

CURRICULUM PLAN, 2025-2026

B.A. (Hons.) Geography

Semester – I (NEP)

Name of the Teacher: Dr. Geeta Kumari and Dr. Usha K Pathak

Paper Name: Digital Cartography

Unit No.	Name of Topic	Tutorial/Assignment/ Presentation etc.	Allocation of Lectures	Assessment Tasks	Teaching and Learning Activity
1	Cartography: Definition (as the science of Map-making) History and Evolution of Cartography: Western & Indian Perspectives Concept & Classification of maps Coordinate system (Latitude, Longitude, Graticule and Grid) Forms of Cartography – Analogue and Digital Digital Cartography: Basics of Raster and Vector data (Demonstration using Q-GIS)	<ul style="list-style-type: none">• Definition• History and Evolution of Cartography: Western & Indian Perspectives• Concept & Classification of maps• Coordinate system (Latitude, Longitude, Graticule and Grid)• Forms of Cartography – Analogue and Digital• Digital Cartography: Basics of Raster and Vector data (Demonstration using Q-GIS)	(10) 1st Aug -30th Aug 2025	Assignments, Hands-on Exercise, classroom test.	Classroom Lectures, Practical
2	Construction & Application of: Plain/Simple scale, Comparative Scale & Diagonal Scale	<ul style="list-style-type: none">• Plain/Simple Scale• Comparative Scale• Diagonal Scale	(20) 1st Sep 2025- 24th Sep 2025	Assignment s, Hands- on exercise, classroom test.	Classroom Lectures, Practical

3	Map Projection: Definition& Classification Concept of Datum and Spheroid Construction, Properties, Uses and Limitation of Polar Zenithal Stereographic Projection, Conical Projection with Two Standard Parallels, Mercator's projection Concept of UTM	<ul style="list-style-type: none"> • Datum and Spheroid • Polar Zenithal Stereographic Projection, • Conical Projection with Two Standard Parallels • Mercator's projection • Concept of UTM 	(20) 27th Sep 2025- 09th Oct 2025	Assignments, Hands-on exercise,	Classroom Lectures, Practical
4	Topographical Map: Concept, Numbering of Toposheet. Conventional symbols Cross and Longitudinal Profiles. Interpretation of Topographic map- Identification and Interrelationships between Physical and Cultural Features in a mountain Region	<ul style="list-style-type: none"> • Cross and Longitudinal Profiles. • Interpretation of Topographic map. • Identification and Interrelationships between Physical and Cultural Features. 	(20) 12th Oct 2025 - 30th Oct 2025	Assignments, Hands-on exercise, classroom test.	Classroom Lectures, Practical
5	Concept of Point, Line and Areal Data Elements of Map design Exercise (Creation of a Digital Map using Q-GIS)	<ul style="list-style-type: none"> • Point, Line and • Areal Data Elements of Map design Exercise Q-GIS 	(10) 1stNov 2025- 12th Nov 2025	Assignments, Hands-on exercise, classroom test,	Classroom Lectures, Practical