SARDAR PATEL UNIVERSITY BACHELOR OF ARTS GEOGRAPHY

BA GEOGRAPHY Semester 04 Implementing from 2024-25

Cou	rse Code	e Code Major		Title of the Course	Elements	Elements of Oceanography		
	l Credits Course	of	04	Hours per Week	04	UA04M	IAGEO01	
Course Objectives:		Ocean water 2. Attached the	 The objectives of the course are to introduce students to the many facets of Oceans, such as, evolution of the oceans, physical and chemical properties of Sea water. Atmospheric and oceanographic circulation, the fascinating world of marine lift and the characteristic of marine Environment and the impact of man on the marine environment. 					
Cou	rse Conte	ent						
Unit	Desc	ription					Weight age %	
1.		_	0 1 .		rological Cycle Dist Spreading theory.	tribution of	25%	
2.	7 1	Hypsographic Curve and Ocean Floor Topography, Surface Bottom Relief, Pacific Ocean, Atlantic Ocean, Arctic Ocean & Indian Ocean.						
3.	Prop	Coral reefs and atolls, Theories of Origin of Coral reefs, Physical & Chemical Properties of Sea Water, Ocean Salinity and Temperature – Distribution and Determinants.						
4.	Effec	cts of Oce		Ocean Deposits:	cific, Atlantic & Inc Types & Distribut		25%	
	hing-Lea nodology		ICT, Group	Discussion Lectu	re method, Class roo	m Seminar,	quiz	
Eval	uation P	attern						
Sr. No. Detai		Details of the Evaluation				Weight age		
1.		Internal Written / Practical Examination (As per CBCS R.6.8.3)				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. U		University Examination					70%	
Cou	rse Outco	omes: Havi	ng completed	this course, the l	earner will be able to)		
1.	Unders	tand the ele	ements of wea	ther and climate	and its impacts at dif	ferent scales		

2.	2. Comprehend the climatic aspects and its bearing on planet earth.						
3.	Understand the oceanic process and availability of resources.						

Sug	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						
5	K.N. Jasani(2016) -: Oceanography, Uni. Granth Nirman Board, Ahmedabad. (Gujarati)						
On-	line resources to be used if available as reference material						
On-	On-line Resources: https://en.m.wikipedia.org/wiki/Structure_of_Earth						
	s://en.m.wikipedia.org/wiki/mountain_formation s://en.m.wikipedia.org/wiki/volcanoes_and_earthquakes						

SARDAR PATEL UNIVERSITY BACHELOR OF ARTS GEOGRAPHY BA GEOGRAPHY Semester 04

Course Code			Major	Title of the Course	Cultura	ral Geography of India				
Total Credits of the Course			04	Hours per Week	04	UA04MA	AGEO02			
Course Objectives:		 Various dimensions of the geographical features of India and the Distribution. Detailed analysis of economic resources of India, Understanding of Divisions of India. 								
Course (Content									
Unit	Descripti	on					Weight age %			
	Minerals	and p	ower resource	India and its co ces - Ironore, m ro, Thermal, Ator	anganese and b	auxite - Coal,	25%			
	Agricultu	Significance of agriculture in Indian Economy - Salient features of Indian Agriculture - Problems of Indian Agriculture- Green Revolution, White evolution & Blue revolution.								
	Industrial regions and Major industries of India-Location factors, development and distribution of iron, steel and cotton industries.									
1	Racial and ethnic diversities - Major tribes - Language - Religion in India. Growth & distribution of population - Composition of population -Rural - Urban migration -Urbanization and related problems. Network of roads, railways, waterways, airways and pipelines: their complementary role in regional development - Growing importance of ports in national and foreign trade. Trade balance - Developments in communication technology.						25%			
	Teaching-Learning ICT, Group Discussion Lecture method, Class room Semina Methodology			room Seminar,	quiz					
Evaluation Pattern										
Sr. No. Deta		Details of the Evaluation				Weight age				
1. Inte		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.	Univ	ersity E	Examination				70%			

Cou	Course Outcomes: Having completed this course, the learner will be able to						
1.	Understand the physical profile of the country.						
2.	Study the resource endowment and its spatial distribution and utilization for sustainable Development.						
3.	Synthesize and develop the idea of regional dimensions.						

