

**SARDAR PATEL UNIVERSITY**  
**BACHELOR OF ARTS GEOGRAPHY**  
**BA GEOGRAPHY Semester 01**  
Implementing from 2023-24

Course Code	<b>UA1MAGEO01</b>	Title of the Course	Fundamentals of Geography
Total Credits of the Course	4	Hours per Week	04
Course Objectives:	1. The objective of this course is to introduce the latest concepts in physical Geography. 2. Essentially Geomorphology; to the students of geography in a brief but Adequate manner.		
Course Content			
Unit	Description	Weight age %	
1.	<b>Solar system, Origin of Earth, Geological Time Scale</b> Meaning, Definition, Nature, Scope of the Geography and Physical Geography, Branches of Physical Geography and Inter-relation with other branches of Earth Science. Solar System, Origin of the Earth, Concept of Monistic and Dualistic. Age of Earth, Geological Time Seale.	25%	
2.	<b>Interior of Earth, Geo-Isostasy, Rock, Soil and land</b> Earth interior structure, Evidence of Seismology, Primary, Secondary and Long period waves, Different layers of the Earth. Meaning of Isostasy, Principal of Isostasy, Pratt's and Airy's view of Isostasy. Meaning and Definition of Rock, Classification of Rocks, Rock Cycle, Meaning and Definition of Soil, Types of Soil,	25%	
3.	<b>Natural Forces and Landscape, Mountain Construction</b> Definition of Relief and Natural forces, Classification of Natural forces (Endogenetic and Epigenetic forces) Definition of mountain, Classification of mountains.	25%	
4.	<b>Volcano and Earthquakes</b> Meaning and Definition of Volcano, Volcanism, Volcanic eruptions, Causes of Volcanism, Types of Volcanoes, and volcanic action Associated Landforms. Areal distribution of volcanoes, Meaning of Earthquakes, Types and Causes and Impact of earthquakes.	25%	

Teaching-Learning Methodology	ICT, Group Discussion Lecture method, Class room Seminar, quiz
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weight age
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Understand the components of the earth system – atmosphere, lithosphere and hydrosphere;
2.	Appreciate and understand various features of the spheres with local, regional and global examples;
3.	Associate and bring out the relationships of the features of one sphere with other spheres.

Suggested References:	
Sr.	References
1.	M. R. Shah and K.N. Jasani (2016) - Physical Geography, Uni. Granth Nirman Board, Ahmedabad (Gujarati)
2.	Alan Strahler - Physical Geography, John Wiley and Sons
3.	Savindra Singh (2018): Physical Geography, Pravalika Pub. Allahabad (Hindi, English)
4.	Bryant, H. Richard (2001): Physical Geography Made Simple, Rupa and Company. New Delhi
On-line resources to be used if available as reference material	
On-line Resources: <a href="https://en.m.wikipedia.org/wiki/Structure_of_Earth">https://en.m.wikipedia.org/wiki/Structure_of_Earth</a>	
<a href="https://en.m.wikipedia.org/wiki/mountain_formation">https://en.m.wikipedia.org/wiki/mountain_formation</a>	
<a href="https://en.m.wikipedia.org/wiki/volcanoes_and_earthquakes">https://en.m.wikipedia.org/wiki/volcanoes_and_earthquakes</a>	

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Course Code	<b>UAIMAGE002</b>	Title of the Course	Physical Geography of Gujarat
Total Credits of the Course	4	Hours per Week	04
Course Objectives:	1. To understand the concept of Region and Regional Planning. 2. To describe the basic characteristics of physical features of Gujarat.		
<b>Course Content</b>			
Unit	Description		Weight age%
1.	<b>History of Gujarat, Location, Area and Boundary</b> History of Gujarat, Geographical identity among other States of India, Size, Location, Area and political boundary of Gujarat. Main Physiographic divisions of Gujarat.		25%
2.	<b>Climate and Drainage System of Gujarat</b> Drainage Patterns of major rivers and their importance and irrigation utilizes Major Seasons and Agro climatic regions of Gujarat, Factors influencing climate of Gujarat, Drought and water scarcity in Gujarat		25%
3.	<b>Natural Resource and Livestock of Gujarat</b> Types of Vegetation, Forest products and their utilities, Animal husbandry, Dairy farming & Fisheries, Wild life of Gujarat.		25%
4.	<b>Land , Agriculture, Minerals and Power Resources</b> Major types and distribution of soil, Soil problems and Soil Conservations. Types of Mineral resource: Distribution and Utility, Types of Power resource: Distribution and Utility.		25%
Teaching-Learning Methodology	ICT, Group Discussion Lecture method, Class room Seminar, quiz		

