

CURRICULUM PLAN, 2024-2025

B.A. (Hons.)

Geography

Semester – I (NEP)

Name of the Teacher: Dr. Pradeep Kumar Upadhyay and Dr. Geeta Kumari

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) 29th Aug -20th Sep 2024	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) 21st Sep 2024- 20th Oct 2024	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 • Polar Zenithal Stereographic Projection, • Conical Projection with Two Standard Parallels • Mercator's projection • Concept of UTM 	<p>(20) 27th Oct 2024- 19th Nov 2024</p>	<p>Assignments, Hands-on exercise,</p>	<p>Classroom Lectures, Practical</p>
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>	<ul style="list-style-type: none"> • Cross and Longitudinal Profiles. • Interpretation of Topographic map. • Identification and Interrelationships between Physical and Cultural Features. 	<p>(20) 20th Nov 2024 - 27th Dec 2024</p>	<p>Assignments, Hands-on exercise, classroom test.</p>	<p>Classroom Lectures, Practical</p>
5	<p>Concept of Point, Line and Areal Data Elements of Map design Exercise (Creation of a Digital Map using Q-GIS)</p>	<ul style="list-style-type: none"> • Point, Line and Areal Data • Elements of Map design Exercise Q-GIS 	<p>(10) 1st Jan 2025- 14th Jan 2025</p>	<p>Assignments, Hands-on exercise, classroom test,</p>	<p>Classroom Lectures, Practical</p>