

LESSON PLAN

DISIPLINE: ELECTRICAL & ELECTRONICS	SEMESTER: THIRD	NAME OF THE TEACHING FACULTY: Shishir Kumar Naik
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SUBJECT: ENG. MATH-III	NO OF DAYS PER WK CLASS ALLOTTED	SEMESTER FROM 01/08/2023 to 30/11/2023
WEEK	CLASS DAY	THEORY
1 ST .	1 ST	REAL AND IMAGINARY NUMBERS
	2 ND	COMPLEX NOS, CONJUGATE COMPLEX NO, MODULUS AND AMPLITUDE OF COMPLEX NO
	3 RD	GEOMETRICAL REPRESENTATION OF COMPLEX NO
	4 TH	PROPERTIES OF COMPLEX NO
2 ND .	1 ST	DETERMINATION OF CUBE ROOTS OF UNITY
	2 ND	DE MOIVERS THEOREM AND PROBLEM SOLVING
	3 RD	RANK OF MATRIX
	4 TH	ELEMENTARY ROW TRANSFORMATION AND DETERMINATION OF RANK
3 RD .	1 ST	CONSISTENCY OF SYSTEM OF EQUATIONS
	2 ND	SOLVING EQUATIONS IN 3 UNKNOWN TESTING CONSISTENCY
	3 RD	HOMOGENEOUS AND NON HOMOGENEOUS LINEAR DIFFERENTIAL EQUATIONS WITH CONSTANT COEFFICIENT
	4 TH	GENERAL SOLUTIONS IN TERMS OF CF AND PI
4 TH .	1 ST	RULES FOR FINDING CF AND PI
	2 ND	CONTINUE
	3 RD	DEFINE PDE
	4 TH	FORMATION OF PDE BY ELIMINATION OF COSTANTS AND FUNCTIONS
5 TH .	1 ST	PROBLEM SOLVING
	2 ND	SOLVE $Pp+Qq=R$
	3 RD	SOLVING PROBLEMS
	4 TH	CONTINUE
6 TH .	1 ST	DEFINE GAMMA FUNCTION RECURRENCE FORMULA
	2 ND	PROBLEM SOLVING
	3 RD	DEFINE LAPLACE TRANSFORM
	4 TH	EXISTENCE CONDITIONS OF LT

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		LT OF STANDARD FUNCTIONS
7 TH .	1 ST	CONTINUE
	2 ND	LINEAR ,SHIFTING PROPERTIES
	3 RD	SOLVE PROBLEMS
	4 TH	CONTINUE
8 TH .	1 ST	INVERSE LT
	2 ND	CONTINUE
	3 RD	INVERSE LT USING PF METHOD
	4 TH	PROBLRM SOLVING
9 TH .	1 ST	PROBLEM SOLVING
	2 ND	FOURIER SERIES
	3 RD	DEFINE PERIODIC FUNCTION
	4 TH	DIRICHLET CONDITONS
10 TH .	1 ST	EXPRESS PERIODIC FUNCTION IN FOURIER SERIES
	2 ND	STATE EULERS FORMULAE
	3 RD	DEFINE ODD AND EVEN FUNCTION AND FIND FS IN THE INTERVAL 0 TO 2PI AND - PI TO +PI
	4 TH	CONTINUE
11 TH .	1 ST	CONTINUE
	2 ND	OBTAIN FS OF CONTINUOUS FUNCTIONS AND FUNCTIONS HAVING POINTS OF DISCONTINUITIES
	3 RD	PROBLEM SOLVING
	4 TH	PROBLEM SOLVING
12 TH .	1 ST	LIMITATIONS OF ANALYTICAL METHODS IN SOLVING ALGEBRAIC EQUATIONS
	2 ND	BISECTION METHOD FOR FINDING ROOTS OF ALGEBRAIC EQUATIONS
	3 RD	NEWTON RAPHSON METHOD
	4 TH	PROBLEM SOLVING
13 TH .	1 ST	EXPLAIN FINITE DIFFERENCES FORM TABLE OF FORWARD AND BACKWARD DIFFERENCE
	2 ND	CONTINUE
	3 RD	DEFINE SHIFT OPERATOR AND ITS RELATION WITH FORWARD OPERATORS
	4 TH	NEWTONS FORWARD AND BACKWARD INTERPOLATION FORMULA FOR EQUAL INTERVALS
14 TH .	1 ST	PROBLEM SOLVING
	2 ND	EXPLAIN NUMERICAL INTEGRATION

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	3 RD	STATE NEWTON COTES FORMULA
	4 TH	TRAPEZOIDAL RULE
15 TH .	1 ST	PROBLEM SOLVING
	2 ND	SIMPSONS ONE THIRD RULE
	3 RD	SOLVING PROBLEMS
	4 TH	SOLVING PROBLEMS