

CURRICULUM PLAN, 2025-2026**B.A. (Hons.) Geography****Semester – I (NEP)**

**Name of the Teacher: Dr. Usha K. Pathak
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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	Plain/Simple Scale, Comparative Scale Diagonal Scale	(20) 1 st Sept - 24th Sept 2025	Assignment s, Hands-on exercise, classroom test.	Classroom Lectures, Practical

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