

Lesson Plan

Name of the Faculty: Daram Narasimha Rao

Subject: Basics of Engineering Mathematics

Branch: Bridge course. Year: II Semester: I Sem, AY: 2024-25

Sno:	Lecture No	Topic to be Covered
1	1	Introduction of Matrices, Rank of Matrix, Normal form and Echelon form, Inverse of Matrix by Row operation
2	1	Solution of Linear equation
3	2	Eigen values and Eigen vectors, Properties and problems
5	3	Caley Hamilton Theorem, Diagonalization of matrix
6	4	Introduction to Differentiation, derivation of formulae
7	4	Differentiation problem solving
8	5	Introduction to Integration
9	6	Introduction to Definite integrals
10	7	Solution of 1 st order and 1 st degree differential equations, exact differential equations
11	7	Non exact, linear and Bernoulli's equations
12	8	Application 1st order and 1st degree differential equation (Newton's law of Cooling and Natural law of Growth and Decay)
13	9	Introduction to Probability, addition theorem, conditional probability
14	9	Bayes Theorem and problems
15	10	Random Variables, Mean and Variance

Faculty Signature:

HOD Signature:

Date: