GEOGRAPHY

Rationale:

At the Pre-University level, Geography like other subjects of Social Sciences has a distinct entity. In this level it develops a comprehensive view to understand the different theories and concepts. Geography draws its content both from Natural Sciences as well as Social Sciences. The subject deals with nature, physical and cultural environment, man and his activities and also inter-relationship between environment and man.

First PUC Geography content deals with Fundamentals of Physical Geography and Physical Environment of India. These two help the students to understand various physical aspects of the Earth, including the physical features of our country. In addition to this, the learners prepare themselves to show the physical aspects of the Earth and India through diagrams and maps. This study help the receivers to understand the natural features, resources, regional and local physical aspects which can be used for various socio-economic and developmental activities.

Objectives:

The major objectives of the I PUC Geography course are to:

1. Understand Geography as a discipline and how it is integrating with other disciplines.
2. Understand the shape, size, movements and other physical aspects of the Earth with related features.
3. Understand the Earth as a planet and various components of it including occurrence and distribution of Earthquakes and Volcanoes.
4. Understand various landforms, rocks and minerals which are helpful to different human activities.
5. Know the composition, structure and layers of atmosphere. Understand how the different atmospheric elements help the living organisms on the Earth.

6. Understand various water bodies of the Earth and their role in change of climate.

7. Understand life layer of the Earth with various Biomes and Biodiversity.

8. Understand India as an important country in the world with its location, extent, physical features and the river system.

9. Know the climate, mechanism of Monsoon, formation of soil, distribution of forest and how these are interrelated with each other.

10. Understand the different biosphere reserves and methods of conservation of forest and animal resources.

11. Understand how nature is furious by causing different types of disasters. This helps to take various precautionary measures to save life and property.

12. Understand how to draw the maps and identification of latitudes and longitudes of the given places. Develop the skill of drawing maps and diagrams to show various physical aspects.

13. Understand the nature and features of the Earth with focus on physical aspects of India. Helps to prepare various plans and programmes on Save Earth mission.

I PUC GEOGRAPHY

Fundamentals of Physical Geography and Physical Environment of India

SYLLABUS

Part-A **Fundamentals of Physical Geography**

Sl. No.	Objectives	Chapter	Sub-unit	No. Of hours	Learning outcome	Evaluation	Suggested Activities
1	Understand the meaning, scope and how Geography is related with other natural and social sciences including its various branches	**Chapter -1 Geography as a discipline**	1.1 Meaning and scope of Geography 1.2 Geography as an integrating discipline 1.3 Branches of Geography - importance of Physical Geography	5 hrs	Understand the meaning and scope of Geography Learn how Geography is integrated with other natural and social sciences Understand branches of Geography with their importance. Know the importance of study of Physical Geography	Oral and written tests. Group discussions, Seminars	Prepare flow chart to show Geography and their branches. Assignment work on branches of Geography - Physical Geography

2	Understand the Earth as a planet, shape and its size, important movements like rotation and revolution with their effects	**Chapter-2 The Earth**	2.1 Earth as a planet 2.2 Shape and size of the Earth 2.3 Movements of the Earth- Rotation and Revolution	10 hrs	Know the Earth as an important planet in the Solar System Understand the Geoid shape, size, diameter, land and water bodies of the Earth Know the important movements of the Earth- rotation and revolution: period, importance and effects- day and nights, cycle of seasons and their influence on life layer	Oral and written tests, seminar, diagrams and maps used to show the Earth and its features	Suggested to use colour papers, thermocol and other available materials to show the Earth s size and shape. Prepare table to show the effects of rotation and revolution. Collect photos and pictures to show various effects of movements of the Earth.
3	Understand the Earth s interior, layers, formation of Earthquake and Volcanoes with their distribution. Understand rocks and Minerals- types and their uses	**Chapter-3 Interior of the Earth**	3.1 Structure and composition of the Earth 3.2 Earthquakes	14 hrs	Learn how the Earth s interior is formed, composition and layers Understand the causes, consequences and distribution of Earthquakes	Oral and written tests, seminars, diagrams and charts of Earth s interior Maps to show distribution of Earthquakes and Volcanoes	Thermocol model to show interior of the Earth. Collection of photographs to show recent earthquake and volcanic disasters regions Assignment and project work on Earthquake and

