



Indraprastha College for Women University of Delhi

Work Plan for ODD SEMESTER – 2026

Course Name:	B.A. (H) Geography
Paper Title:	Digital Cartography (P)
Unique Paper Code:	2299101103
Semester:	I
Faculty:	Mr. Shubham Kumar Sanu
Year:	August 2026 - December 2026

Work Plan			
Unit No.	Learning Objective	Lecture No.	Topics to be Covered
Unit 1	To Explain about Maps.	1-15	Maps: Concepts and Classification, Coordinate System, Nature and Scope- Analogue and Digital Cartography. History and evolution of Cartography: Western And Indian Perspectives Digital Cartography: Basics of Raster and Vector Data
Unit 2	To Explain concept of Scale	16-36	Scale: Plain, Comparative and Diagonal: Construction and Applications And Lab Exercises with file work.
Unit 3	To Explain concept of Map Projection	37-56	Map Projections: Concept of Datum and Spheroid, Fundamentals of Projection- Classification, Properties, Uses and Limitations of Polar Zenithal - Stereographic, Conical Projection with two standard parallel and Mercator's Projections. Concept and Use of UTM And Lab Exercises with file work.
Unit 4	Understand Topographic Maps	57-76	Interpretation of

			Topographic Maps, Conventional Symbols, Cross and Longitudinal Profiles, Identification and Inter-relationships between physical and cultural features in the mountain regions. And Lab Exercises with file work.
Unit 5	To explain about map elements	77-90	Concept of Map elements in Digital Cartography And Lab Exercises with file work.

Unit	Contents/Syllabus
I	Maps: Concepts and Classification, Coordinate System, Nature and Scope- Analogue and Digital Cartography. History and evolution of Cartography: Western And Indian Perspectives Digital Cartography: Basics of Raster and Vector Data
II	Scale: Plain, Comparative and Diagonal: Construction and Applications
III	Map Projections: Concept of Datum and Spheroid, Fundamentals of Projection- Classification, Properties, Uses and Limitations of Polar Zenithal -Stereographic, Conical Projection with two standard parallel and Mercator's Projections. Concept and Use of UTM
IV	Interpretation of Topographic Maps, Conventional Symbols, Cross and Longitudinal Profiles, Identification and Inter-relationships between physical and cultural features in the mountain regions.
V	Concept of Map elements in Digital Cartography
S. No.	Name of Authors/Books/Publishers
1.	<i>Misra, R P (2014) Fundamentals of Cartography. Concept PUBLISHING, New Delhi. India</i>

2.	Cuff J D and Mattson M T (1982). Thematic Maps: Their Design and Production. Methuen Young Books.
3.	Sharms J P , 2010: Prayogic Bhugol. Rastogi Publishers, Meerut.

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