JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson plan tracking

Program: B.Sc. (Hons.) Agriculture	**Session: 2022-2023**	**Year: 2022, Semester: V**

Course: Geoinformatics and Nano-technology and Precision Farming (Theory); Credit:2(1+1); Course: 13A.316

Name of the faculty: Dr. Neeraj	**Blended Mode**	**Commencement date:29.08.2022**		**Date of closure: 31.12.2022**

Lec No.	Weeks	Unit	Topics To Be Covered	ICT Tools	Resources	activity	Date	duration	Tracking of Lecture	Related course outcome	Signature of Faculty	Signature of HOD	Remarks (if any)
1	1	1	Precision agriculture: concepts and techniques										
2	2	1	their issues and concerns for Indian agriculture										
3	3	1	Geo-informatics- definition, concepts, tool and techniques and their use in Precision Agriculture.										
4	4	2	Crop discrimination and Yield monitoring										
5	5	2	soil mapping; fertilizer recommendation using geospatial technologies										
6	6	2	Spatial data and their management in GIS										
7	7	2	Remote sensing concepts and application in agriculture										

8	8	2	Image processing and interpretation										
9	9	3	Global positioning system (GPS), components and its functions										
10	10	3	Introduction to crop Simulation Models and their uses for optimization of Agricultural Inputs										
11	11	3	STCR approach for precision agriculture;										
12	12	4	Nanotechnology, definition, concepts and techniques										
13	13	4	brief introduction about nanoscale effects										
14	14	4	nano-particles, nano-pesticides, nano-fertilizers, nano-sensors										
15	15	4	Use of nanotechnology in seed, water, fertilizer, plant protection for scaling-up farm productivity										