

Lesson Plan for Engineering Mathematics-II

Distilia	Conservation and some	Name of the Teaching Feedback
Discipline	Semester:-2" sem	Name of the reaching Faculty:-
	All branches	Anil Biswal
Subject:-	No of days/per week	Semester from 26/10/2022 to 20/02/2023
Mathematics	class allotted	No of weeks:- 15
Maak	Class Day	Theory Topics
vveek	Class Day	
1st	1 st	INTRODUCTION TO VECTOR AND TYPES OF VECTOR
	2 nd	REPRESENTATION OF A VECTOR, MAGNITUDE AND
	_	DIRECTION OF A VECTOR, OPERATIONS ON VECTOR AND
		POSITION VECTOR.
	2 rd	RESOUTION OF VECTOR IN 2D AND 3D. OPERATIONS ON
	5	VECTORS IN COMPONENT FORM.
	∕ ∧ th	UNIT VECTOR IN THE DIRECTION OF VECTOR. PROBLEMS
	4	ON DISCUSSED TOPICS.
	⊑th	ANGLE BETWEEN THE VECTORS. DOT PRODUCT OR
	J	SCALAR PRODUCT OF TWO VECTORS. GEOMETRICAL
		MEANING OF DOT PRODUCT PROPERTIES OF DOT
		PRODUCT ANGLE BETWEEN TWO NON ZERO VECTORS
and	1 st	REVISION OF DISCUSSED TOPIC PRACTICE OF PROBLEMS
Z	<u> </u>	
	2 nd	PROBLEMS ON DOT PRODUCT.
	3 rd	VECTOR PRODUCT OR CROSS PRODUCT, GEOMETRICAL
	3	MEANING OF CROSS PRODUCT. APPLICATION OF CROSS
		PRODUCT.
	4 th	PROBLEMS ON CROSS PRODUCT.
	۲th	CONDITION OF COPLANARITY AND MISCELLANEOUS
	5	PROBLEMS ON VECTOR.
3rd	1 st	PROBLEMS ON VECTOR AND DOUBT CLEARING.
	2 nd	DOUBT CLEARING AND ASSIGNMENT CHECKING.
	3 rd	INTRODUCTION TO RELATION AND FUNCTION. TYPE OF
	5	FUNCTION.
	∕₁th	CLASSIFICATION OF FUNCTION AND INTRODUCTION TO
	4	

5th ALGEBRA OF LIMIT AND FORMULAS ON LIMIT. EVALUATION OF ALGEBRAIC LIMITS USING SUBSTITUION, FACTORISATION, RATIONALISATION METHOD. 4th 1st EVALUATION OF INFINITE LIMITS. 2nd EVALUATION OF LIMITS USING FORMULAS. 3rd PRACTICING PROBLEMS AND ASSSIGNMENT CHECKING 4th EVALUATION OF LIMITS USING FORMULAS. 3rd PRACTICING PROBLEMS AND ASSSIGNMENT CHECKING 5th E VALUATION OF LIMITS USING FORMULAS AND SUBSTITUTION METHOD. 5th E VALUATION OF LIMITS BY LHL AND RHL METHOD. 5th 1st DEFINE CONTINUITY OF A FUNCTION AT A POINT. 75th 1st DEFINE CONTINUITY OF A FUNCTION AT A POINT. 760 7nd PROBLEM ON TESTING ROBLEM ON TESTING CONTINITY OF A FUNCTION AT A POINT 3rd PROBLEM OF TESTING PROBLEM ON TESTING 0 for the function of a function at a POINT AND ALGEBRA OF DERIVATIVE OF A FUNCTION AT A POINT AND ALGEBRA OF DERIVATIVE OF A FUNCTION AT A POINT AND ALGEBRA OF DERIVATIVE OF SOME STANDARD FUNCTIONS . CHAIN RULE. 2nd 1st DERIVATIVE OF SOME STANDARD FUNCTIONS . CHAIN RULE. 2nd DISCUSSION PROBLEM ON CHAIN RULE. 3rd DISCUSSION PROBLEMS ON CHAIN RULE. 3rd DOUBT CLEARING AND ASSIGNMENT CHECKING <th></th> <th></th> <th>LIMIT. DEFINATION OF LIMIT AND EXISTENCY OF LIMITS.</th>			LIMIT. DEFINATION OF LIMIT AND EXISTENCY OF LIMITS.
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		۸th	PROBLEM ON SUCCESSIVE DIFFERENTITATION

