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| --- | --- | --- | --- | --- | --- |
| **Programme Name** | **Programme Code** | **Course** **Name** | **Course Code** | **Course Outcome** | **Relevance of the Course Outcome** |
| **Local** | **Regional** | **National** | **Global** |
| **B.A. Geography** |  | **Geomorphology** | C1 | CO1 | * Creating knowledge about physical structure of earth, Identification, classification of the rock, its properties and analyse different structure of the earth and its analysis.
 | **Local** | **Regional** | **National** | **Global** |
| CO2 | * Evaluating the science behind the movement of the earth, volcanoes, earthquakes and related landforms produced by it. They also analyse these landforms formed by these.
 | **-** | **Regional** | **National** | **Global** |
| CO3 | * Analyse Davis and Penck’s model in the landform development.
 | **Local** | **Regional** | **National** | **Global** |
| CO4 | * Understand various geomorphic processes involved in landform development by different geomorphic agents.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Environmental Geography** | C2 | CO1 | * Understand the concept, component, and classification, flow of energy in the environment, concept and factors of tolerance.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Understand and analyse the concept, structure, function of ecosystem, food chain, food web, trophic level and importance of biogeochemical cycle in the ecosystem.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Remember the concept of biome, its distribution, types, characteristics and different types of pollution and its negative effect on environment.
 |  |  |  |  |
|  | CO4 | * Critically analyse the degradation of environment and gain knowledge about the role of international organisation and national organisation.
 | **Local** | **Regional** | **National** | **Global** |
|  | Climatology | C3 | CO1 | * Understand the structure, composition, temperature distribution, temperature inversion, elements of climate and critically analyse the elements of climate.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Understand and analyse the importance of pressure belts of the world and how it is affecting wind circulation of the world and how jet stream is affecting world wind pattern with its classification.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Analyse and understand the mechanism of evaporation, formation of clouds and precipitation and their relationship and classification of climate according to Thronthwaite and Koeppen using evaporation and precipitation.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Understand and analyse about various climatic disturbances, its cause and distribution.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Statistical Methods In Geography** | C4 | CO1 | * clarify the techniques to collect various kinds of data, its use and representation in graphs and diagrams. They also become familiar with the techniques to measure the qualitative and quantitative data.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Explain the concepts and techniques of sampling in data collection and its use in geographical studies.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Demonstrate methods which are used to measure dispersion in geographical studies and techniques related to hypothesis testing.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Analyse and evaluate the relationship and association between different types of data series.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Cartography** | C5 | CO1 | * Create knowledge about map, its type, characteristics, use, merits and demerits.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Explain the concept and the use of geographical coordinates and how it helps us to determine the location of a place on the earth’s surface and construction different types of scale and its use.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Analyse and application of techniques to prepare different types of map projection for different area and practice methods related to transformation area, distance and direction from globe to two dimensional surfaces.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Carry out techniques to extract different information from geological as well as topographical maps and different techniques used to determine slopes of a place from it.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Oceanography** | C6 | CO1 | * Describe about different relief features of the ocean and causes of land formation.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Describe and analyse the physical and chemical characteristics of ocean, its relationship, different water masses of world oceans and various kinds of ocean deposits.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Clarify the dynamics of ocean water like ocean currents, waves, tides and critically examine various factors responsible for it.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Understand the ocean environment mainly corals and its distribution along with different ocean resource and its zoning.
 | **Local** | **Regional** | **National** | **Global** |
|  | Human Geography | C7 | CO1 | * Analyse the dynamics of environment, approaches and the relationship between man and the environment as well as understand the concept, classification and distribution of races of the world.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Describe the concept, classification, distribution of religion and languages and its importance in geographical studies.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Clarify concepts, composition, and dynamics of population in geographical studies and transformation of societies through various stages.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Describe the concept of culture and cultural division of the world.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Economic Geography** | C8 | CO1 | * Explanation on concepts of economic geography, types of economic activity and types of agriculture and models related to it.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Describe the economic activity related to fishing, forestry as well as agricultural regions of the world.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Describe secondary economic activity mainly iron and steel industry, cotton textile industry as well as critically analyse the models related to location of manufacturing industries.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Describe the tertiary activities like road, railway, water way and airways of the world and its importance in the regional economies.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Geography of Odisha** | C9 | CO1 | * Describe the physical aspects of odisha.
 | **Local** | **Regional** | **-** | **-** |
|  | CO2 | * Summarize the dynamics of agriculture of odisha along with its problems and prospects.
 | **Local** | **Regional** | **-** | **-** |
|  | CO3 | * Describe different resources and resource based industries in odisha and its prospects.
 | **Local** | **Regional** | **-** | **-** |
|  | CO4 | * Analyse dynamics of population mainly population distribution, composition and Urbanisation processes in odisha.
