JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : Diploma	**Session : 2022-23**	**Year : 2nd**	**Sem: III**
Course: Applied Mathematics			
Name of the Faculty: Sauraw Kumar	**Commencement Date:29/8/2022**		**Date of Closure: 31/12/2022**

Lecture No.	Week	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarks (i any)
				ICT Tool/Platform/ LMS	Resources	Activity							
1	1	1	Complex Variable: Continuity										
2		1	Problems based on Continuity										
3		1	Introduction to Differentiability										
4	2	1	Problems based on Differentiability										
5		1	Analycity of a function of a complex variable										
6		1	Problems on Analyticity										
7	3	1	Cauchy Riemann Equation - Introduction										
8		1	Problems on Cauchy Riemann Equation										
9		1	Polar form of Cauchy Riemann Equation										
10	4	1	Problems based on Polar form of Cauchy Riemann Equation										
11		1	Harmonic Equation - Introduction										
12		1	Problems on Harmonic Equation										
13		2	Module 2: Ordinary Differential Equation - Order and Degree										

14	**5**	2	Formation of Ordinary Differential Equation										
15		2	Variable separable Method - Explanation with Problems										
16	**6**	2	Problems based on Variable Separable Method										
17		2	Homogeneous Equation - Introduction and Problems										
18		2	Solutions of Bernaulli's Equation										
19	**7**	2	Exact Differential Equation - Introduction and Problems										
20		3	Module 3: - Graph Theory- Graph, Sub Graph										
21		3	Walk, Trail and Path										
22	**8**	3	Connected and Disconnected Graph										
23		3	Edge and Vertex of a graph										
24		3	Hand shaking Theorem										
25	**9**	3	Matrix representation of a graph - Incidence Matrix										
26		3	Adjacency Matrix										
27		3	Spanning Tree										
28	**10**	3	Kruskal's Algorithms for minimal spanning Tree										
29		4	Module 4: - Numerical Solution of Algebraic and Simultaneous Equation: - Bisection Method										
30		4	Regula Falsi Method - Problems based on it										
31		4	Newton Raphson's Method - Problems										

32	**11**	4	Gauss Elimination Method										
33		4	Iterative Method - Gauss siedal Method, Jacobi's Method										
34		4	Definition and property of Laplace Transform										
35	**12**	4	Inverse Laplace Transform										
36		1,2,3,4	Revision										