

BACHELOR OF ARTS-GEOGRAPHY

Mode	Dual Mode University System
Duration	3 Years
Pattern of Examination	Annually
Eligibility	10+2 in relevant subject

SCHEME OF EXAMINATION

Subject Code	Title
1 st Year	
BGEO -101	Lithospheric Hazards
BGEO -102	Physical Geography
BGEO -103	Economic Activities, Population and Development
BGEO -104	Physical Climatology and Oceanography
BGEO -105	Practical
2 nd Year	
BGEO -201	Land Forms
BGEO -202	Human Geography
BGEO -203	Origin & Structure of the Earth
BGEO -204	Atmospheric Hazards
BGEO -205	Practical
3 rd Year	
BGEO -301	Principles of Geo-informatics
BGEO -302	Methodology of Geographical Studies
BGEO -303	Natural Hazards and Disaster Management
BGEO -304	Geography of Tourism
BGEO -305	Practical

BGEO-101 LITHOSPHERIC HAZARDS

UNIT-I

Introduction to Lithosphere: origin, structure, processes, and formation and nature, characteristics and extent; Distinction between Hazard and Disaster

UNIT-II

Lithosphere hazards: Introduction, types, characteristics, intensity and impact; Landslides, avalanches, causes, distribution and impact

UNIT-III

Earthquakes, Volcanoes and Tsunamis – types, causes, distribution and environmental and socio-economic impacts

UNIT-IV

Historical survey of lithosphere hazards of the world, basics of Disaster Management

REFERENCE BOOKS:

1. Shah, M.R.: Bhautik Bhugol ,Uni. Granth Nirman Board
2. Shukla, Rajesh Rashmi(2009): Bhautik Bhugol (Hindi) Arjun publication house
Ram Suresh and Yadav P.G. (1998): Bhautik Bhugol , Uni.Granth Nirman Board

BGEO-102 PHYSICAL GEOGRAPHY

UNIT- I

Introduction to Earth as a member of the Solar System Internal structure of the Earth
Earth's crust, Distribution of land and water bodies

UNIT-II

Rocks- their types and modes of occurrence, Earth movements, Folds, Faults and associated landforms

UNIT-III

Earthquakes and volcanoes, causes, effects and world distribution

UNIT-IV

Denudation, Weathering - types ,features, Erosion, work of Rivers, Glaciers, Wind, Sea Waves, Groundwater and Springs and Artesian Wells.

REFERENCE BOOKS:

1. Lake, P(1985) : Physical Geography (Indian edition) MacMillan & Co. , Calcutta, Mumbai, London.
2. Lal, D.S. :Physical Geography , Sharda Pustak Bhavan , Allahabad Monkhouse
F.J. : Principles of Physical Geography

BGEO-103 ECONOMIC ACTIVITIES, POPULATION AND DEVELOPMENT

UNIT-I

Agriculture: Crop regions – food crop, cash crop, fruit crop, agricultural development, problems and prospects, livestock rearing its contribution to economic development

UNIT-II

Energy & Industry: power plants: Hydro, thermal, atomic units, Non – Conventional energy sources, wind, solar and bio-gas, Industrial regions and development, Cement, Petro-chemicals, textiles, edible oil, dairy and automobile industries

UNIT-III

Transport & Trade -Transport network-pattern and density-road, rail, airways and ports, Trade - local, regional, national and international.

UNIT-IV

Population – distribution, density, Demographic characteristics, urban, rural and tribal population, their distribution and problems, Urbanization, industrialization and development patterns in Gujarat, Contemporary issues and development Trends.

REFERENCE BOOKS:

1. Dikshit, K.R. : Geography of Gujarat, National Book Trust, New Delhi
2. Dave, Manjula : Gujaratni Pradeshik Ane Arthik Bhugol, University Granth Nirman Board, Ahmedabad
3. Kothari, Nitin : Aadhunik Bharatni Bhugol Parshwa Publication, Ahmedabad
4. Census of India : Gujarat Nakshama, University Granth Nirman Board, Ahmedabad

BGEO-104 PHYSICAL CLIMATOLOGY AND OCEANOGRAPHY

UNIT- I

Atmosphere: Composition and structure, elements and factors of climate, factors influencing insolation, distribution temperature, pressure, types of winds

UNIT-II

Elements of climate: temperature humidity, types of clouds, precipitation – forms, types and distribution of rainfall

UNIT-III

Ocean relief, distribution of temperature, salinity and density of ocean water

UNIT-IV

Circulation of oceanic waters, waves, tides and major currents, its impact on human life

REFERENCE BOOKS:

1. Garrison, T.(1998) : Oceanography, Wadsworth.com USA.
2. Grald, S (1980) : Genral Oceanography –An Introduction, John Wiley & sons, New York
3. Stringer, E.T.(1982): Foundation of Climatology , Surjeet Publication, Delhi
4. Mather, J.R. (1974) : Climetology, MacGraw Hill, New York.
5. Trewartha,G.T (1980) An Introduction to Climate, International Students Edition MacGraw Hill, New York
6. Singh, Savindra(2007) : Climatology , Prayag Pustak Bhavan , Allahabad
7. Lake, P(1985) : Physical Geography (Indian edition) MacMillan & co. Calcutta, Mumbai,Landon.
8. Lal, D.S.: Physical Geography , Sharda Pustak Bhavan , Allahabad Monkhouse F.J. : Principles of Physical geography.

