

GUJARAT UNIVERSITY



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1957

Syllabus for B.A Geography: 2023 - 24

As per New Education Policy

GEOGRAPHY

Course Structure with credits, hours, and marks

Course Code	Course Name	Credit	Work Hours / week	Exam hours	Marks		
					Internal	External	Total Marks
Semester 1							
D-GEO-M/M1-101	Introduction to Geography	3	3	3	30	70	100
D-GEO-M/M1-102	Geography of Gujarat - Physical	2	4	4	15	35	50
GEO-IDC 101	Lithospheric Hazards	3	3	3	30	70	100
Semester 2							
D-GEO-M/M1-201	Geomorphology	3	3	3	30	70	100
D-GEO-M/M1-202	Geography of Gujarat - Economic Activities, Population and Development	2	4	4	15	35	50
GEO-IDC 103	Lithospheric Hazards	3	3	3	30	70	100

GUJARAT UNIVERSITY

SYLLABUS FOR B.A. (GEOGRAPHY)

B.A SEMESTER 1

Paper No. DGEOM/M1 - 101 INTRODUCTIONS To GEOGRAPHY

COURSE OBJECTIVE:

- 1. To acquaint the student with distinctiveness of geography as a field of learning in social science as well as in natural science.**
- 2. To introduce students with the basic understanding of the atmosphere, the earth and the anthroposphere**
- 3. To make students aware about the resources.**

COURSE OUTCOME:

The philosophy and methodology of the subject is discussed in such a way that students develop a keen interest in the subject and pursue it for higher studies.

COUSE SYLLABUS:

Unit-I: Meaning, definition, nature, scope and subject matter of Geography; Geography and other disciplines; solar system

Unit-II: Seasons, grid system and motion of the earth, Torrid, temperate and frigid zones, International Date Line, seasons and eclipse, phases of moon

Unit-III: Weather and Climate, elements and factors of climate, origin of Indian Monsoon (thermal concept).

Unit-IV: Resources – meaning and classification of resources (with special reference to forest, water and soil, its importance and conservation).

REFERENCES:

- 1) Shah M. R and K.N.Jasani, Bhautik Bhugol, University Granth Nirman Board, Ahmedabad.
- 2) Singh Savindra, Physical Geography, Prayag Pustak Bhavan, Allahabad.
- 3) Lal D.S. Climatology, Sharada Pustak Bhavan, Allahabad.
- 4) Singh Savindra, Climatology, Prayag Pustak Bhavan, Allahabad.
- 5) Tiwari R.C., Geography of India, Prayag Pustak Bhavan, Allahabad.
- 6) Khullar D.R. India-A Comprehensive Geography, Kalyani Publishers, New Delhi.
- 7) Singh Savindra, Environmental Geography, Prayag Pustak Bhavan, Allahabad.
- 8) Strahler A.H.and Strahler A N, Modern Physical Geography, John Wiley and Sons (Asia) Pvt. Ltd.
- 9) Critchfield H.J. General Climatology, Prentice Hall, Englewood Cliffs
- 10) Saxena H.M., Environmental Geography, Rawat Publications, Jaipur

PAPER NO. DGEOM/M1 - 102 GEOGRAPHY OF GUJARAT- (PHYSICAL)

COURSE OBJECTIVE:

- 1 The course is aimed at presenting a comprehensive, integrated and empirically based profile of Gujarat.**
- 2 To highlight the linkages of systematic geography of Gujarat with the regional personality of the state.**
- 3 To acquaint students with the information about resources and its conservation.**

COURSE OUTCOME:

The course is designed to present the role of the geographical positioning of Gujarat in moulding its geostrategic personality.

COUSE SYLLABUS:

Unit-I: Location and physiographic divisions: Location, area, neighbouring States, Country, Major physiographic divisions: the Gujarat plains, the Saurashtra plateau, Kutch the Coastal low land, the Eastern hilly area, geological base in brief.

Unit-II: Drainage pattern: Major rivers and other water bodies, Climate and seasons of Gujarat, factors affecting climate, monsoon phenomena over Gujarat.

Unit-III: Types and distribution of minerals: coal, oil & natural gas resources, non-metallic and non-fuel resources – Limestone, Fluorspar, Metallic resources

Unit-IV: Types and distribution of Soil, water and natural vegetation (types of forests), forest as a resource and forest based industries in Gujarat, conservation of forest.

REFERENCES:

- 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
- 9) Directorate of Agriculture: Ahmedabad Statistics of Principal Crops in Gujarat state

B.A SEMESTER 2

PAPER NO. DGEOM/M1 - 201 GEOMORPHOLOGY

COURSE OBJECTIVES:

- 1. To provide knowledge on the basics of geography**
- 2. To understand the earth's profile as a planet**
- 3. To understand the dynamic nature of the earth's crust**

COURSE OUTCOME

After learning, students will be able to -

- 1. Understand Geography as a discipline**
- 2. Understand the geophysical profile of the earth in general**
- 3. Understand the chronology of events that shaped the earth**

COUSE SYLLABUS:

Unit – I: Origin of the earth – Solar system, Geological history of the earth, Interior of the earth

