

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY

Syllabus for F.Y.B.A. Geography  
Semester – I

Core 101/ Elective-10 : Physical Geography : Lithosphere

- Unit- I : Introduction to Earth as a member of the Solar System . Internal structure of the Earth, Earth's crust, Distribution of land and waterbodies.
- 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.

Suggested Readings :

- 1 Lake, P(1985) : Physical Geography (Indian edition)  
MacMillan & Co. , Calcutta, Mumbai, London.
- 2 Lal, D.S. :Physical Geography , Sharda Pustak Bhavan , Allahabad
- 3 Monkhouse F.J. : Principles of Physical Geography
- 4 Strahler and Strahler : Modren Physical Geography, John Willey & Sons, Canada
- 5 Singh, Savinder (1997) : Physical Geography, Prayag Pustak Mahal, Allahbad
- 6 Shah, M.R. Bhautik Bhugol, Uni.Granth Nirman Board
- 7 Shah, M.R. Bhuruprachana Shastra Uni.Granth Nirman Board
- 8 Shah, M.R. Bhutakshan Uni.Granth Nirman Board

Core-102 / Elective-10 : Geography of Gujarat- I  
( Physical & Resources )  
( First Subsidiary )

- Unit-I : Location and physiographic divisions: Location, area, neighbouring States, Country, Major physiographic divisions: the Gujarat plains, the Saurashtra plateau, Katchchh the Coastal low land, the Eastern hilly area, Katchchh geological base.
- Unit-II : Drainage pattern: Major rivers and other water bodies, Climate and natural vegetation: monsoon phenomena over Gujarat, seasons, factor's affecting climate  
Natural vegetation – Types, distribution
- Unit-III : Rocks, minerals and groundwater: types and distribution of rocks, coal, oil & natural gas resources – nonmetallic and non-fuel resources – Limestone, Fluorspar, Metallic resources
- Unit-IV : Land - soil – water and forest resources – nature, characteristics, types and distribution.

Suggested Readings :

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
5. Gujarat Vishwakosh Trust : Gujarat (in Gujarati)  
Gujarat Vishwakosh Trust , Ahmedabad
6. Census of India : Gujarat Part- II – A&B General census table.
7. Bureau of Economics and Statistics(1965) : Handbook of Basic Statistics, Government of Gujarat
8. Directorate of Information: Government of Gujarat
9. Directorate of Agriculture: Ahmedabad Statistics of Principal Crops in Gujarat state

Elective-10 : Lithospheric Hazards  
( Second Subsidiary )

- Unit-I : Introduction to Lithosphere : origin, structure, processes, and formation and nature, characteristics and extent; Distinction between Hazard and Disaster
- Unit-II : Lithospheric 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 lithospheric hazards of the world, basics of Disaster Management

Suggested Readings :

1. Shah, M.R.: Bhautik Bhugol ,Uni. Granth Nirman Board
2. Shukla, Rajesh Rashmi(2009): Bhautik Bhugol (Hindi)  
Arjun publication house
3. Ram Suresh and Yadav P.G. (1998): Bhautik Bhugol ,  
Uni.Granth Nirman Board
4. Chopra, Girish(2006): Physical Geography Commonwealth  
Publication
5. Jamwal, Anil K. (2008): Elements of Physical Geography,  
Gnanda Prakashan
6. Jamwal, Anil K.and Salpekar Aradhana(2010): Management of Major  
Disaster, Gnanda Prakashan

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Syllabus for F.Y.B.A. Geography  
Semester - II

Core 111 / Elective-11 : 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.

Suggested Readings:

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
9. Monkhouse F.J. : Principles of Physical geography.
10. Strahler and Strahler : Modren Physical Geography, John Wiley & sons, Canada.
11. Singh, Savinder (1997) : Physical Geography, Prayag Pustak Mahal, Allahbad
12. Shah, M.R. : Bhautik Bhugol, Uni.Granth Nirman Board.
13. Shah, M.R. : Bhuruprachana Shastra Uni.Granth Nirman Board.
14. Shah, M.R.: Bhutakshan Uni.Granth Nirman Board.

Core-112/ Elective-11 : Geography of Gujarat - II  
( Economic activities, population and development )  
( First Subsidiary )

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 : Hydel, 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.

Suggested Readings :

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
5. Gujarat Vishwakosh Trust : Gujarat (in Gujarati)
6. Census of India: Gujarat part- II – A&B General Census Table.
7. Bureau of Economics and Statistics(1965) : Handbook of Basic Statistics, Government of Gujarat
8. Directorate of information: Government of Gujarat, Ahmedabad , Gujarat
9. Directorate of Agriculture: Ahmedabad Statistics of Principal Crops in Gujarat State

Elective -11 : Atmospheric Hazards  
( Second Subsidiary )

- 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

Suggested Readings :

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