

COURSE OUTCOME
DEPARTMENT OF GEOGRAPHY
A. P. C. COLLEGE, NEW BARRACKPUR

COURSE	COURSE PREREQUISITE	EXPECTED OUTCOME
GEOACOR 1T: GEOTECTONIC AND GEOMORPHOLOGY	Fundamental knowledge on physical geography	Acquire knowledge about: <ul style="list-style-type: none"> ● Earth's structural evolution with geological time ● Isostasy ● Plate movement and resultant landforms ● Process of erosion, deposition and resultant landforms.
GEOACOR 1P: GEOTECTONIC AND GEOMORPHOLOGY	Elementary knowledge on rocks and rocks bed	Understanding the concept about: <ul style="list-style-type: none"> ● Geological map (drawing and interpretation) ● Identification characteristics of rocks and minerals.
GEOACOR02T Cartographic Techniques	Basic knowledge in map scale, unit , coordinate system.	Acquire knowledge about : <ul style="list-style-type: none"> ● Map projection. ● Identification of physical and cultural properties of a topographical map
GEOACOR02P Cartographic Techniques (lab)	Elementary knowledge of scale, unit, latitude, longitude etc.	Understanding the concept of : <ul style="list-style-type: none"> ● Drawing scales. ● Constructing projections ● Features drawing from topographical maps.
GEOACOR 3T: HUMAN GEOGRAPHY	Fundamental knowledge of nature and principals of Human Geography	Fundamental knowledge of nature and principals of Human Geography

		<p>Acquire knowledge about:</p> <ul style="list-style-type: none"> • Nature, scope and recent trained of Human Geography • Approaches to Human Geography • Race and ethnicity • Concept of space, society and cultural regions on the basis of language and religion
GEOACOR04T CARTOGRAMS AND THEMATIC MAPPING	Elementary knowledge on cartograms and thematic maps	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Learn the concept of normal and log scale, rounding and scientific notation. • Develop knowledge on maps, cartograms and thematic mapping techniques. • Understand the concept of surveying and leveling; gain knowledge on bearing. • Acquire knowledge on different surveying instruments like Prismatic Compass, Dumpy Level, Theodolite and their uses.
GEOACOR04P CARTOGRAMS AND THEMATIC MAPPING (LAB)	Acquaintance with basic ideas of cartograms and thematic maps	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Understand the preparation of various cartograms and thematic maps with the application of various techniques. • Get an idea of field experience with the surveying instruments.
GEOACOR05T CLIMATOLOGY	Elementary knowledge on earth's atmosphere, climate and weather	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Understand the nature, composition and structure of atmosphere. • Develop knowledge on different atmospheric phenomena and their distribution. • Get an idea on how atmospheric moisture

		<p>works.</p> <ul style="list-style-type: none"> • Acquire knowledge on global warming, ozone layer and atmospheric classification.
GEOACOR05P CLIMATOLOGY (LAB)	Basic idea on elements of weather and climate	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Develop knowledge on Indian Daily Weather Report and its interpretation. • Learn to prepare various climatic maps, charts and how to interpret them.
GEOACOR06T GEOGRAPHY OF INDIA	Basic concept of Geography of India	<p>Students will be build up-</p> <ul style="list-style-type: none"> ❖ The knowledge on physical division and characteristics & classification of Climate, soil and vegetation. ❖ The concept of Distribution, growth, structure of population and to learn population policy. ❖ The indigenous knowledge & culture about tribes. ❖ The developing the knowledge on agriculture and distribution of different resources. ❖ The application of the technological knowledge. ❖ The concept of regionalization of West Bengal & India also.
GEOACOR07T Statistical Methods in Geography	Elementary knowledge on statistics	<p>Develop knowledge on :</p> <ul style="list-style-type: none"> ▪ Analysing geography more scientifically and quantitatively ▪ Sources and collection of geographical data and formation of statistical table for geographical analysis. ▪ Necessity of sampling, instead of taking whole population ▪ Different statistical methods, for applying geographical studies.

