JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : B.Sc.Agriculture	**Session : Fall 2022**	**Year : 2022**	**Sem:I**
Course:Fundamentals of Plant Biochemistry and Biotechnology (Practical)			
Name of the Faculty: Dr. Anjani Kumar	**Commencement Date:29-8-2022**		**Date of Closure:30.12.2022**

Lecture No.	Week	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	Preparation of solution, pH & buffers,										
2	2	Qualitative tests of carbohydrates and amino acids.										
3	3	Quantitative estimation of glucose/ proteins.										
4	4	Titration methods for estimation of amino acids/lipids,										
5	5	Effect of pH, temperature and substrate concentration on enzyme action,										
6	6	Paper chromatography/ TLC demonstration for separation of amino acids/ Monosaccharides										
7	7	Sterilization techniques.										
8	8	Composition of various tissue culture media and preparation of stock solutions for MS nutrient medium. Callus induction from various explants										

9	9	Micro-propagation, hardening and acclimatization.										
10	10	Demonstration on isolation of DNA										
11	11	Demonstration of gel electrophoresis techniques and DNA finger printing										