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BGEO-201 LAND FORMS

UNIT-I

Exogenic processes – Weathering - Denudation & Erosion - Types of Weathering– Controlling factors- Mechanical Weathering -Block disintegration , Spherical weathering , Granular weathering & Exfoliation- Biological Weathering - Plant, Animal & Biochemical Weathering- Chemical weathering – Oxidation, Carbonation, Hydration & Solution Soils – Structure, Texture & Soil profile – Factors of soil formation-

UNIT-II

Characteristics - Soil classification – Major soil types of the world Gradation – Degradation and Aggradations – Agents of Erosion

UNIT-III

Streams- Antecedent & Superimposed streams – Types of Drainage Patterns – Dendrite, Trellis, Rectangular, Radial, & Centripetal Patterns.-Consequent, Insequent, subsequent, obsequent & Resequent streams -Normal cycle of erosion

UNIT-IV

Erosional & Depositional landforms produced by River, Wind, Glacier– Underground water & sea waves. Types of coastlines- Emerged Coastline, Submerged coastline, Dalmatian coast, RIA Coast, Fiord Coast.

REFERENCE BOOKS:

1. Arthur N Strahler: Physical Geography
2. F J Monkhouse: Physical Geography
3. H Jeffrey: The Earth, its origin & physical composition
4. Lake P: Physical Geography
5. Woolridge & RS Morgan: Physical Basis of Geography

BGEO-202 HUMAN GEOGRAPHY

UNIT-I

Scope and content of Human Geography – Concepts – Determinism, Possibilism and Neo determinism Makers of Human Geography-Alexander Von Humboldt, Carl Ritter, Friedrich Ratzel, Vidal de- La Blucher, Jean Brunches, Ellen C Simple, Isiah Bowman, Ellsworth Huntington, Griffith Taylor, Half ford John Mackinder, A.J.Herbertson & Peter Hogget Mode of life – Primitive culture – Hunting and food gathering – Pastoral

UNIT-II

Nomadic – Subsistence farming - Industrial revolution - Technological era – World cultural regions -Major Races, Languages & religion Human Adaptation to the environment:

UNIT-III

- i. cold region—Eskimo;
- ii. Hot region - Bushman
- iii. Plateau— Masai
- iv. Mountain —nomads

Distribution of population; world distribution pattern - factors influencing spatial distribution - physical, economic and social Concepts of over population, under population and optimum

UNIT-IV

Population Zero population growth: Demographic Transition model Migration—Types-internal and international. Population theory: Malthusian theory Population regions of India - Problem of over population of India and remedial measures. Population policy of India Settlements – Rural – Types – Urban – Characteristics of urban Centers - Urban morphology - Urban problems

REFERENCE BOOKS:

1. Hagget P: Geography –A Modern Synthesis
2. Perpillion: A.V. Human Geography
3. Fellman J: Human Geography

BGEO-203 ORIGIN & STRUCTURE OF THE EARTH

UNIT-I

Universe and Solar System- Major planets-Earth in Solar system – Origin of earth - theories-Nebular ,Planetesimal, Binary star,& Tidal Theory.

UNIT-II

Shape and Size of the earth – Latitude – Longitude - Movements – Rotation and Revolution – Time zones- Inter national date line – Seasons

UNIT-III

Distribution of land and water – Origin of continents and oceans – Wegner’s Drift theory -Evidences & criticisms -Sea floor spreading – Plate tectonics- Types of plates – Major & minor plates – Apostasy -Views of Airy & Pratt

UNIT-IV

Geomorphic processes – Androgenic – Fold – Fault – Volcanism – Earthquakes – Interior of the earth – Materials of the earth crust

UNIT-V

Rocks – Types – Igneous, Sedimentary and Metamorphic rocks

REFERENCE BOOKS:

1. Arthur N Strahler: Physical Geography
2. Woolridge & RS Morgan: Physical Basis of Geography
3. H Jeffrey: The Earth, its origin & physical composition
4. F J Monkhouse: Physical Geography
5. Lake P: Physical Geography
6. Morris Davis: Physical Geography Elements of Geography

