JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson plan tracking

Program: B.Sc. Agri.	**Session: 2022-2023**	**Year: 2021, Semester: V**

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

Name of the faculty: Dr. Neeraj	**Blended Mode**	**Commencement date: 28.09.2022**		**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		Introduction to GIS software, spatial data creation and editing										
2	2		Introduction to image processing software										
3	3		Visual and digital interpretation of remote sensing images										
4	4		Generation of spectral profiles of different objects										
5	5		Supervised and unsupervised classification and acreage estimation.										
6	6		Multispectral remote sensing for soil mapping										
7	7		Creation of thematic layers of soil fertility based on GIS.										
8	8		Creation of productivity and management zones										
9	9		Fertilizers recommendations based of VRT and STCR techniques.										

10	10		Crop stress (biotic/abiotic) monitoring using geospatial technology.										
11	11		Use of GPS for agricultural survey.										
12	12		Formulation, characterization and applications of nanoparticles in agriculture.										
13	13		Projects formulation and execution related to precision farming										