			3.3 Volcanoes 3.4 Rocks and minerals		Learn how Volcanoes occur, types, materials and distribution of volcanoes Understand the formation of rocks and minerals with their types and uses	Identification of rocks and minerals	Volcanoes Collection of rock samples Prepare flow chart to show the types of rocks and minerals.
4	Understand the internal and external forces of the Earth, weathering processes, denudation work by river	**Chapter -4 Landforms**	4.1 Geomorphic processes 4.2 Weathering 4.3 Denudational agents : work of River	12 hrs	Learn exogenic and endogenic forces and their role in changing the face of the Earth Understand various weathering processes and their importance Know the denudation activity on the Earth, work of River and its major landforms.	Oral and written tests, preparation of charts and drawings, seminars	Collection of photographs. Preparation of models by using available materials to show various weathering processes. Collection of pictures, photos, diagrams and Satellite images.
5	Understand the composition and layers of atmosphere-temperature, pressure, winds, rainfall and their features.	**Chapter-5 Atmosphere**	5.1 Composition and structure of atmosphere 5.2 Temperature	16 hrs	Know the composition and layers of the atmosphere. Know the vertical and horizontal distribution of	Oral and written tests, group discussion and individual seminars	Prepare models to show the layers of the atmosphere. Draw diagrams to show atmosphere pressure belts and winds.

	Understand the importance and features of Weather and Climate.		5.3 Atmospheric pressure 5.4 Winds 5.5 Rainfall 5.6 Weather and Climate		temperature, factors affecting the temperature. Understand the atmospheric pressure and its distribution. Know the types of winds, their characteristic features. Know the types of rainfall. Understand the difference between Weather and Climate.		Prepare model to show types of rainfall Prepare flow chart of wind system. Draw chart to show sea, land, valley and mountain breezes.
6	Understand the relief features of the Ocean floor, distribution of temperature and salinity. Understand the movements of Ocean water-Currents and Tides. Understand the methods of conservation of Ocean.	**Chapter-6 Hydrosphere**	6.1 Topography of Ocean floor 6.2 Temperature and salinity 6.3 Movements of the Ocean water 6.4 Tides 6.5 Conservation of Oceans	10 hrs	Know the relief of the Ocean floor with important topographical features. Know the temperature and salinity of the Ocean water. Understand the movements of Ocean water-Sea waves, Currents and Tides.	Oral and written tests, seminars Diagrams and Maps used to show the important Ocean currents and types of Tides.	Draw diagram to show Ocean bottom relief. Prepare model or chart to show Ocean currents. Prepare thermocol or any other materials model to show the types of tides. Collect photographs and articles about conservation of Oceans.

					Learn the causes and consequences of tides. Know the measures to conserve Oceans.		Propose measures for the conservation of Oceans.
7	Understand the life layer of the Earth, environment, ecology, biomes and biodiversity.	**Chapter-7 Biosphere**	7.1 Environment 7.2 Ecology 7.3 Biomes 7.4 Biodiversity	4 hrs	Know the life layer of the Earth with its Physical and cultural environment. Understand ecology, ecosystem, ecological balance and imbalance. Learn various group of life forms and distribution of forest biomes Know the importance of biodiversity, types, bio-hot spots, gene pool and gene centres. Understand how to save Mother Planet .	Oral and written tests, seminars, articles on environmental issues, photographs and diagrams to show environmental problems. Flow chart of biodiversity and biome regions.	Prepare articles on environmental issues. Prepare models of ecological imbalance, maps and diagrams to show biomes and biodiversity regions. Group discussion, drama and plays on how to save Mother Earth .

