JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
ACCREDITED BY NAAC

Lesson Plan & Tracking

Programe : B.TECH V	**Session : 2021-25**	**Year :3rd**	**Sem: V**
Course: REMOTE SENSING & GIS			
Name of the Faculty: V F	**Commencement Date: 29/8/2022**	**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	Unit 1	Introduction of Remote Sensing –										
2		Unit 1	Energy sources and Radiation principles,										
3		Unit 1	Energy equation, EMR and Spectrum										
4	2	Unit 1	EMR interaction with Atmosphere-scattering,										
5		Unit 1	Absorption, EMR interaction with earth surface features- reflection, absorption,										
6		Unit 1	emission and transmission, Spectral response pattern ,										
7	3	Unit 1	vegetation, soil, water bodies- Spectral reflectance.										
8		Unit 2	Introduction-,Terrestrial and Aerial photographs -										
9		Unit 2	vertical and oblique photographs - height determination contouring -										
10	4	Unit 2	photographic interpretations - stereoscopy –										
11		Unit 2	parallax bar- Flight Planning- Photo Interpretation,										
12		Unit 2	Applications of aerial Photos-Photo theodolite.										
13		Unit 3	Introduction, concepts , Information system , components of GIS,										

14	**5**	**Unit 3**	History, Geospatial data architecture, Operations,										
15		**Unit 3**	Geographic co ordinate systems, Map projections, concepts,										
16	**6**	**Unit 3**	Input data for GIS , display ,types of output products.										
17		**Unit 3**	GIS categories, Level and scale of Measurement,										
18		**Unit 3**	importance of data quality.										
19	**7**	**Unit 4**	GIS data types, data Representation, Data sources,										
20		**Unit 4**	typical GIS data sets, Data Acquisition, vector data model ,										
21		**Unit 4**	relationship between classes, data structure,										
22	**8**	**Unit 4**	Database Management, Data Management and Analysis;										
23		**Unit 4**	Advantages and disadvantages of Raser or Vector Data ;										
24		**Unit 4**	Uses of GIS.										
25	**9**		Doubt Discussion										
26			Doubt Discussion										
27			Doubt Discussion										