



# DHRUBA CHAND HALDER COLLEGE

(FORMERLY DAKSHIN BARASAT COLLEGE)

ESTD. - 1965

A NAAC Accredited Degree College Affiliated to University of Calcutta

P.O. - Dakshin Barasat Dist. - South 24 Parganas West Bengal Pin - 743372

E-mail: dchcollege@yahoo.com, Website: www.dchcollege.org

Phone: (03218) -222550 (Prin.) /223-668 (Off.)

## DEPARTMENT OF GEOGRAPHY

### Programme Specific Outcomes (PSO)

PSO1- The students will be enlightened with global tectonic mechanism, earth surface features, geology, concept and measuring of distance.

PSO2- The students will have an idea about the evolution of human society and culture, settlements, spatial & temporal distribution of population. How to prepare & interpret the geological & weather map & will also help to learn the use of surveying instruments.

PSO3- The students will be enlightened with the interrelationship between different elements of weather, atmospheric disturbances, climate change phenomenon. It will also help to know about surface & groundwater hydrology, oceanic features, coastal morph dynamics, coastal hazards & management and also the use of statistical techniques to measure different parameters.

PSO4- The students will have an idea about sectors of economy, the significance of location in economic benefits, GDP, objectives & significance of regional planning, Physical & Chemical properties of soil, problems of soil erosion, detailed discussion on Biosphere and sustainable approach to the environment.

PSO5- This helps the students to build the conceptual framework about the research design, significance of study and analytical ability for a student. Remote sensing, GIS & GNSS helps to enhance the skill to process & analyse data obtained through satellites.

PSO6- The students will have the knowledge about earth surface features (mechanism of development and evolution), human society & culture, regionalization, significance of regional planning, environmental issues, concept of sustainability and enhance the skill to analyse and represent data using cartographic techniques.

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## COURSE OUTCOMES (CO)

### HONOURS COURSE

CC1

#### GEOTECTONICS & GEOMORPHOLOGY

Is about all endogenic forces, tectonic activities, Earth's structural evolution and evolution of landforms (coastal, glacial, Aeolian). This section also includes theories on landscape evolution. The practical course encompasses megascopic identification of rocks and minerals and extraction and interpretation of geomorphic information from topographical sheets.

CC2

#### CARTOGRAPHIC TECHNIQUES

Components and classification of maps, concept and application of scales, Representation of data: primary, secondary. The practical course includes construction of scales and map projections, preparation of thematic maps.

This section will enlighten the students with global tectonic mechanism, earth surface features, geology, concept and measuring of distance.

CC3

#### HUMAN GEOGRAPHY


Elements of human geography, concept of race and ethnicity, evolution of human society, population, demographic transition and rural - urban settlements. The practical course includes presentation of spatial and temporal variation of population data.

CC4

#### CARTOGRAMS, THEMATIC MAPPING & SURVEYING

Preparation and interpretation of geological and weather maps, land use land cover maps and basic concepts of surveying and surveying equipment. Practical course includes surveying using instruments and preparation of geological maps.

This section will provide an idea about the evolution of human society and culture, settlements, spatial & temporal distribution of population. How to prepare & interpret the geological & weather map & will also help to learn the use of surveying instruments.

  
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## CC5 CLMATOLOGY

This section describes the interrelationship between different elements of weather, overview of climate change. Also includes the atmospheric disturbances and climatic classification. Practical course is about the measurement of weather elements using analogue instruments and interpretation of weather map (pre-monsoon, monsoon and post-monsoon).

## CC6 HYDROLOGY & OCEANOGRAPHY

This section is about surface and groundwater hydrology. The oceanography part describes physical and chemical properties of ocean water, reefs, marine resources and sea level change. Practical course analyse the hydrographs and climatic water budget.