Unit – II: Theory of Isostasy, Theory of Continental Drift, Plate tectonics, endogenetic forces – folding and faulting, earthquakes and volcanoes

Unit – III: Exogenetic forces - Weathering – Physical, chemical and biological, theory of mountain building and sea floor spreading,

Unit – IV: Cycle of erosion – W. M. Davis and Walther Penck, landforms – fluvial, marine, Aeolian, glacial and karst

REFERENCES:

- 1) Lake, P: 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: Modern Physical Geography, John Willey & Sons, Canada
- 5) Singh, Savindra: Physical Geography, Prayag Pustak Bhavan, Allahabad
- 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

PAPER No. DGEOM/M1 - 202

GEOGRAPHY OF GUJARAT (ECONOMIC ACTIVITIES, POPULATION AND DEVELOPMENT)

COURSE OBJECTIVE:

- 1 The course is aimed at presenting a comprehensive, integrated and empirically based profile of Gujarat with respect to human aspect.**
- 2 To highlight the linkages of economic and demographic systematic geography of Gujarat with the regional personality of the state.**
- 3 To acquaint students with the perspective of economy and demography with special emphasis to the state.**

COURSE OUTCOME:

The course is designed to present the role of the geographical positioning of Gujarat in moulding its geostrategic personality.

COUSE SYLLABUS:

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, dairy

Unit-III: Transport & Trade -Transport network-pattern and density- road, rail, airways and ports (Pipavav, Dahej and Mundra – private ports; Kandla – public; Alang as a ship-breaking yard), Trade - local, regional, national and international.

Unit-IV: Population – distribution, density, Demographic characteristics, urban, rural and tribal population, their distribution and problems related to Urbanization and industrialization

REFERENCES:

- 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

GEO – IDC 101: LITHOSPHEREIC HAZARDS

COURSE OBJECTIVES:

Objectives of the Course include:

- **Providing classification and characteristics of the Lithospheric Hazards caused by Internal and External factors;**
- **Demonstrating the devastating effect of lithospheric disasters on the human society, economy and the environment at large;**
- **Providing understanding of the challenge and threat that lithospheric disasters represent to sustainable development;**

COURSE OUTCOME:

The students of the course are expected to develop understanding of different complex ways of interaction of various geomorphic factors responsible for the Lithospheric Hazards. They would also be enabled to develop understanding of how and why some regions and socio-economic groups of people are more susceptible to harm from certain lithospheric hazards than others. The students would acquire clear understanding of gigantic socio-economic and environmental cost of the Lithospheric Hazards and the hindrance they cause in attaining sustainable development.

COURSE SYLLABUS:

UNIT – I Introduction: Lithospheric hazards – introduction, types and characteristics. Underlying Geomorphic Processes Responsible for Lithospheric Hazards – movement of Tectonic Plates, Weathering and Mass Movement.

UNIT – II: Lithospheric Hazards caused by movement of Tectonic Plates, Earthquakes, Volcanoes & Tsunamis,– types, causes, distribution and environmental and socio-economic impact, challenge and threat posed to Sustainable Development

UNIT – III: Lithospheric Hazards caused by External Factors, Landslides, Mass Wasting, Subsidence and Avalanches – types, causes, distribution and environmental and socio-economic impact, challenge and threat posed to Sustainable Development

REFERENCES:

- 1) Keller, E. A and DeVecchio, D. E. (2008) : Routledge
- 2) Rajiv Bhansal (2021) **आपदा प्रबंधन (हिंदी)** SBPD Publication
- 3) Ram Suresh and Yadav P.G. (1998) : Bhautik Bhugol, Uni. Granth Nirman Board
- 4) Shah, M.R.: Bhautik Bhugol, Uni. Granth Nirman Board
- 5) Singh, Savindra (2005) : Physical Geography, Pravalika Publications

GEO-IDC 103: ATMOSPHERIC HAZARDS

COURSE OBJECTIVES:

- 1. To introduce the meaning and understanding of atmospheric hazards**
- 2. To acquaint students with the reasons behind atmospheric hazards**
- 3. To suggest measures to lessen the impact of atmospheric hazards**

COURSE OUTCOME:

By the end of the course the students will gain knowledge about the occurrence of atmospheric hazards, its impact and its mitigation which will ultimately help them to appreciate the importance of sustainable living in a broader sense.

COURSE CURRICULUM:

Unit – I: Meaning of atmospheric hazards, relevance and scope of its study

Unit–II: Types of atmospheric hazards – Temperate and tropical cyclones, thunderstorms, tornadoes, cloud bursts, floods and droughts

Unit–III: Understanding the causes behind atmospheric hazards. Monitoring, assessment and mitigation of atmospheric hazards in developing countries

REFERENCES:

- 1) 'Introducing Physical Geography'. Strahler & Strahler, 6th edition, 2013 Wiley India Pvt. Ltd.
- 2) 'An Introduction to Climate', Glenn T Trewartha, 1954, Mc Graw Hill Book Company.
- 3) 'Physical Geography', Savindra Singh, 2017, Prayag Pustak Bhawan.
- 4) 'General Climatology', H J Critchfield, 1966, Prentice Hall India.
- 5) 'Ways of Weather', P A Menon, 2005, National Book Trust.