

CURRICULUM PLAN, 2024-2025

B.A. (Hons.)

Geography

Semester – I (NEP)

Name of the Teacher: 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	<p>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)</p>	<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) 	<p>(10) 29th Aug -20th Sep 2024</p>	<p>Assignments, Hands-on Exercise, classroom test.</p>	<p>Classroom Lectures, Practical</p>
2	<p>Construction & Application of: Plain/Simple scale, Comparative Scale & Diagonal Scale</p>	<ul style="list-style-type: none"> • Plain/Simple Scale. • Comparative Scale Diagonal Scale 	<p>(20) 21 st Sep 2024- 20 th Oct 2024</p>	<p>Assignment s, Hands- on exercise, classroom test.</p>	<p>Classroom Lectures, Practical</p>

3	Map Projection: Definition&Classification Concept of Datum and Spheroid Construction, Properties,Uses and Limitation of Polar Zenithal Stereographic Projection, Conical Projection withTwo Standard Parallels, Mercator’s projection Concept of UTM	<ul style="list-style-type: none"> • Datum andSpheroid • Polar Zenithal Stereographic Projection, • Conical Projection withTwo Standard Parallels • Mercator’s projection • Concept of UTM 	(20) 27 th Oct 2024- 19 th Nov 2024	Assignmen ts, Hands-on exercise,	Classroom Lectures, Practical
4	Topographical Map: Concept, Numbering of Toposheet. Conventional symbols Cross and LongitudinalProfiles. 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) 20 th Nov 2024 - 27th Dec 2024	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) 1 st Jan 2025-14th Jan 2025	Assignmen ts, Hands- onexercise, classroom test,	Classroom Lectures, Practical