## CC7 STATISTICAL METHODS IN GEOGRAPHY

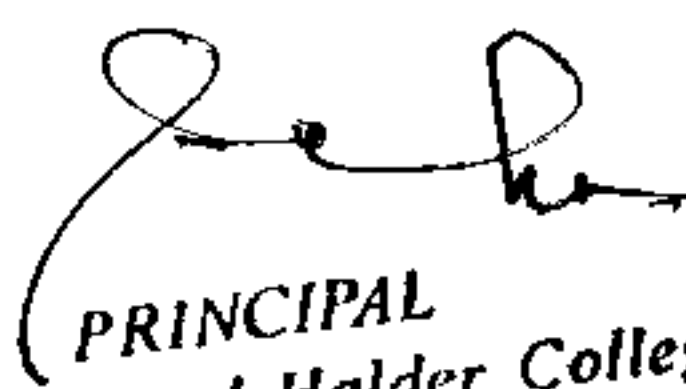
This portion of the course state the significance of statistics in geography. Data collection, sampling and numerical data analysis. Practical course is about data analysis and interpretation of the findings.

## SEC - Coastal Management / Tourism Management

Coastal management is about the coastal morph dynamics, environmental impacts of mining in coastal areas, management strategies to combat the coastal hazards and principals of coastal management. Tourism management discusses about scope and issues regarding tourism' information to plan destination marketing, tourism impact assessment and global tourism.

This section will enlighten the students with the interrelationship between different elements of weather, atmospheric disturbances, climate change phenomenon. It will also help to know about surface & groundwater hydrology, oceanic features, coastal morph dynamics, coastal hazards & management and also the use of statistical techniques to measure different parameters.

CC8  
ECONOMIC GEOGRAPHY This section discusses about the sectors of economy, locational theories, international trade and WTO. Practical course describes GDP, temporal analysis of production and transport network analysis.

  
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CC9

## REGIONAL PLANNING & DEVELOPMENT

It gives the glimpse of principles and objectives of regional planning, multilevel planning, concept of growth and development, models on regional development and underdevelopment. Practical course includes measuring inequality, delineation of formal and functional regions.

CC10

## SOIL & BIOGEOGRAPHY

This portion discusses about physical and chemical properties of soil, problems of soil erosion. Biogeography discusses about biosphere, ecosystem, biomes, deforestation and biodiversity. Practical course is about determination of soil pH and salinity, textural plotting and determination of plant species diversity.

## SEC - Rural Development / Sustainable Development

Rural development describes about concept and basic elements and measures of level of rural development, areal approach and rural governance. Sustainable development describes about concept, background, components and limitations of such development.

This section will provide the idea about sectors of economy, the significance of location in economic benefits, GDP, objectives & significance of regional planning, Physical & Chemical properties of soil, problems of soil erosion, detailed discussion on Biosphere and sustainable approach to the environment.

CC11


## RESEARCH METHODOLOGY & FIELDWORK

This portion is about significance of study, formulation of research design, defining the problem, objectives and hypothesis, helps to learn the techniques of writing the report and plagiarism. Field work is a hands-on course which incorporates the analysis of data obtained from both primary and secondary survey and the interpretation of the research findings and recommendations.

CC12

## REMOTE SENSING, GIS and GNSS

The course is about image enhancement, classification of supervised data, data attachment and preparation of annotated thematic maps. The Practical course helps to application of IRS - LANDSAT data. Preparation of FCC images, GIS data analysis and GNSS positioning and waypoint collection.

  
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## DSE-A-1 FLUVIAL GEOMORPHOLOGY

This portion provides a detailed study on fluvial channels with references, examples and problems of river bank erosion. This portion also focus on river basin area and management of the fluvial system.

## DSE-B-1 SETTLEMENT & CULTURAL GEOGRAPHY

It is about the cultural elements (cultural diffusion, diversity, realm, religion, language) & settlement (types and distribution). It also enlightens about world racial groups & cultural regions of India. The course helps to build the conceptual framework about the research design, significance of study and analytical ability for a student. Remote sensing, GIS & GNSS helps to enhance the skill to process & analyse data obtained through satellites.

CC13

## EVOLUTION OF GEOGRAPHICAL THOUGHT

The philosophy of geography is about the 'Pre-Modern Geography' and the foundations of modern Geography and recent trends (structural, behavioural, humanistic, radical approach). Practical course involves changing perception of maps and mapping voyages.

CC14

## HAZARD MANAGEMENT


This portion comprises the concept of hazard and disaster. Hazard mapping and hazard specific study on West Bengal and India. Factors, vulnerability, consequences and management. Practical course involves preparation of a group project on a specific hazard.

