Discipline: MATHEMATICS & SCIENCE		Semester: 2nd Semester	Name of the Teaching Faculty: DEEPAK KUMAR SAHOO & DHARASHREE PUTHAL		
Subject:ENGINEERING MATHEMATICS-II Sub code: Th-03		No of days /week class allotted:06	Semester from Date:14.03.2022 to 18.06.2022		
Month	week	Class Day	Theory topics	%covered	Remark
MARCH	1st	1st	Definition of function by set theory		
		2nd	Types of functions		
		3rd	Types of functions		
		4th	Introduction to limit		
		5th	Problems		
		6th	Existence of limit		
	2nd	1st	Evaluation of Limit (Direct Substitution, Factorization, Rationalization Method)		
		2nd	Evaluation of limits by limit formulas		
		3rd	Evaluation of limits by limit formulas		
		4th	Evaluation of limits by limit formulas		
		5th	Evaluation of limits by limit formulas		
		6th	Continuity of a function and Problems		
	3rd	1st	Introduction to Derivatives		
		2nd	Derivative of a function at a point		
		3rd	Algebra of Derivatives		
		4th	Derivative of standard functions		
		5th	Problems		
		6th	Derivatives using Chain Rule		
APRIL	1st	1st	Problems		
		2nd	Derivative of a function by substitutions		
		3rd	Problems		
		4th	Derivative of Implicit functions		
		5th	Problems		
		6th	Derivative of logarithm functions		
	2nd	1st	Problems		
		2nd	Derivative of Parametric function		
		3rd	Problems		
		4th	Derivative of a function w.r.t. another function		
		5th	Problems		
		6th	Mixed Problems		
	3rd	1st	Successive Differentiation		
		2nd	Partial Differentiation		
		3rd	Problems		
		4th	Introduction to Integration		
		5th	Integral of standard functions		
		6th	Integral by substitutions		
	4th	1st	Problems		
		2nd	Integration by parts		
		3rd	Problems		
		4th	Integration of Standard forms		
		5th	Problems		
		6th	Mixed Problems		

MAY	1st	1st	Definite Integrals		
		2nd	Properties		
		3rd	Problems		
		4th	Area Under the Curve		
		5th	Area of a circle with centre at origin		
		6th	Problems		
	2nd	1st	Introduction to Differential Equations		
		2nd	Order and Degree of a D.E.		
		3rd	Formation of a Differential Equation		
		4th	Solution of a Differential Equation		
		5th	Problems		
		6th	Method of separation of variables		
	3rd	1st	Problems		
		2nd	Linear Differential Equations		
		3rd	Problems		
		4th	Differential Equation reducible to Linear Form		
		5th	Problems		
		6th	Mixed Problems		
	4th	1st	Introduction to vector		
		2nd	Types of vector		
		3rd	Representation of a vector		
		4th	Magnitude and Direction of a vector		
		5th	Addition and Subtraction of a vector		
		6th	Position Vector		
JUNE	1st	1st	Scalar Product or Dot Product		
		2nd	Geometrical Meaning		
		3rd	Angle Between two vectors		
		4th	Problems		
		5th	Scalar projection		
		6th	Vector projection		
	2nd	1st	Vector Product		
		2nd	Geometrical Representation		
		3rd	Angle Between two vectors by cross product		
		4th	Area of Triangle and Parallelogram		
		5th	Problems		
		6th	Problems		
	3rd	1st	Revision of Limit and Continuity		
		2nd	Revision of Derrivatives		
		3rd	Revision of Integration(Indefinite)		
		4th	Revision of integration(Definite)		
		5th	Revision of Differential Equations		
		6th	Revision of Vector Algebra		

Deepak
12.03.21
Lect in Math

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