



Indraprastha College for Women

University of Delhi

Course Name:	B A Hons. Geography
Paper Title:	Fundamentals of Remote Sensing
Unique Paper Code:	2292102303
Semester:	3 rd
Faculty(s):	Dr. Sneh Gangwar
Year:	July - November 2026

Work Plan			
Period	Unit No.	Learning Objective	Topics to be Covered
28 st Aug -3 rd Aug	Unit 1	To apprise the students of the relevance of Remote Sensing in Geography and the historical growth of satellites in India and the World	Meaning and Definitions of Remote Sensing Historical Evolution of Remote Sensing
5 th Aug-10 th Aug	Unit 1	To impart the knowledge of fundamentals of remote sensing and its applications	Platforms Types of Remote Sensing Types of Resolutions Satellites Data Courses/ Search Engines Software
12 th Aug-17 th Aug	Unit 2	To facilitate the students to have hands on experience on different steps of visual interpretation of satellite images & photographs.	Aerial Photos: Geometry and Types of Aerial Photography,
19 th Aug-24 th Aug	Unit 2		Stereoscope, Annotation, Interpretation Keys, and Interpretation
26 th Aug-31 st Aug	Unit 3	Image Interpretation	Image Interpretation
2 nd Sep-7 th Sep	Unit 3	Software Exercises	Q GIS
9 th Sep-14 th Sep	Unit 4	Satellite Image Processing	Satellite Image Processing Explaining DIP
16 th Sep-21 st Sep	Unit 4	Image Processing Techniques	Pre-processing, Image Enhancement T and other processing techniques
23 rd Sep-28 th Sep	Unit 4	Image Classification	Image Classification, Supervised Classification
30 th Sep-5 th Oct	Unit 4	Image Classification	Unsupervised Classification, LULC Classification, Geometric Corrections
7 th Oct-12 th Oct	Unit 5	Application of Remote Sensing:	Land Use/ Cover

14 th Oct-19 th Oct	Unit 5	Hands-on exercises	Urban Sprawling
			Vegetation Monitoring
18 th Oct-25 th Oct		BREAK	MID-SEMESTER BREAK
4 th Nov-9 th Nov	Practical	Practical Demonstration	Hands-on Exercise
11 th Nov-15 th Nov	Practical		Hands-on Exercise
15 th Nov-18 rd Nov	Practical		Plates and File Work
19 th Nov	Practical		Plates and File Work
20 th Nov	DISPERSAL OF CLASSES		

Unit	TOPICS
I	Introduction to Remote Sensing
II	Aerial Photos: Geometry and Types of Aerial Photography, Stereoscope, Annotation, Interpretation Keys, and Interpretation
III	Satellite Remote Sensing
IV	Satellite Image Processing
V	Application of Remote Sensing
S. No.	Name of Authors/Books/Publishers
1.	Anji Reddy, Remote Sensing and Geographical Information Systems, BS Publications 2001
2.	Lillesand T.M. and Kiefer R.W. Remote Sensing and Image Interpretation, John Wiley and Sons, Inc, New York.
3.	Barrow, G. M., 1962, Introduction to Molecular Spectroscopy, New York, McGraw-Hill.
4.	Hunt, G. R, Salisbury, J. W., and Lenyoff, C. J., 1973, Visible and Near Infrared Spectra of Minerals and Rocks. V11. Acidic Igneous Rocks, Modern Geology, Vol. 4, pp 217-224.
5	Campbell, J. C., and Wynne, R. H. (2022) Introduction to Remote Sensing, 5th ed. The Guilford Press. New York 622p.

	Paper Components		
Credits	Lecture (L)	Tutorial (T)	Practical (P)
			8P
Assessment Scheme			
S.No.	Component	Marking Scheme	Total Marks
1	Internal Assessment - Assignment - Class Test - Attendance		
2.	Continuous Assessment (Tutorial) - Activity 1 - Activity 2 - Attendance		
3.	Practical - Continuous Assessment - End Term Written/Practical Exam - Viva		160
		40	
		80	
		40	
4.	End Semester Examination		160