<p>GEOACOR07P Statistical Methods in Geography</p>	<p>Familiarity with different statistical methods</p>	<p>Students will acquire knowledge :</p> <ul style="list-style-type: none"> • Application of various statistical methods in geography • Application of bivariate statistical data in geography
<p>GEOACOR08T Regional Planning and Development</p>	<p>Elementary knowledge on region</p>	<p>Students will understand about</p> <ul style="list-style-type: none"> • Different types of regions and principles and needs of regional planning • Concepts and parameters and variation of development • Models of eminent scholars on regional development • Causes of underdevelopment and need of balanced development.
<p>GEOACOR09T ECONOMIC GEOGRAPHY</p>	<p>Elementary knowledge on Economic Geography</p>	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Understand the approaches and different concepts of economic geography. • Develop an idea about the concept of economic activity, gain knowledge on different types of economic activities and their utilities. • Get an idea on factors affecting location of economic activities. • Perceive an idea on transportation routes and some international trade and economic blocks.
<p>GEOACOR10T Environmental Geography</p>	<p>Elementary knowledge on Earth's environment, Environmental problems.</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand the concept of environment. • Develop knowledge on different environmental problems.
<p>GEOACOR10P</p>	<p>Concept building on Environmental</p>	<p>Students will be able to-</p>

ENVIRONMENTAL GEOGRAPHY	Geography	<ul style="list-style-type: none"> ❖ Know how to prepare different questionnaire. ❖ How to prepare the environmental check-list. ❖ Increase how to interpret through national and state data.
GEOACOR11T Fieldwork and Research Methodology	Basic concept of Research and gaining knowledge about field work in depth.	<p>Students will be know-</p> <ul style="list-style-type: none"> ❖ What is research, research problem, research materials and methods ❖ How to prepare literature review & formulation of research design ❖ The techniques of writing scientific reports of research. ❖ How to maintain the ethics of fieldwork. ❖ How the theoretical knowledge is applying on field investigation. ❖ How to prepare the tabulation, explain & interpretation of field work during post-field study.
GEOACOR11P Fieldwork and Research Methodology (Lab)	Basic concept of Research and gaining knowledge about field work in depth.	<p>Students will be know-</p> <ul style="list-style-type: none"> ❖ What is research, research problem, research materials and methods ❖ How to prepare literature review & formulation of research design ❖ The techniques of writing scientific reports of research. ❖ How to maintain the ethics of fieldwork. ❖ How the theoretical knowledge is applying on field investigation. ❖ How to prepare the tabulation, explain & interpretation of field work during post-field study.
GEOACOR12T Remote Sensing and GIS	Basic concept of Remote Sensing and gaining knowledge about GIS.	<p>Students will able to-</p> <ul style="list-style-type: none"> ❖ Know the Principles of Remote Sensing and GIS. ❖ Acquire the knowledge how to prepare the false

		<p>colour composite.</p> <ul style="list-style-type: none"> ❖ Differentiate the natural and false colour composite image. ❖ Know what is the applicability GIS on practical life and as a whole. ❖ Understand how to operate the Q-GIS and preparation table and mapping. ❖ Define GNSS and know the principles of GNSS and way point collection. ❖ Determination how to collect data through GPS and use GIS for purpose of real life.
GEOACOR12P Remote Sensing and GIS	Basic concept of Remote Sensing and gaining knowledge about GIS.	<p>Students will able to-</p> <ul style="list-style-type: none"> ❖ Know the Principles of Remote Sensing and GIS. ❖ Acquire the knowledge how to prepare the false colour composite. ❖ Differentiate the natural and false colour composite image. ❖ Know what is the applicability GIS on practical life and as a whole. ❖ Understand how to operate the Q-GIS and preparation table and mapping. ❖ Define GNSS and know the principles of GNSS and way point collection. ❖ Determination how to collect data through GPS and use GIS for purpose of real life.
GEOACOR13T EVOLUTION OF GEOGRAPHICAL THOUGHT	Basic knowledge on the nature and contents of geography.	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Perceive the evolution of the philosophy of geography. • Understand the geographical thinking in

		<p>different regions of world.</p> <ul style="list-style-type: none"> • Get an idea on the basic theme, ideas, dichotomies, trends and approaches of geographical knowledge. • Critically evaluate the nature of geography as spatial science with changing space and time.
GEOACOR14T Disaster Management	Familiarity with disasters and hazards	<p>Students will understand about</p> <ul style="list-style-type: none"> • Different types disasters and hazards. • Response of the people to hazards. • Hazards of India.
GEOACOR14P Disaster Management	Fundamental Knowledge of Disasters	<p>Students will acquire knowledge on</p> <ul style="list-style-type: none"> • Nature, extent, causes and measures of prevention of non-physical disaster through micro level study • Nature, extent, causes and measures of prevention of physical disaster through micro level study
GEOADSE 01T Soil and Biogeography.	Basic knowledge on soil and Biogeography.	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Learn the concept of soil Geography. • Understand the concept of Biogeography.
DSE02T Settlement Geography	Basic knowledge on human settlement	<p>Students will achieve knowledge on</p> <ul style="list-style-type: none"> • Characteristics and morphology of rural settlement. • Rural house types and problems of rural infrastructure • Urban settlements and concepts of urban morphology.

