



Indraprastha College for Women

University of Delhi

Course Name:	B.A. (H) Geography
Paper Title:	Digital Cartography (Practical)
Unique Paper Code:	2299101103
Semester:	1
Faculty(s):	Dr. Rajan Maurya
Year:	2026-27

Work Plan			
Period	Unit No.	Learning Objective	Topics to be Covered
28 th July-03 th Aug	1	Understanding the concept of Maps and history of Cartography	Maps: concepts and classification,
4 th Aug-05 th Aug	1	Understanding the concept of Maps and history of Cartography	Maps: concepts and classification, Coordinate system, Nature and scope- Analogue and Digital cartography
5 th Aug-07 th Aug	1	Understanding the concept of Maps and history of Cartography	History and evolution of cartography: Western and Indian perspectives
07 th Aug-10 th Aug	1	Understanding the concept of Maps and history of Cartography	Digital Cartography: Basics of Raster and Vector Data
11 th Aug-15 th Aug	2	Students are taught types of methods to represent scale	Concept of scale and its application, Construction of Plain scale
15 th Aug-30 th Aug	2	Students are taught types of methods to represent scale	Construction of Comparative and Diagonal scale
01 st Sept- 10 th Sept	3	Introduction to Map projections, briefing on types of projections and their uses	Concept of Datum and Spheroid, Map Projections and its types, Construction, uses and limitations of Mercator's projection
11 th Sep-15 th Sept	3	Introduction to Map projections, briefing on types of projections and their uses	Construction, uses and limitations of Mercator's projection, Construction, uses and limitations of Polar-zenithal stereographic projection
16 th Sep-20 th Sept	3	Introduction to Map projections, briefing on types of projections and their uses	Construction, uses and limitations of Conical projection, Concept and use of UTM
21 st Sept-30 th Sept	4	Interpretation of Topographical sheets	Interpretation of topographic maps, conventional symbols

01 st Oct-17 th Oct	4	Interpretation of Topographical sheets	Cross and longitudinal profiles, Identification and Inter-relationships between physical and cultural features in mountainous regions
18 th Oct-25 th Oct			AUTUM VACATION
26 th Oct- 30 th Oct	5	Concept of map elements in digital cartography	Introduction to map created using GIS software, discussion on elements of digital maps
1 st Nov-10 th Nov	5	Concept of map elements in digital cartography	Introduction to map created using GIS software, discussion on elements of digital maps
11 th Nov-15 th Nov	5	Concept of map elements in digital cartography	Hands on practice on GIS software
15 th Nov-19 th Nov		Revision of all topics and Practical File Work	
20 th November, 2026			DISPERSAL OF CLASSES

Unit	TOPICS
I	Introduction to concept of maps and cartography
II	Concept of scale: construction and uses
III	Concept of Map projections: Construction, Uses and Limitations
IV	Interpretation of Topographic Maps
V	Introduction to Digital Cartography

S. No.	Name of Authors/Books/Publishers
1.	Monkhouse, F.J. and Wilkinson, H.R. (1973). Maps and Diagrams. Methuen Young Books.
2.	Mishra R. P. and Ramehs A. (1989). Fundamentals of Cartography. Concept Publication. New Delhi
3.	Sharma J.P., 2010: Prayogic Bhugol. Rastogi Publishers, Meerut.
4.	Cuff J.D. and Mattson M.T. (1982). Thematic Maps: Their Design and Production. Methuen Young Books.