Government Girls Polytechnic Bilaspur

LESSON PLAN

Session Start Date as per CSVTU: 24-03-2025
Course Name: Applied Mathematics II **Course Code:** 2000252(014) ; Sem: 2nd.
Nam of Subject Teacher : **Mrs manorama Sahu**
Lecture plus Tutorial/Week: 3+1
Session: JAN to JUNE 2025
Discipline: CSE, ET and IT

LESSON PLAN		
Course Outcome	Topic/Subtopic to be covered under this Unit	No. of Periods Planned
CO-1 Solve the given Problems of integration using suitable methods.	1.Simple Integration	2
	2. Rules of Integration	3
	3. Integration of standard Function	4
CO-2 Use the Concept of integration to find area of given curves.	1..Definite Integration	2
	2.Simple examples	2
	3.Properties of Definite Integrals and Simple Example.	3
	4.Application of Integration	2
	5.Area under the Curve	2
	6.Area between two curves	2
CO-3 Model the given engineering problems using the concept of differential equation.	1.Concept of differential equation	2
	2. Order, degree and formation of differential equation	3
	3. Solution of differential equation	2
	4.Variable Separable form	2
	5. Homogeneous Diffrential Equation	2
	6. Linear Diffrential equation.	2
CO-4 Utilize the concept of Numerical methods to solve	1.Introduction of Algebraic and transcendental equations	2

given equation.	2. Bisectional Method	2
	3. Regula Falsi Method	2
	4 Newton Raphson Method	2
\ CO-5 Measure the area using the concept of numerical integration for civil engineering	1.Introduction to Numerical Integration	2
	2. Trapezoidal Rule	2
	3. Simpson;s One Third Rule	2
	4.Simpsons's three eighth rule	2

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