BGEO-204 ATMOSPHERIC HAZARDS

UNIT-I

Meaning, Scope and Significance of Atmospheric hazards, types of atmospheric Hazards

UNIT-II

Atmospheric Hazards: introduction, types, characteristics, intensity and impact- Tropical Cyclones, Temperate cyclones and Tornado -origin, development and their distribution And impact

UNIT-III

Thunderstorms, Lightening, Cold waves and Hot waves- their origin, characteristics, Distribution and impact

UNIT-IV

Flood, Drought and Famine as extremes of regional atmospheric condition, their causes, Consequences distribution and impact on society and economy

REFERENCE BOOKS:

1. Berry, R.G.and R.J.Chorly,(1976) Atmosphere, Weather and Climate Methuen, London
2. Lal, D.S. (2009) : Climatology, Sharda Pustak Bhavan Allahbad
3. Singh, Savindra (2005) : Climatology ,Prayag Pustak Bhavan Allahbad
4. Trewartha, G.T. : An Introduction to Climate MacGraw Hill, New York

BGEO-205 PRACTICAL

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BGEO-301 PRINCIPLES OF GEO-INFORMATICS

UNIT-I

Personal computers-Peripherals, networks-Communication-Mobile technology-operating systems- common software

UNIT-II

Data, information and knowledge- internet- Access to internet- dialup, DSL, cable, ISDN, WIFI –internet as reference source-Intellectual property right-information technology in education-INFLIBNET, NICNET & BRNET.

UNIT-III

Geo-informatics – components – Remote sensing, GPS & GIS – types – Principles – Electromagnetic radiation – Interaction of EMR with soil, vegetation and water – Platforms – sensors – resolutions

UNIT-IV

Remote Sensing Programmers – LANDSAT – SPOT – Indian Remote Sensing Satellites – Remote Sensing Products – Applications

UNIT-V

Global Positioning System – Segments – Principles – Applications

UNIT-VI

GIS – Definition – components Data models: Raster and Vector data models – Data Input – Data analysis: Measurements – Buffering – Overlay analysis – Surface analysis – Data out applications

REFERENCE BOOKS:

1. Heywood - An introduction to GIS
2. Chang K - An Introduction to GIS
3. Borough P A - Principles of GIS for Land Resource Assessment

BGEO-302 METHODOLOGY OF GEOGRAPHICAL STUDIES

UNIT-I

Types of Knowledge: Practical, Theoretical, and Scientific knowledge. Information what is Science, What is not science; Laws of science. Basis for scientific law and factual truth
Geography as a Science – Approaches Four traditions – Earth Science – Man land – Spatial – Area studies

UNIT-II

Map as a tool – Mapping techniques – Field work – Local Geography

UNIT-III

Data collection – Need – Types of data – Primary – Methods of collection - Secondary data – Published and unpublished sources –problems

UNIT-IV

Data analysis – Tabulation – Representation – Diagrams – Thematic maps – Interpretation – Testing – Report writing – Reference –Bibliography

REFERENCE BOOKS:

1. McCullagh - Science in Geography Series 1-4
2. P. Haggett - Geography – A Modern Synthesis
3. P. Haggett Ackerman - Geography as a fundamental research

BGEO-303 NATURAL HAZARDS AND DISASTER MANAGEMENT

UNIT-I

Natural hazards – Definition – Classification – Impact on the environment and society

UNIT-II

Geo-tectonic hazards – earthquakes – Volcanoes – Landslides – Distribution

UNIT-III

Geo-hydrological hazards Floods - Droughts – Cyclones – World Distribution. Prone areas in India. & Kerala – Biological hazards – types and distribution

UNIT-IV

Disaster Management: Structural and non-structural measures – Role of Government and voluntary organizations

REFERENCE BOOKS:

1. Majid Hussain - Geographical hazards
2. Arvind Kumar - Oceanic Disaster
3. R D Gupta - Environmental pollution, hazards and control

BGEO-304 GEOGRAPHY OF TOURISM

UNIT-I

Concept of Leisure, Travel & Tourism- Travel in Ancient, Medieval & Modern Period

UNIT-II

Elements of Tourism- Tourism Attraction –Classification – Accessibility-Amenities- Determinants of Tourism

UNIT-III

Transport & Tourism – Tourism Restrictions –Passport, Visa, Credit card& Foreign exchange- Tourism & Environment

UNIT-IV

Tourism planning- Travel agency-Concept of Package Tour Publicity.

UNIT-V

Tourism organizations-WTO, ITDC, KTDC- Functions
Tourism in Kerala- Status & Pattern

REFERENCE BOOKS

1. Alan A Lew - A Companion to Tourism
2. Clare A Gunn - Tourism Planning
3. Ramjet Taneja - Travel Geography
4. Sashi Prabha Sharma - Tourism & Environment
5. Krishna K Karma - Basics of Tourism

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