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(Accredited NAAC with Grade “B”)

DEPARTMENT OF GEOGRAPHY

Report on Land Use Land Cover Map Making Field Survey (2022-2023)

Introduction

A team of 29 students of Semester II (Honours) of the Department of Geography has visited Rambani Mouza of Kshipur Block, Puruliya, West Bengal on 15.04.2023. The main purpose of the visit was to prepare a Land Use and Land Cover (LULC) Map for the fulfillment of the requirement of the UG Semester II Geography Honours syllabus (Course Code:BGEOCCHS202 & Course Title: Cartograms and Thematic Mapping). The syllabus of the course has been attached herewith.

CC 4 – Cartograms and Thematic Mapping

Concepts in Theory

1. Concepts of rounding, scientific notation, logarithm and anti-logarithm, natural and log scales
2. Diagrammatic representation of data: Line, Bar, and Circle
3. Representation of point data: Isopleths.
4. Representation of area data: Dots, proportional circles and choropleth
5. Preparation and interpretation of large scale thematic maps: Geomorphological maps from Toposheet
6. Preparation and interpretation of large scale thematic maps: Climatological maps – Synoptic Chart
7. Preparation and interpretation of large scale thematic maps: Landuse/landcover maps – Based on Local Cadastral Map of Village / any Ward map of Municipality
8. Preparation and interpretation of large scale thematic maps: Socio-economic maps using Z-score and LQ techniques.

List of Practical

A Project File, comprising one exercise each is to be submitted

9. Survey using Prismatic Compass and Dumpy Level
10. Thematic maps: Proportional squares, pie diagrams with proportional circles, dots and spheres
11. Thematic maps: Choropleth, isoline map, Chorochromatic map.
12. Geomorphological maps, Synoptic Chart, Landuse/landcover maps and Socio-economic maps.

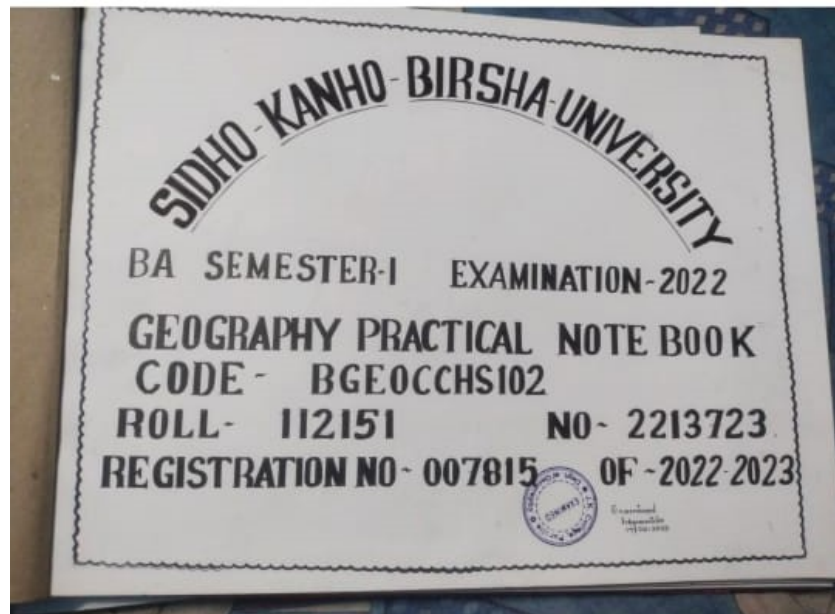
Reading References:

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- Dent B. D., Torguson J. S., and Holder T. W., 2008: Cartography: Thematic Map Design (6th Edition), Mcgraw-Hill Higher Education
- Gupta K. K. and Tyagi V. C., 1992: Working with Maps, Survey of India, DST, New Delhi.
- Kraak M.-J. and Ormeling F., 2003: Cartography: Visualization of Geo-Spatial Data, Prentice-Hall.
- Mishra R. P. and Ramesh A., 1989: Fundamentals of Cartography, Concept, New Delhi.
- Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
- Slocum T. A., McMaster R. B. and Kessler F. C., 2008: Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
- Tyner J. A., 2010: Principles of Map Design, The Guilford Press.
- Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.

The list of student who has participated in the field survey is given below.

