Department of Geography
A B N Seal College, Cooch Behar
Add On Course
"LET'S DRAW A MAP"

COURSE CONTENT

COURSE DURATION: 32 HOURS **No. of Seats:** 30

COUSE CURRICULUM:

- Evolution of Cartography : Historical Development
- Introduction to Map Projection, Manual drawing
- Digital map Projection: introduction to G.Projector Software
- Hands on Training on G.Projector Software
- Basic Concepts of Remote Sensing & its Chronological Development
- Analogue Method of Remote Sensing: Identification & interpretation of surface features using Mirror Stereoscope
- Introduction to GIS

METHODOLOGY:

- Theoretical Classes: 15 hours
- Practical Classes: 10 hours
- Group Discussion: 01 hour
- Assignment: 05 hours
- Evaluation: 01 hour

RESOURCE PERSONS:

- Dr. Writuparna Chakraborty, Associate Professor of Geography, A.B.N. Seal College
- Sri Partha Das, Assistant Professor of Geography, A.B.N. Seal College
- Smt. Suchitra Ray, Assistant Professor of Geography, A.B.N. Seal College
- Sri Subrata Mondal, Assistant Professor of Geography, A.B.N. Seal College
- Mr. Sahidul Karim, Assistant Professor of Geography, A.B.N. Seal College
- Dr. Shraban Sarkar, Assistant Professor of Geography, Cooch Behar Panchanan Barma University
- Dr. Tapan Kumar Das, Assistant Professor of Geography, Cooch Behar College
- Sri Abhijit Sen, Faculty of Geo-informatics, Cooch Behar College

Head of the Department
Department of Geography
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Course Outcome

Upon successful completion of this course, students will:

Gain knowledge about the basic concepts of Cartography:
Develop clear and visually effective maps by applying principles of cartography. Understand and employ symbology, colour theory, and labelling techniques to enhance map readability and communication.

Master Map Projection Techniques:
Evaluate and select appropriate map projections for different spatial datasets and purposes. Critically analyse the distortion properties of various map projections and make informed decisions based on specific mapping needs.

Apply Remote Sensing Concepts:
Utilize remote sensing technology to collect, interpret, and analyse spatial data from satellite, aerial, and ground-based platforms. Integrate remote sensing imagery into GIS applications for improved spatial analysis and decision-making.

Introductory GIS Competence:
Acquire foundational knowledge in Geographic Information Systems (GIS), understanding key concepts such as spatial data types, coordinate systems, and geodatabases. Develop practical skills in using GIS software for basic spatial analysis, mapping, and data visualization.

Integration of Cartography, Map Projection, Remote Sensing, and GIS:
Integrate cartographic principles, map projections, remote sensing techniques, and GIS tools to solve real-world spatial problems.

Critical Thinking and Problem-Solving:
Apply critical thinking skills to evaluate the appropriateness of different spatial data sources, methodologies, and tools for specific geospatial tasks.
Solve spatial problems by selecting and implementing suitable cartographic, map projection, remote sensing, and GIS approaches.

Effective Communication of Geospatial Information:
Communicate complex geospatial information effectively through maps, reports, and presentations.
Demonstrate the ability to convey spatial analysis results and findings with varying levels of technical expertise.

Geospatial Practices:
Recognize and adhere to ethical considerations in the collection, use, and dissemination of geospatial data.
Demonstrate awareness of the social and environmental implications of geospatial technologies and practices.
By achieving these outcomes, students will be well-prepared to apply geospatial concepts and techniques in diverse professional settings, ranging from environmental science and urban planning to disaster management and business analytics.

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