Part-B **Physical Environment of India**

8	Understand the India s location and its environs	**Chapter-8 India**	8.1 Location and its environs	3 hrs	Know the location, extent, size, land frontiers, neighbouring counties and water bodies of India	Oral and written tests, maps to show India s location in Asia and International boundaries	Prepare maps to show India in Asia, land and water frontiers. Prepare model of India to show its location and land frontiers.
9	Understand the physical divisions of India and their significance. Understand the major river systems, tributaries, difference between north and south Indian rivers, river disputes, inter-linking of rivers	**Chapter-9 Physiography**	9.1 Physical divisions 9.2 River system	14 hrs	Know the physical divisions of India their location, extent and significance. Understand the river system of the country, difference between north and south Indian rivers, river water disputes, remedies like inter-linking of rivers.	Oral and written tests, Maps to show the different physical divisions of India and river system. Table to show difference between North and South Indian rivers.	Prepare model of physical divisions of India. Draw maps to show various physical features of the country. Prepare model of rivers of India. Prepare flow chart about rivers and its tributaries. Prepare table to show difference between north Indian and south Indian rivers and east and west flowing rivers of India.
10	Understand the climate of India with various seasons and their importance. Understand the types of	**Chapter-10 Climate, Soil and Forest**	10.1 Climate : Important seasons	14 hrs	Learn the climate of India- factors influencing on climate, important seasons and their	Oral and written tests, maps and diagrams to show climate,	Draw maps to show south west and north east monsoons. Prepare model to show different types of soil.

	soil, soil erosion and methods of soil conservation. Understand the major types of the forests, uses, conservation and important biosphere reserves		10.2 Soil: Types, soil erosion and conservation 10.3 Forest: Major types, importance, conservation and Biosphere reserves		features. Know the soil, types, factors affecting soil erosion and measures followed in the soil conservation. Learn the different types of forests, importance, methods of conservation and important Biosphere reserves of India.	soil and forest types and distribution, seminar	Collect soil samples. Prepare charts to show soil erosion and methods of soil conservation. Collect photographs of forests. Prepare model to show types of forest. List out the uses of forest. Mark the important Biosphere reserves on the outline map of India. Conduct interaction and debate classes on conservation of forest.
11	Understand the various natural hazards and disasters in the country. Understand the causes and consequences of natural disasters.	**Chapter-11 Natural hazards and disasters**	11.1 Types, Causes, distribution and consequences	6 hrs	Learn the different types of disasters, causes, distribution and consequences. Understand the areas of frequent natural disasters.	Oral and written tests Maps and diagrams used to highlight the disaster prone regions	Draw maps to show various natural disasters and disaster prone areas. Collect photographs, pictures and articles of recent natural disasters and their regions.

Part-C **Cartography**

12	Understand the preparation of map, uses, reading of map, representation of physical aspects by using diagrams, drawing of outline map of India and showing physical aspects on the map.	**Chapter -12 Cartography**	12.1 Maps: Meaning, essentials of a map, types and uses 12.2 Map reading: Identification of places, latitudes and longitudes - Karnataka 12.3 Representation of physical aspects through diagrams 12.4 Map drawing: Drawing of outline map of India and showing physical aspects	12 hrs	Know the preparation of maps, essentials, types and their uses. Know how to identify the places, latitudes and longitudes of Karnataka. Understand to draw different diagrams to show physical aspects Know to draw the outline map of India and learn to mark and show the physical aspects in the outline map	Oral and written tests, ask the students to draw latitudes, longitudes, scales. Identification of places, latitudes and longitudes on the given map. Diagrams to show physical aspects. Outline map of India and marking of physical aspects on the map.	Practise to draw different maps, write scales and symbols. Prepare charts to show types of maps. List out the uses of maps. Play games with the help of Atlas - identification of places, latitudes and longitudes. Practise to draw diagrams of various physical aspects. Practise to draw the outline map of India and show the physical aspects.