

SARDAR PATEL UNIVERSITY,
Vallabh Vidyanagar.
Programme & Subject : B.A. Geography (CBCS)
SEMESTER-III
SYLLABUS FROM THE ACADEMIC SESSION 2018-19

Paper Code: UA03CGEO21		Total Credit:3
Title of Paper : Climatology.		
Unit	Description in Detail	Weight age (%)
1.	1.1 Atmospheric Composition and Structure 1.2 Variation with Altitude 1.3 Latitude and Season.	25%
2.	2.1 Insulation and Temperature 2.2 Factors and Distribution 2.3 Heat Budget 2.4 Temperature Inversion.	25%
3.	3.1 Atmospheric Pressure 3.2 Winds – Planetary Winds 3.3 Forces affecting Winds, General Circulation 3.4 Jet Streams and Al-Nino	25%
4.	4.1 Atmospheric Moisture – Evaporation 4.2 Humidity, Condensation, Fog and Clouds 4.3 Precipitation Types, Stability and Instability; Climatic Regions of the world 4.4 Cyclones – Tropical Cyclones, Extra Tropical Cyclones, Monsoon - Origin and Mechanism	25%
Readings	1. Barry R. G. and Carleton A. M., 2001: <i>Synoptic and Dynamic Climatology</i> , Routledge UK. 2. Barry R. G. and Corley R. J., 1998: <i>Atmosphere, Weather and Climate</i> , Routledge, New York. 3. Critchfield H. J., 1987: <i>General Climatology</i> , Prentice-Hall of India, New Delhi 4. Trewartha G. T. and Horne L. H., 1980: <i>An Introduction to Climate</i> , McGraw-Hill. 5. Lal, D S (2006): <i>Jalvayu Vigyan</i> , PrayagPustakBhavan, Allahabad 6. Vatal, M (1986): <i>Bhautik Bhugol</i> , Central Book Depot, Allahabad 7. Singh, S (2009): <i>Jalvayu Vigyan</i> , PrayagPustakBhawan, Allahabad 8. K.N.Jasani & M.R. Shah (2016) <i>Physical Geography (Gujarati)</i>	

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Paper Code: UA03CGEO22		Total Credit:3
Title of Paper : Physical Geography of Gujarat.		
Unit	Description in Detail	Weightage (%)
1.	1.1 History of Gujarat 1.2 Geographical identity among other States of India 1.3 Size, Location, Area and political boundary of Gujarat. 1.4 Main Physiographic divisions of Gujarat	25%
2.	2.1 Drainage Patterns of major rivers and their importance and irrigation utilities 2.2 Major Seasons and Agro climatic regions of Gujarat 2.3 Factors influencing climate of Gujarat 2.4 Drought and water scarcity in Gujarat	25%
3.	3.1 Types of Vegetation 3.2 Forest products and their utilities 3.3 Animal husbandry, Dairy farming & Fisheries 3.4 Wild life of Gujarat.	25%
4.	4.1 Major types and distribution of soil 4.2 Soil problems and Soil Conservations. 4.3 Types of Mineral resource : Distribution and Utility 4.4 Types of Power resource : Distribution and Utility	25%
Readings	1. Dikshit, K.R.: Geography of Gujarat, National Book Trust, New Delhi. 2. Dave, Manjula, B.: Regional & Economic Geography of Gujarat, University GranthNirman Board, Ahmedabad. (Gujarati) 3. Census of India: Gujarat Nakshama, University GranthNirman Board, Ahmedabad. 4. Gujarat Vishwakosh Trust: Gujarat (in Gujarati), Gujarat Vishwakosh Trust, Ahmedabad, 2000. 5. Census of India: Gujarat Part II – A & B, General Census Tables. 6. Bureau of Economics and Statistics, Government of Gujarat: Handbook of Basic Statistics, 1965.	

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SYLLABUS FROM THE ACADEMIC SESSION 2018-19

