

Government Girls Polytechnic Bilaspur

LESSON PLAN

Session Start Date as per CSVTU: 23.02.2026

Course Name: Applied Mathematics

Course Code: 2000B04AT014 ; Sem.: 2nd

Nam of Subject Teacher : Mrs manorama Sahu

Lecture plus Tutorial/Week: 2+1


Session: JAN to JUNE 2026

Discipline: CSE 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	2
	3. Integration of standard Function	2
	4. Methods of integration, Integration by substitution	2
	5. Integration by parts	2
	6 Integration by partial fraction..	2
CO-2 Use the Concept of integration to find area of given curves.	1..Application of Integral Calculus	2
	2.Definite Integral	2
	3.Properties of Definite Integrals and Simple Example.	2
	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	2
	3. Solution of differential equation	2
	4.Variable Separable form	2
	5. Homogeneous Diffrential Equation	2

	6. Linear Differential equation.	2
CO-4 Utilize the concept of Numerical methods to solve given equation.	1. Introduction of Algebraic and transcendental equations	2
	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. Simpson's three eighth rule	2

Subject Teacher : Mrs Manorama Sahu


Manorama Sahu
 Lecturer (Physics)
 Govt. Girls Polytechnic
 Bilaspur (C.G.)