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weight age
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%
Course Outcomes: Having completed this course, the learner will be able to		
1.	Detailed exposure to the human and physical feature of Gujarat.	
2.	In-depth knowledge of different resource based and their economic importance of Gujarat.	
3.	Understanding socio-cultural based of Gujarat.	
Suggested References:		
Sr.	References	
1.	Dr. Manjula Dave-Leang (2018): Regional & Economic Geography of Gujarat, Uni. Granth Nirman Board, Ahmedabad (Gujarati)	
2.	Dikshit, K.R(1970): Geography of Gujarat, National Book Trust, Bombay.	
3.	R. C. Chandra (1986): Regional Geography of India, Kalyani pub. Delhi.	
4.	Census of India: Gujarat Part II – A & B, General Census Tables.	
5.	Gujarat Vishwa kosh (in Gujarati), Gujarat Vishwa kosh Trust, Ahmedabad, 2000.	
On-line resources to be used if available as reference material		
On-line Resources: <a href="https://en.m.wikipedia.org/wiki/Geography_of_Gujarat">https://en.m.wikipedia.org/wiki/Geography_of_Gujarat</a> <a href="https://www.researchgate.net/publication/264160274_Livestock_Genetic_Resources_of_Gujarat">https://www.researchgate.net/publication/264160274 Livestock Genetic Resources of Gujarat</a> <a href="https://www.google.com/amp/s/gujarat.pscnotes.com/gujarat-geography/gujarat-natural-and">https://www.google.com/amp/s/gujarat.pscnotes.com/gujarat-geography/gujarat-natural-and</a>		

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Course Code	<b>UA1MIGEO01</b>	Title of the Course	Bio-Geography
Total Credits of the Course	4	Hours per Week	04
Course Objectives:	1. The students of the interrelationship among the living organisms within the environment and the importance of conservation of biosphere and biodiversity. 2. Interaction between living organisms with climate and physical environment, with special reference to India..		
Course Content			
Unit	Description	Weight age %	
1.	Definition, scope and significance of biogeography, Basic ecological principles: Bio energy cycle in the terrestrial ecosystem: energy budget of the earth; trophic levels and food chain : Darwin’s theory of evolution ; concepts of Biome, Ecotone and Community.	25%	
2.	Origin of fauna and flora; major gene-centres; domestication of plants and animals and their dispersal agents and roots. Distribution of plant life on the earth and its relation to soil, climate and human activities; Geographical distribution of animal life on the earth and its relation to vegetation types. Climate and human activities.	25%	
3.	Communities- nature of communities and ecosystems; bio-diversities; human induced community change, habital decay and conservation. Industrial effluent and its effect on fresh water and marine biology; management practices ( special reference to India)	25%	
4.	Study of nay tow of the following ecological regions of India in relation to their plant and animal life, their interrelations, problems, conservation and management: (a) mangrove (b) tropical rainforest (c) Deseret (d) Mountain (e) fresh water and marine.	25%	
Teaching-Learning Methodology	ICT, Group Discussion Lecture method, Class room Seminar, quiz		
Evaluation Pattern			
Sr. No.	Details of the Evaluation	Weight age	

1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to

1.	Familiarise the dynamics of climate and related theories.
2.	Understand of Vegetation as an index of climate.
3.	Assess of different aspects of floral and faunal provinces.

Suggested References:

Sr.	References
1.	Hagget, R.J : Fundamentals of Biogeography, Routledge, London,1988
2.	Robinson H: Biogeography, McDonald and Evans, London, 1982
3.	World Resources 2000-01: People and Ecosystems ; World Resources Institute Washington, 2001
4.	Dr.Pradipkumar Giv bhugol.Discovery publishing house New Delhi 2007

On-line resources to be used if available as reference material

On-line Resources: [https://en.m.wikipedia.org/wiki/Structure\\_of\\_Earth](https://en.m.wikipedia.org/wiki/Structure_of_Earth)

[https://en.m.wikipedia.org/wiki/mountain\\_formation](https://en.m.wikipedia.org/wiki/mountain_formation)

