

Geography

DEGREE STANDARD

SYLLABUS

GEOGRAPHY
DEGREE STANDARD Code: 057

UNIT I

GEOMORPHOLOGY:-

Major Relief features - Mountains - Plateaux - Plains - Geomorphic Processes - Diastrophism - Fold - Fault - Earthquake - Volcanoes - Continental Drift - Plate Tectonics - Rocks - Rock types - Weathering - Soils types - Soil profile - work of running water - Cycle concepts (Davis and Penk) work of Glaciers - Winds - Waves and Under ground water.

UNIT II

CLIMATOLOGY:-

Structure and Composition of atmosphere - Insolation - Heat Balance - Factors affecting the horizontal and vertical distribution of temperature - Major Pressure belts of the world - winds (Planetary and Local winds) - Humidity - Forms of Condensation - Clouds - Rainfall types - Airmasses - Fronts - Cyclones - Climatic classification of Koeppen and Thornthwaite.

UNIT III

OCEANOGRAPHY:-

Morphology of Ocean floor - Bottom Topography of Atlantic - Pacific and Indian Oceans - Distribution of temperature - Salinity of Oceans - Tides - Coral reefs - Deposite of Ocean Floors - Resources of Ocean.

UNIT IV

HUMAN GEOGRAPHY:-

Man and his Environment - Human Adaptations in Equatorial regions - Mediterranean Regions - Grasslands - Determinism and Possiblism. World Population:- Growth - Distribution Pattern - Papulation problems. Migration:- Types - Causes and Consequences Settlements:- Rural settlements - types - urban settlements - site and situation.

Functional Classification of Towns - World Urbanization

UNIT V

ENVIRONMENTAL STUDIES:-

Concept dof Eco-system - Eco-Crisis - Climatic conditions - Adaptation of animals and plants in different climatic conditions - Balance of Eco-System - Need for conservation of Eco-system - Natural Hazards - Flood - Drought - Forest Fire - Earthquake and volcanoes.

UNIT VI

GEOGRAPHY OF RESOURCES:-

Resources - Types - Agriculture - Types of Agriculture(Intensive and Extensive) Major Crops: Rice, Wheat - Coton - Tea - Coffee - Sugarcane. Resources:- Minerals, Iron Ore - Bauzite - Manganese and Mica.Power resources :- Coal - Petroleum - Hydro Power - Nuclear Power, Forest Resources:- Types - Forest based industries - fishery Resources, Major Fishing grounds of the world. Major Industries:- Iron and Steel - Textile(Cotton and Wollen) - ship building - Automobile - Sugar industry. Transportation:- Roadways - Railways - Waterways (Inland and Major Ocean routes) - Airways. Trade:- International trade - world trade pattern.

UNIT VII

GEOGRAPHY OF REGIONAL CONCEPT:-

Definition - Classification - Concept of Regions - Functional and Formal regions - Agricultural Regions

Industrial Regions and Cultural Regions of the world - Regional Imbalance - Need for regional planning.

UNIT VIII

CARTOGRAPHY:-

Sources of Geographical data - Primary and secondary sources - Maps - types of maps - properties and uses of the a) Mercator b) Gnomonic c) Cylindrical and d) International Projections - Map design - Map compilation and Generalisation - Computer applications in cartography.

UNIT IX

GEOGRAPHY OF INDIA:-

Location - Natural Devisions - Climate - Climatic Divisions - Forest types - Agriculture: Problems and prospects of Indian Agriculture - Distribution and Cultivation of a)Wheat b) Rice c) Cotton d)Sugarcand e) Coffee and f)Tea.

Minerals:- Iron ore - Bauxite - Mangancese - Mica and Copper.

Industries :- Iron and Steel - cotton textile - Sugar - Chemical - Engineering Industries.

Transport:- National Highways - Railways - Inland Waterways - Airways.

Ports:- Major ports of India.

Population:- Distribution - density Growth - Problems of Over population - Ntional population - policy.

Trade:- Direction - Volume - Palttern of foregn trade of India.

UNIT X

GEOGRAPHY OF TAMIL NADU:-

Location - Relief - Climate - Soil - Vegetation - Fisheries (Inland and Marine) Agriculture - Impact of Green Revolution - Distribuition and Cultivation of major crops - Mineral wealth of Tamil Nadu -

Industries - Industrial development in Tamil Nadu - Population: Growth and

Distribution.Urbanization:- Trend - Million Cities of Tamil nadu.