		<ul style="list-style-type: none"> • Characteristics and hierarchies of urban settlements.
GEOADSE03T Population Geography	Increase basic and dynamic concept on Population Geography	<p>Students will be know-</p> <ul style="list-style-type: none"> ❖ The Development of Population Geography as a field of specialization. ❖ The basic concept of population distribution, density, composition and Growth. ❖ The Migration type and cause of population. ❖ What is the population policy and how to apply to their personal life and as a whole.
GEOADSE T4: HYDROLOGY AND OCEANOGRAPHY	Fundamental concept on ground water and ocean	<p>Acquire knowledge about:</p> <ul style="list-style-type: none"> • Hydrological cycle • Ground water • Ocean water properties and bottom relief features • Ocean deposits.
GEOADSE05T Social Geography	Elementary concepts social characteristics and wellbeing	<p>Students will get knowledge on :</p> <ul style="list-style-type: none"> • Sphere of social geography • Social stratification, composition and evolution of socio-cultural regions • Concepts of social wellbeing • social planning and policies
GEOADSE06T RESOURCE GEOGRAPHY	Explore the knowledge about Resource, Resource Conflict , Management & Development	<p>Students will explore-</p> <ul style="list-style-type: none"> ❖ Approaches to Resource Utilization. ❖ Significance of Resources: Backbone of Economic growth and development. ❖ The problem and conservation of natural resources.

		❖ The Basic knowledge of Resource Conflict and Management.
GEOGCOR T1: PHYSICAL GEOGRAPHY	Fundamental knowledge about Geotectonics and Geomorphology	Acquire knowledge about: <ul style="list-style-type: none"> • Concept and component of earth system • Internal earth's structure based on seismic wave • Plate movement and resultant landform • Lithological land form Granite and Limestone • Process of erosion,deposition and resultant landform(fluvial,aeolian and coastal)
GEOGCOR02T Human Geography	Basic knowledge on population, society , economy and human settlements	Students will acquire knowledge on <ul style="list-style-type: none"> • Growth and spatial distribution of population • Characteristics and composition of population • Agricultural economy • Industrial economy • Rural and urban settlements
GEOGCOR03T General Cartography	Basic knowledge in map scale, unit , coordinate system.	Acquire knowledge about: <ul style="list-style-type: none"> • Map projection. • Identification of physical and cultural properties of a topographical map. • understanding cartographic symbols: Dots, Choropleth, Isopleth and Flow Diagrams
GEOACOR04T Environmental Geography	Elementary knowledge on Earth's environment, environmental problems and policies.	Students will be able to: <ul style="list-style-type: none"> • Understand the concept of environment. • Develop knowledge on different environmental policies.
GEOGDSE 01T	Basic knowledge on soil and	Students will be able to:

Soil and Biogeography.	Biogeography.	<ul style="list-style-type: none"> • Learn the concept of soil Geography. • Understand the concept of Biogeography.
GEOGDSE 02T Regional Development	Elementary knowledge on region	<p>Students will understand about</p> <ul style="list-style-type: none"> • Concepts and parameters and variation of development • Causes of underdevelopment and need of balanced development.
GEOADSE03T Disaster Management	Fundamental Knowledge of Disasters	<p>Students will acquire knowledge on</p> <ul style="list-style-type: none"> • Nature, extent, causes and measures of prevention of non-physical disaster through micro level study • Nature, extent, causes and measures of prevention of physical disaster through micro level study
GEOGDSE04P PROJECT REPORT BASED ON FIELD WORK	Basic concept of Research and gaining knowledge about field work in depth.	<p>Students will be know-</p> <ul style="list-style-type: none"> ❖ What is research, research problem, research materials and methods ❖ How to prepare literature review & formulation of research design ❖ The techniques of writing scientific reports of research. ❖ How to maintain the ethics of fieldwork. ❖ How the theoretical knowledge is applying on field investigation. ❖ How to prepare the tabulation, explain & interpretation of field work during post-field study.
GEOSSEC01M Remote Sensing	Basic concept of Remote Sensing	<p>Students will able to-</p> <ul style="list-style-type: none"> ❖ Know the Principles of Remote Sensing and GIS. ❖ Acquire the knowledge how to prepare the false

		<p>colour composite.</p> <ul style="list-style-type: none"> ❖ Differentiate the natural and false colour composite image.
<p>GEOSSSEC02M Advanced Spatial Statistical Techniques</p>	<p>Fundamental knowledge about Statistic</p>	<p>Students will acquire knowledge (through software) on</p> <ul style="list-style-type: none"> • Different statistical methods using univariate data • Different statistical methods using bivariate data