[https://en.m.wikipedia.org/wiki/volcanoes\\_and\\_earthquakes](https://en.m.wikipedia.org/wiki/volcanoes_and_earthquakes)

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Course Code	<b>UA1IDGEO01</b>	Title of the Course	Disaster Management
Total Credits of the Course	04	Hours per Week	04
Course Objectives:	1. Understanding the basic concepts and the classification method of disasters. 2. acquire knowledge on the causes, impacts, distribution and mapping of Disasters of India. 3. Appreciate the responses and mitigation measures of disasters in India.		
Course Content			
Unit	Description	Weight age%	
1.	Disasters: Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification	25%	
2.	Disasters in India: (a) Flood: Causes, Impact, Distribution and Mapping; Landslide: Causes, Impact, Distribution and Mapping; Drought: Causes, Impact, Distribution and Mapping.	25%	
3.	Disasters in India: (b) Earthquake and Tsunami: Causes, Impact, Distribution and Mapping; Cyclone: Causes, Impact, Distribution and Mapping	25%	
4.	Manmade disasters: Causes, Impact, Distribution and Mapping  Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM;  Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During and Post Disasters.	25%	
Teaching-Learning Methodology	ICT, Group Discussion Lecture method, Class room Seminar, quiz		
Evaluation Pattern			
Sr. No.	Details of the Evaluation	Weight age	

1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to

1.	Understand the basic concepts and the classification method of disasters.
2.	Acquire knowledge on the causes, impacts, distribution of disaster in world and India.
3.	Responses and mitigation resources of disaster.

Sr.	References
1.	Modh. S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi
2.	Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3
3.	Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi
4.	Dr. N. G. Dixit (2012) Disaster Management, Arunoday Publication, Ahmadabad (Gujarati).
5.	Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi

On-line resources to be used if available as reference material

On-line Resources: ([www.ikbooks.com](http://www.ikbooks.com)).

[https://en.m.wikipedia.org/wiki/Ecosystem\\_ecology](https://en.m.wikipedia.org/wiki/Ecosystem_ecology)



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Course Code	<b>UA1SEGEO01</b>	Title of the Course	Resource Geography-I
Total Credits of the Course	02	Hours per Week	02
Course Objectives:	1 Understand concepts and approaches of natural resource management. 2.Examine use and misuse of various resources and to analyses future prospects, to study various methods and approaches of conservation and Management of natural Resources.		
<b>Course Content</b>			
Unit	Description	Weight age%	
1.	Meaning, Types and Classification of resources, Renewable and non-renewable resources, Natural resources and associated problems. Forest resources: Use and over-exploitation, deforestation. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.	<b>50%</b>	
2.	Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity. Mineral resources: Use and exploitation, environmental effects of extracting and Using mineral resources. Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.	<b>50%</b>	
Teaching-Learning Methodology	ICT, Group Discussion Lecture method, Class room Seminar, quiz		
<b>Evaluation Pattern</b>			
Sr. No.	Details of the Evaluation	Weight age	
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%	
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%	
3.	University Examination	70%	

Course Outcomes: Having completed this course, the learner will be able to	
1.	Understand the dynamic interactive relationship between man and environment.
2.	Have sound understanding on distribution, utilization and proper management of natural resources at global level.
3.	Make assessment and review of planning and policies related to environment and natural resources.
Sr.	References
1.	Dr.N.G.Dixit,(2015):Man And Environment.Aronoday Prakashan.Ahmedabad
2.	Savindra Singh, (2000): Environmental Geography. Prayag Pustak Bhavan, Allahabad
3.	S.D.Kaushik,(2004) (Sansadhan Bhugol),Rastogi publication, Merath, Dehli.(Hindi)
4.	Dr.B.C.Jat,(2001)(Economic & Resource Geography),Prayag Pustak Bhavan,Allahabad
On-line resources to be used if available as reference material	
On-line Resources: <a href="https://en.m.wikipedia.org/wiki/Ecosystem_ecology">https://en.m.wikipedia.org/wiki/Ecosystem_ecology</a>	
<a href="https://en.m.wikipedia.org/wiki/Biodiversity">https://en.m.wikipedia.org/wiki/Biodiversity</a>	
<a href="https://en.m.wikipedia.org/wiki/Physical_impacts_of_climate_change">https://en.m.wikipedia.org/wiki/Physical_impacts_of_climate_change</a>	