 | **Local** | **Regional** | **-** | **-** |
|  | **Evolution Of Geographical Thought** | C10 | CO1 | * Describe different concepts of geography by Greeks, Roman and Indian and Arab scholars.
 | **-** | **-** | **National** | **Global** |
|  | CO2 | * Analyse concepts given by modern geographer like Alexander Von Humboldt, Carl Ritter, Ratzel, La Blache and Mackinder.
 | **-** | **Regional** | **National** | **Global** |
|  | CO3 | * Clarify different approaches to study Geography mainly Environmentalism, Possibilism and Neo-determinism as well as shift in Geographical studies.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Explain and understand recent approaches to study geography like use of quantitative techniques as well as new approaches like Behaviouralism, Radicalism and recent techniques like Remote Sensing and GIS.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Regional Planning And Development** | C11 | CO1 | * Explain the concept, type of planning region, necessity of planning and salient features of planning region and different five year plans in India and its achievement.
 | **Local** | **Regional** | **National** | **-** |
|  | CO2 | * Analyse factors responsible for regional disparity in a region and planning regions in India and its importance with prospects.
 | **Local** | **Regional** | **National** | **-** |
|  | CO3 | * Discuss and critical analysis of different models of regional planning to remove regional disparity in a region.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Discuss various Policies and Programmes for rural and urban development in India and its achievement along with the concept of human development index in planning and development.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Remote Sensing And Gis** | C12 | CO1 | * Clarify the dynamics of Remote Sensing, its advantage and disadvantage, properties, process, types and models related to it.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Understand the principles, geometry of aerial photography as well as analyse different interpretation keys used to understand the photographs.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Analyse different image processing techniques to extract information form images.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Understand concepts, components, types of data in GIS and some fundamental GIS operations as well as elements, functions and uses of GPS in geographical studies.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Geography of India** | C13 | CO1 | * Describe physical aspects of India.
 | **Local** | **Regional** | **National** | **-** |
|  | CO2 | * Understand the drainage pattern and system of India as well as dynamics of Indian climate.
 | **Local** | **Regional** | **National** | **-** |
|  | CO3 | * Analyse various kinds of industries in India and its concentration as well as importance of these industries on Indian economy.
 | **Local** | **Regional** | **National** | **-** |
|  | CO4 | * Understand and analyse the systems and patterns, and various types of agriculture in India along with agricultural regions of India.
 | **Local** | **Regional** | **National** | - |
|  | **Disaster Management** | C14 | CO1 | * Discuss about basic concepts related to hazard and disaster, Classification of disasters and various elements disaster management cycle.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Understand the disaster management cycles as well as acquire knowledge about various roles played by different organisations to manage disaster.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Classify natural disasters, its impact on both environment and human beings and its management according to disaster management cycle.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Analyse the impact of natural disaster and its management according to disaster management cycle.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Population Geography** | DSE 01 | CO1 | * Categorize the methods of population data collection in India, problems of population and various issues related to Indian population.
 | **Local** | **Regional** | **National** | **-** |
|  | CO2 | * Identify the factors responsible for growth and distribution of population in India and critical analysis of various theories related to population growth and transformation of society form one stage to another.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Apply the techniques to study population dynamics of world and India.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Judge various models in Population Geography.
 | **Local** | **Regional** | **National** | **Global** |
|  | **Resource & Transport Geography** | DSE 02 | CO1 | * Describe the concept of resource, classification and understand the models related to resource.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO2 | * Understand the distribution, utilisation of various mineral based resources.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO3 | * Describe the distribution, utilisation of various energy based resources.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Understand the basic concepts about transport and its importance in Indian economy as well as critical examination of various models formulated by different geographers.
 | **Local** | **Regional** | **National** | **-** |
|  | **Settlement Geography** | DSE 03 | CO1 | * Understand and classify the settlement and its pattern in the world and India.
 | **Local** | **Regional** | **National** | **-** |
|  | CO2 | * Examine the techniques to classify the urban settlement in Geography.
 | **Local** | **Regional** | **National** | **-** |
|  | CO3 | * Evaluating the urban morphology and various models propounded by various Geographers from time to time.
 | **Local** | **Regional** | **National** | **Global** |
|  | CO4 | * Translate the Urbanisation processes, its pattern and trends, problems and various case studies of urban areas of India.
 | **Local** | **Regional** | **National** | **-** |
|  | **Dissertation & Project Work** | DSE 04 |  | * To make students able to prepare project reports on various topics related to Geography using their logical thinking from various papers and apply different techniques to identify the problems, the pattern of problems and solution to that problems,.
 | **Local** | **Regional** | **-** | **-** |