JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : B. Pharm	**Session : 2022 - 2026**	**Year : 2022**	**Sem: Ist**
Course: Remedial Mathematics			
Name of the Faculty: Wakil Kumar	**Commencement Date:**		**Date of Closure:**

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 (if any)
				ICT Tool/Platform/ LMS	Resources	Activity							
1	1	1	Introduction, Polynomial, Rational fractions, Proper and Improper fractions										
2		1	Partial fraction , Resolvinginto Partial fraction										
3		1	Application of Partial Fraction										
4	2	1	Introduction, Definition, Theorems/Properties of logarithms										
5		1	Common logarithms, Characteristic and Mantissa										
6		1	Application of logarithm to solve pharmaceutical problems										
7		1	Real Valued function, Classification of real valued functions,										

8	3	1	Introduction, Limit of a function, Definition of limit of a function										
9		2	Introduction matrices, Types of matrices										
10	4	2	Operation on matrices, Transpose of a matrix										
11		2	Determinants, Properties of determinants										
12		2	Minors and co- Factors, Adjointor adjugate of a square matrix										
13	5	2	Singular and non-singular matrices, Inverse of a matrix										
14		2	Solution of system of linear of equations using matrix method										
15		2	Characteristic equation and roots of a square matrix										
16	6	2	Cayley–Hamilton theorem										
17		2	Application of Matrices in solving Pharmacokinetic equations										
18		3	Introductions, Derivative of a function										

19		3	Rules for finding derivative										
20	7	3	Successive Differentiation										
21		3	Conditions for a function to be a maximum or a minimum at a point.										
22		3	Application of derivative										
23	8	4	Introduction, Definition, Standard formulae										
24		4	Rules of integration										
25		4	Method of substitution										
26	9	4	Method of Partial fractions, Integration by parts										
27		4	definite integrals, application										
28		4	Signs of the Coordinates, Distance formula										
29	10	4	Slope of a straight line, Conditions for parallelism and perpendicularity of two lines										

30		4	Slope of a line joining two points, Slope – intercept form of a straight line										
31	11	3	Some basic definitions, types and Order and degree of differential equation										
32		4	Solution of differential Equations through variable separable method										
33		4	Homogeneous linear differential equations										
34	12	4	Linear Differential equations										
35		4	Exact linear differential equations										
36		1	Application in solving Pharmacokinetic equations										
37	13	5	Introduction, Definition, Properties of Laplace transform										
38		5	Laplace Transforms of elementary functions										
39		5	Inverse Laplace transforms										
40	14	5	Laplace transform of derivatives, Application to solve Linear differential equations										

41	14	5	Application in solving Chemical kinetics and Pharmacokinetics equations										