

SARDAR PATEL UNIVERSITY
Programme: BA (Geography)
Semester: IV
Syllabus with effect from: December 2012

Paper Code: UA04CGEO08	Total Credits: 3
Title Of Paper: Oceanography	

Unit	Description in detail	Weightage (%)
1	Definition, nature and scope of oceanography, Nature of ocean floor- continental shelf, continental slope, deep ocean basin and trenches. Expansion of ocean floor. Bottom topography of the Atlantic, Pacific and Indian Oceans.	
2	Physical and chemical properties of sea water, heat and salt budgets of ocean. Distribution of temperature and salinity.	
3	Ocean circulation : Oceanic currents, factors affecting on oceanic currents, currents of Atlantic, Pacific and Indian Ocean. Sea Waves and Tides	
4	Marine deposits - classification of deposits, coral reefs, coral bleaching	
5	Marine resources: Biological resources, mineral resources and energy resources.	
6	Major marine environment : Estuaries, deltas, continental shelf, continental slope, Impact of human on marine environment..	

Basic Text & Reference Books:

- Anikouchine, W.A. and : The World Oceans – An Introduction
- Sternberg, R.W. to Oceanography
- Grald, S.: General Oceanography- An Introduction
- Garrison, T.: Oceanography
- King, C.A.M. : Beaches and Coasts
- King, C.A.M. : Oceanography for Geographers
- Sharma, R.C. Vatel M. : Oceanography for Geographers
- Shepard, F.P. : Submarine Geology
- Thurman, H.B. : Introductory Oceanography
- Weisberg, J. and Howard: Introductory Oceanography



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Paper Code: UA04CGEO09	Total Credits: 3
Title Of Paper: Economic Geography of Gujarat	

Unit	Description in detail	Weightage (%)
1	Gujarat: Geographical profile Gujarat Location area, Geographical identity among other States of India, Size and political boundary of Gujarat.	
2	Major Physiographic divisions of Gujarat. The coastal low land and the desert The plains of Gujarat The plains of Saurashtra The Hills and highland regions.	
3	Drainage pattern: Drainage pattern major river, Their Importance and Utilities, Types Irrigation Major multiple purpose of irrigation, Projects and their regional signification with special reference of Sardar Sarover Project.	
4	Impact of Climate: Climate and climatic regions, Factors influencing climate of Gujarat, Temperature and rainfall condition regional variation and their impact on economic activities of Gujarat	
5	Soil & Agriculture: Soil major types and their distribution, soil problems and their remedies, Major crops-Cotton, Tobacco, Groundnuts, Rice, wheat, Bajra etc. Characteristics of agriculture, Agricultural Problems and their remedies. Low productivity Drought Soil erosion.	

Basic Text & Reference Books:

- Dikshit, K.R.: Geography of Gujarat, National Book Trust, New Delhi.
- Dave, Manjula, B.: Gujarathi Pradeshik Aane Arthik Bhoogol, University Granth Nirman Board, Ahmedabad.
- Census of India: Gujarat Nakshama, University Granth Nirman Board, Ahmedabad.
- Gujarat Vishwakosh Trust: Gujarat (in Gujarati), Gujarat Vishwakosh Trust, Ahmedabad, 2000.
- Census of India: Gujarat Part II – A & B, General Census Tables.
- Bureau of Economics and Statistics, Government of Gujarat: Handbook of Basic Statistics, 1965.
- Directorate of Information, Government of Gujarat, Ahmedabad: Gujarat (latest).
- Directorate of Agriculture, Ahmedabad: Statistics of Principal Crops in Gujarat State (latest).
- Directorate of Industries, Government of Gujarat: “Industries in Gujarat”, Handbook of Information, (Latest).



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Paper Code: UA04CGEO10	Total Credits: 3
Title Of Paper: Cartography – 2 (Practical)	

Unit	Description in detail	Weightage (%)
1	Scale: Conversion of Scale: R.F. To verbal and Verbal to R.F., Construction of scale Simple, Time and Distance scale	
2	Representation of Land forms: Representation of different landforms by contours, Slopes, Conical hill, Plateau, Ridge, Pass, Cliff, ‘U’ shaped valley, ‘V’ Shaped valley and Spur.	
3	Climatic Diagrams: Construction of climatic diagrams, Line graph & polygraph, Simple and compound bar diagram, Wind Rose diagrams, Hythergraph, Climograph	
4	Study of Indian weather map and weather instruments Study and interpretation of January and July Indian weather maps in respect of temperature, pressure, wind direction, velocity, cloud cover and precipitation. Study of weather instruments Rain gauge, Wind wane, Anemometer, Mercury barometer, Fortin’s barometer, Thermometer – Simple, Wet and dry bulb thermometer	
5	Enlargement and Reduction of maps. Reduction of map (Manual Methods). Enlargement of map (Manual Methods).	
6	Field Visit and Preparation of Report : Students to be taken on a field visit for one day to nearby areas. Main objectives of field visit are: To prepare contour plan by using Dumpy level. To measure height by using Abney level and Indian clinometers To identify the landforms on the surface, while in the field. Also Note the agents of erosion, transportation and deposition associated With the landforms. To identify the biodiversity in the area (flora and fauna). To prepare the report with maps, sketches, photographs, etc.	

Basic Text & Reference Books:

- Monkhouse, F.J. and Wilkinson, H.R. (1968) Maps and Diagrams, Methuen, London.
- Misra, R.P. and Ramesh, A (1999) Fundamentals of Cartography, Mac Millan, New Delhi.
- Gopal Singh, (1996) Map Work and Practical Geography, Vikas Publishing House, New Delhi.
- Singh, R.L. and Dutt, P.K. (1968) Elements of Practical Geography, Students Friends, Allahabad.
- Negi, B.S. (1998) Practical Geography, Kedarnath and Ramnath, Meerut.