SI No.	Name of the Students	Age	Sex
1	Arpita Mandal	19	F
2	Arati Singh Sardar	19	F
3	Shakuntala Mahato	19	F
4	Manika Paramanik	19	F
5	Shubhra Mahato.	19	F
6	Kiranmayee Mahato	19	F
7	Sonali Hembram.	19	F
8	Koyel Saren	19	F
9	Brasha Tiwari.	19	F
10	Brasha Goswami.	19	F
11	Pallabi Mishra.	19	F
12	Poulami Mishra	19	F
13	Jhinai Dubey.	19	F
14	Supriya Mahato.	19	F
15	Manju Majhi	19	F
16	Sushanta Mahato	19	M
17	Rajkumar Paramanik	19	M
18	Sk Salman	19	M
19	Rahul Bhattacharya	19	M
20	Nikhilesh Bouri	19	M
21	Niroj Kisku	19	M
22	Santanu Bauri	19	M
23	Snehasish Mahato	19	M
24	Kingshuk Khan	19	M
25	Partha Sarathi Pandey	19	M
26	Himangshu MAHATO	19	M
27	Ujjal Roy	19	M
28	Jagadish Kumbhakar	19	M
29	Chinmay Besra	19	M
30			

- Attached the Practical notebook contending Front page, Contents & LUCL map writing, map & interpretation.
- Few Photo plates of the Survey



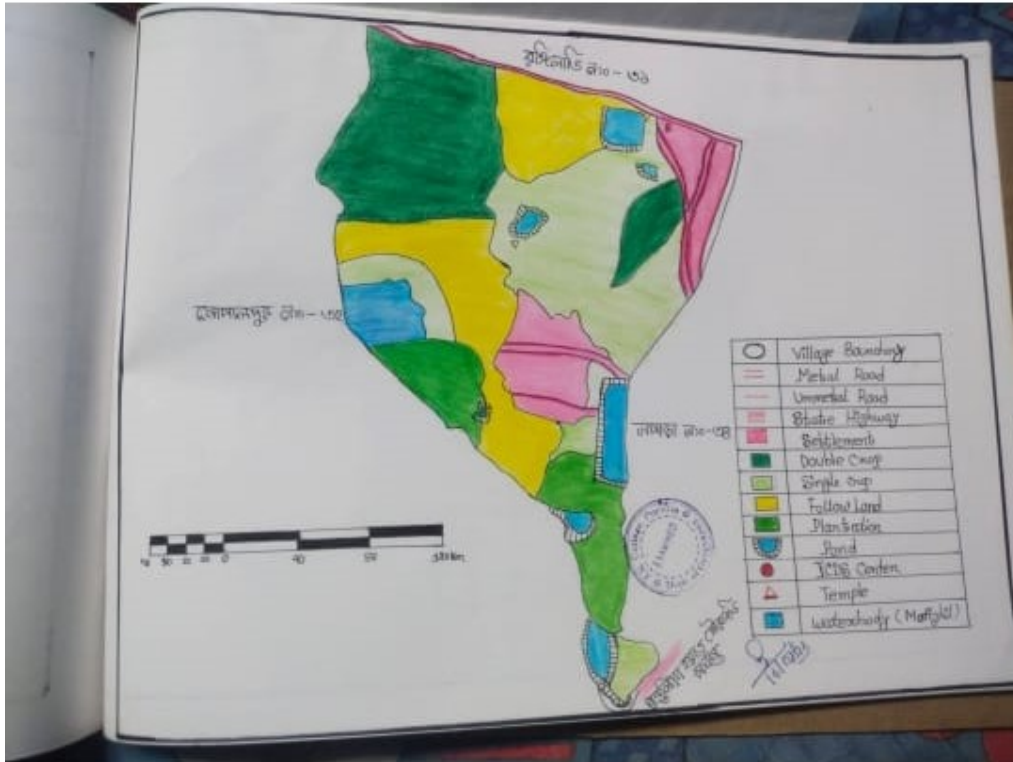
<u>CARTOGRAM</u>	
	1-1 Circle Diagram
	1-2 Pie Diagram
	1-3 Dot Map
	1-4 Square Diagram
	1-5 Sphere Diagram

<u>SURVEYING</u>	
	2-1 Plane Table
	2-2 Dumpy Level

<u>THEMATIC MAP</u>	
	3-1 Choropleth Map
	3-2 Symbolic charts
	3-3 Geomorphological Map
	3-4 Landuse and Landcover Map
	3-5 Z-Base

LANDUSE LANDCOVER MAP

Introduction:
Landcover means how much of a region is covered by forests, wetland, impenetrable surface, agriculture and other types of land and water types. Landuse shows how people use the landscape - whether for development, conservation or other uses.
Landcover determined by analyzing satellite and aerial imagery - land use can not be determined from satellite imagery. Landcover maps provide information to help managers understand the current landscape. To see change over time, landcover maps for several different years are needed.



Survey Team at Rambani Mouza, Kashipur, 2023