Paper Code: UA03CGEO23		Total Credit:3
Title of Paper : Principals of Cartography. (Theory)		
Unit	Description in Detail	Weight age (%)
1.	1.1 Historical Development of Cartography till modern period, 1.2 Artistic and Scientific bases of Cartography. 1.3 Cartography as a Science of human communication – Branches of Cartography., 1.4 Recent trends in Cartography, Use of Computer and GIS in Cartography.	25%
2.	2.1 History of Maps - Types of maps - Classification of maps Based scale and purpose. 2.2 Use of maps, Components of Map: Scale, Map Projection, Conversational Sign, 2.3 Map making in India, Brief History of Survey of India. 2.4 Various Methods of showing relief : Hachure's, Shading, layer tints, contours, bench, mark, spot height and trig point, Their Merits and Demerits.	25%
3.	3.1 Weather instruments, uses and the data collected from them. 3.2 Significance of weather maps, Weather Symbols, Major Activities of Indian Meteorological Department. 3.3 Forecasting of weather, Recent Trends in weather forecasting use of satellites, remote sensing data. 3.4 use of computer in weather measurement and forecasting.	25%
4.	4.1 Importance of Fieldwork and laboratory work in Geography, 4.2 The Different Approaches to Fieldwork. 4.3 Design and Methodology of Field Work, 4.4 Advantages of fieldwork, Collection of Information and data.	25%
Readings	1. Misra,R.P. and Ramesh,A (1999) Fundamentals of Cartography, Mac Millan, New Delhi. 2. Gopal Singh, (1996) Map Work and Practical Geography, Vikas Publishing House, New Delhi 3. Singh,R.L. and Dutt,P.K. (1968) Elements of Practical Geography, Students Friends, Allahabad. 4. Negi,B.S. (1998) Practical Geography, Kedarnath and Ramnath, Meerut. 5. Gopal Singh, (1996) Map Work and Practical Geography, Vikas Publishing House, New Delhi.	

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 SYLLABUS FROM THE ACADEMIC SESSION 2018-19
Skill Enhancement Papers

Paper Code: UA03SGEO21		Total Credit:3
Title of Paper : Resource Geography-1		
Unit	Description in Detail	Weightage (%)
1.	Meaning, Types and Classification of resources, Renewable and non-renewable resources, Natural resources and associated problems.	25%
2.	A) Forest resources: Use and over-exploitation, deforestation. B) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.	25%
3.	A) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity. B) Mineral resources : Use and exploitation, environmental effects of extracting and Using mineral resources.	25%
4.	A) Energy resources: Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources. B) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.	25%
	<ol style="list-style-type: none"> 1. Brereton, E. 1992 :<i>Resource Use and Management</i>, Cambridge U Press, Cambridge: 2. Elliotte, j. A. 1994 :<i>An Introduction to Sustainable Development: The Developing World</i>, Routledge, London: 3. Mitchell, B. 1997 :<i>Resources and Environment Management</i>, Addison Wesley London Ltd., Harlow 4. Pickering, K. and Owen, L.A. 1997 :<i>An Introduction to Global Environmental Issues</i>, 2nd edition, Routledge, London: 5. Johnston, R.J., Taylor, P.J. and Watts, M.J. (editors) : 1995: <i>Geographies of Global Change: Remapping the World in the Late Twentieth Century</i>, Blackwell, Oxford: 440p. 6. United Nations Populations Fund 1997 :<i>India Towards Population and Development Goals</i>, Oxford University Press, New Delhi: 7. Unwin, T. (editor) 1994: <i>Atlas of World Development</i>, John Wiley and Sons Ltd., Chichester: 8. World Resources Institute 1998: <i>World Resources 1998-99: A Guide to the Global Environment</i>, Oxford University Press, 10. Negi, B.S. (1997) <i>Geography of Resources</i>, Rastogi Pub., Meerut. 	

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 SYLLABUS FROM THE ACADEMIC SESSION 2019-20
Skill Enhancement Papers

Paper Code: UA03SGEO22		Total
Title of Paper : Bio Geography-II		Credit:3
Unit	Description in Detail	Weightage (%)
1.	Definition, scope and significance of Bio-Geography, Basic Ecological concepts and principles.	25%
2.	Source of energy – Tropic levels, food chain and food webs' Ecological pyramids (number, pyramids, biomass pyramids and energy pyramids) – Flow of energy.	25%
3.	Origin of fauna and flora; domestication of plants and animals and their dispersal agents, geographical distribution of plants in relation to soil, climate, distribution of animal life in relation to vegetation type and climate.	25%
4.	Ecological region of Gujarat – Their characteristics, distribution, problem, conservation and management. (1) Forest , (2) Wetland , (3) Desert , (4) Marine	25%
Reading	1.Odum,Eugene.P: Fundamentals of Ecology, W.B. Saunders Co. London, (1971). 2.Robinson, H: Bio-Geography, McDonald and Evans, London, (1982). 3.Singh Savinder, Environmental Geography, Prayag Pustak Bhavan, Allahabad, (2005). 4.Saxena H.M: Environtal Geography, Rawat Publication, Jaipur.	