

LESSON PLAN

SESSION -2025-26

SUBJECT: Applied Mathematics-II

SEMESTER: 2nd

BRANCH: - CSE/Mechanical/ET &T

UNIT NUMBER	NAME OF THE TOPIC	NO OF CLASS REQUIRED	REMARK
Unit-1.0 Integral Calculus	1.1 Simple Integration: Rules of integration and integration of standard functions.	02	
	1.2 Methods of Integration:		
	1.21 Integration by substitution.	02	
	1.22 Integration by parts	02	
	1.23 Integration by partial fractions, Assignment given	03	
	Doubt Class, Quiz conduction	02	
	Unit Test	1	
Unit-2.0 Applications of Integral Calculus	2.1 Definite Integration		
	2.11 Simple examples	02	
	2.12 Properties of definite integral (without proof) and simple examples.	02	
	2.2 Applications of integration		
	2.21 Area under the curve.	02	
	2.22 Area between two curves, Assignment given	03	
	Doubt Class, Quiz conduction	02	
	Unit Test	1	
Unit-3.0 Differential equations of first order and first degree	3.1 Concept of differential equation		
	3.2 Order, degree and formation of differential equation.	02	
	3.3 Solution of differential equation	02	
	3.31 Variable separable form.		
	3.32 Homogeneous Differential Equations	02	
	3.33 Linear differential equation, Assignment given	03	
	Doubt Class, Quiz conduction	02	
	Unit Test	1	
Unit-4 Numerical Solutions of Equations	Introduction of algebraic and transcendental equations	02	
	4.1 Bisection method	02	
	4.2 Regula Falsi method	02	
	4.3 Newton Raphson method, Assignment given	03	
	Doubt Class, Quiz conduction	02	
	Unit Test	1	
UNIT 5.0 Numerical Integration	Introduction to Numerical integration	02	
	5.1 Trapezoidal rule	02	
	5.2 Simpson's one third rule	03	
	5.3 Simpson's three eighth rule, Assignment given	03	
	Doubt Class, Quiz conduction	1	
	Unit Test	1	
Total Class Required		60	

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