	5 th	INTRODUCTION TO PARTIAL DERIVATIVES OF
		FUNCTIONS OF TWO VARIABLE UPTO 2 ND ORDER.
9 th	1 st	DOUBT CLEARING AND ASSIGNMENT CHECKING
	2 nd	EULER'S FORMULA AND PROBLEM ON IT
	3 rd	PRACTICING PROBLEMS ON PARTIAL DIFFERENTIATION
	4 th	INTEGRATION OF FUNCTION AS REVERSE PROCESS OF
		DIFFERENTIATION. INTEGRATION FORMULAS OF SOME STANDARD FUNCTIONS.
	5 th	INTEGRATION OF FUNCTIONS USING DIRECT FORMULAS.
	-	SUBSTITUION METHOD.
10 th	1 st	PROBLEMS ON SUBSTITUTION METHOD
	2 nd	DOUBT CLEARING AND TEST ON INTERGRATION
	3 rd	PROBLEM ON INTEGRATING TRIGONOMETRIC FUNCTIONS.
	4 th	INTEGRATION OF FUNCTIONS $\int \frac{dx}{x^2+a^2}$, $\int \frac{dx}{\sqrt{x^2-a^2}}$ USING
		SUBSTITUTION METHOD
	5 th	PRACTICING PROBLEMS ON INTEGRATION
11 th	1 st	INTEGRATION BY PARTS RULE EXPLANATION WITH EXAMPLES
	2 nd	INTEGRATION OF FUNCTIONS USING BY PARTS
	3 rd	REVISION OF INTEGRATION AND DOUBT CLEARING
	4 th	PROBLEMS ON BY PARTS AND EVALUATION OF
		$\sqrt{a^2 - x^2}$, $\sqrt{a^2 + x^2}$ USING BY PARTS
	5 th	DEFINITE INTEGRAL. PROBLEMS ON DEFINITE INTEGRAL
12 th	1 st	FUNDAMENTAL THEOREM OF CALCULUS. PROPERTIED
	and	OF DEFINITE INTEGRAL
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	3 ^{ra}	PROBLEMS ON DEFINITE INTEGRAL USING PROPERTIES
	4 th	PRACTICING PROBLEMS ON DEFINITE INTEGRAL AND DOUBT CLEARING
	5 th	PROBLEMS ON DEFINITE INTEGRAL
13 th	1 st	DETERMINATION OF AREA UNDER A CURVE AND X AXIS USING DEFINITE INTEGRAL
	2 nd	AREA OF A CIRCLE WITH CENTRE AT ORIGIN USING DEFINITE INTEGRAL
	3 rd	REVISION OF INTEGRATION CHAPTER WITH PROBLEM DISCUSSION
	4 th	DIFFERENTIAL EQUATION , ORDER AND DEGREE OF A DIFFERENTIAL EQUATION.LINEAR DIFF. EQUATION.
	5 th	MEANING OF SOLUTION OF DIFFERENTIAL EQUATION .

	FINDING SOLUTION OF DIFF. EQUATION OF 1 ST ORDER AND 1 ST DEGREE USING VARIABLE SEPARABLE METHOD.
1 st	PROBLEM ON VARIABLE SEPARABLE METHOD.
2 nd	SOLUTION OF LINEAR DIFF. EQUATION
3 rd	PROBLEM SOLVING ON LINEAR DIFF EQUATION
4 th	PROBLEM SOLVING ON LINEAR DIFF EQUATION
5 th	PROBLEM ON VARIABLE SEPARABLE METHOD AND PROBLEM SOLVING ON LINEAR DIFE FOUATION
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