## DSE-A-4 RESOURCE GEOGRAPHY

This part discusses about the distribution of resources in India and the management strategies. This portion focuses on regional spatial mapping of resources. Resource impact assessment and analysis of data. Geography of India is about the physical as well as resource features of India, development and distribution.

## DSE-B-3 URBAN GEOGRAPHY

This course focuses on different approaches, trends of urban Geography in India. As well as discusses about different theories of urban growth and evolution. Different ecological process of urban growth, policies and case studies of urban cities has discussed in this course.

  
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## COURSE OUTCOMES (CO) GENERAL

CC1: Is about the physical features of earth's surface. The degradation processes and resultant landforms.

CC2: Describes about environmental issues. Problems and management strategies.

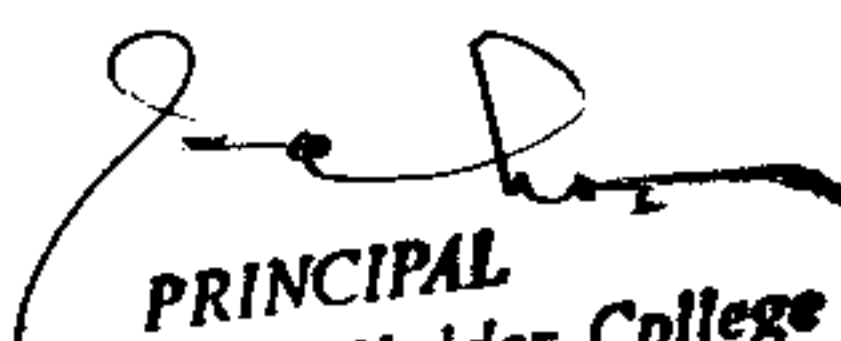
CC3: Is about human geography. Human society, social organisations, social issues and cultural aspects.

CC4: Is about cartographic techniques and SEC Rural development / Sustainable development. Cartographic techniques involve representation of data. Sustainable development describes the management strategies involved the preservation of resources.

CC5; DSE Regional development involves regional planning, growth centre model (Indian context), regionalization, concept of development and under development. SEC coastal management describes the problems of coastal erosion, causes, consequences and the recommendations.

CC6: Population geography This portion involves the concept and approaches to population geography. Determinants, development, pattern and problems. Also discusses about the contemporary issues of population component. SEC Rural development / Sustainable development. It is about the problem of depletion of resources and the sustainable management strategies.

The course imparts the knowledge about earth surface features (mechanism of development and evolution)'human society & culture, regionalization, significance of regional planning, environmental issues' concept of sustainability and enhance skill to analysis and represent data using cartographic techniques.

  
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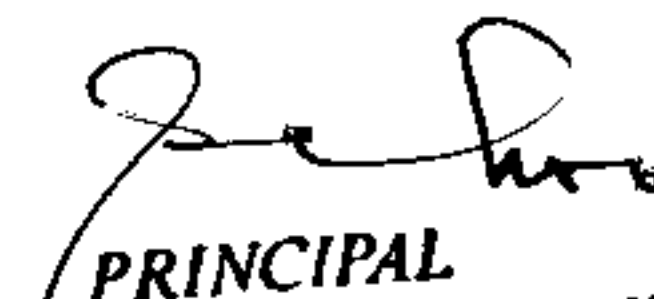
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## CO & PSO MAPPING – HONOURS

Course Outcome(co) of	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CC1	√					
CC2	√					
CC3		√				
CC4		√				
CC5			√			
CC6			√			
CC7			√			
CC8				√		
CC9				√		
CC10				√		
CC11				√		
CC12					√	
CC13					√	
CC14						√
SEC-A-3-01						√
SEC-B-4-03						√
DSE-A-5-01				√	√	
DSE-B-5-01		√	√			√
DSE-A-6-04		√				√
DSE-B-6-03		√				√

## CO & PSO MAPPING – GENERAL

Course Outcome(co) of	Programme specific outcome					
	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CC1/GE1	√	√				
CC2/GE2		√				
CC3/GE3						
CC4/GE4			√	√		√
SEC-A-3/5-01				√		√
SEC-B-4/6-03				√		√
DSE-A-5-01				√		√
DSE-B-6-04				√		√

  
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