problems				
	5	problem				
10	1	Definite int.,properties of definite integrals				
	2	problem				
	3	problem				
	4	Order and degree of a differential equation				
	5	problem				
11	1	problem				
	2	Solution of differential equation				
	3	problem				
	4	problem				
	5	problem				

12	1	problem				
	2	problem				
	3	problem				
	4	Vector Introduction				
	5	Representation of vector				
13	1	Types of vectors				
	2	Magnitude & direction of vectors				
	3	Addition & subtraction of vectors				
	4	problem				
	5	problem				
14	1	Scalar product of two vectors				
	2	problem				
	3	Geometrical meaning of dot product				
	4	problem				
	5	problem				
15	1	Scalar and vector projection of two vectors				
	2	Vector product & geometrical meaning				
	3	problem				
	4	problem				
	5	problem				