Sugg	Suggested References:						
Sr.	References						
1.	Prof. Y. P. Pathak, Dr. J. G. Rangiya,(2014) Gujarat Granth Nirman board, Ahmedabad. (Gujarati)						
2.	Alka Gautam (2009): Geography of India, Sharda Publication, Allahabad						
3.	R. C. Chandra (1986): Regional Geography of India, Kalyani pub. Delhi.						
4.	Sharma and Coutinho (1980) Economics and Commercial Geography of India, Vikas Publication, New Delhi.						
5	Das, P.K : Monsoons National Book Trust, new Delhi,1987						
On-l	On-line resources to be used if available as reference material						
On-line Resources: https://en.wikipedia.org/wiki/Geography_of_India							
https	https://en.wikipedia.org/wiki/Geography_of_India https://en.wikipedia.org/wiki/Climate_of_India https://www.thrillophilia.com/wildlife-india						

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Course Code		Major		Title of the Course	Thematic	Thematic Cartography (Practical)		
Total Credits of the Course		04		Hours per Week	04	UA04MAGEO03		
Course Objectives:		demographic techniques a 2. The tech geographical the practical	e objectives of this course are to train the students in the art of representing graphic and Socio-economic database of any area through simple statistical ques and cartograms. The techniques of surveying and map projections necessary for accurate aphical positioning and preparing physical plans of an area also form parts of actical exercises. The students in preparing different types of maps.					
Course	Content							
Unit	Descripti	on					Weight age %	
1.	Conversion of Scale: R.F. To verbal and Verbal to R.F. Construction of scale Simple, Time and Distance scale						25%	
2.	Representation of different landforms by contours Slopes, Conical hill, Plateau, Ridge, Pass, Cliff, 'U' shaped valley, "V" shaped valley and ether Types. Construction of climatic diagrams, Line graph & polygraph, Simple and compound bar diagram, Wind Rose diagrams, Hythergraph, Climograph and ether.						25%	
3.	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.					25%		
4.	4. Enlargement and Reduction of Maps, 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 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).						25%	
Teachin Method	ng-Learnin dology	g ICT, (Group	Discussion Lectu	re method, Clas	s room Seminar,	quiz	

Eval	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)						
3.		University Examination	70%					
Cou	Course Outcomes: Having completed this course, the learner will be able to							
1.	. Read and prepare maps.							
2.	Comprehend locational and spatial aspects of the earth surface.							
3.	Use and importance of maps for regional development and decision making.							

Sug	Suggested References:						
Sr.	References						
1.	Dixit, N.G. (2016) "NAKSHA VIGYAN -1" (IN GUJARATI) University Granth Nirman Bhavan, Ahmedabad.						
2.	Singh, R.L. and Dutt, P.K. (1968) Elements of Practical Geography, Students Friends, Allahabad						
3.	Gopal Singh, (1996) Map Work and Practical Geography, Vikas Publishing House, New Delhi						
4.	Misra, R.P. and Ramesh, A (1999) Fundamental of Cartography, McMillan, New Delhi.						
5	R.N.Mishra (2023) Practical Geography method and techniques, Jaipur						
On-	On-line resources to be used if available as reference material						
On-	On-line Resources: https://en.wikipedia.org/wiki/Geography_of_India						
http	https://en.wikipedia.org/wiki/Geography_of_India https://en.wikipedia.org/wiki/Climate_of_India https://www.thrillophilia.com/wildlife-india						

Note:

- 1. Paper UA03MAGEO03- Principals of Cartography (Theory) & Paper UA04MAGEO03 Thematic Cartography (Practical) both are theory and a practical paper. Each one of the five units mentioned in the syllabus has a theoretical component and related practical sections.
- 2. The theory Component shall have 100 marks weight age (50 mark: external and 50 marks internal) in the final examination worth the duration of three hours. The practical component shall have 100 marks weight age (70 marks external including journal assessment (10 marks) and viva-voce examination (10 marks) and 30 marks internal) in final practical examination having 5 hours duration.
- 3. Number of students in a batch for a practical examination shall not have more than 15 under normal circumstance.
- 4. Students are required to keep a record of practical work in journal form duly signed by the teacher in-change on all exercises and certified by Head of the department and principal of the college.
- 5. Candidates who have not completed their journal work shall not be allowed to appear in the practical examination.
- 6. Students to be taken on a field visit for minimum one day to nearby- areas and have to submit field report.

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Course Code		N	Minor	Title of the Course	Tran	nsportation Geography		
Total Credits of the Course			04	Hours per Week	04	UA04MI0	GEO01	
Course Objectives:		 To provide clarity about elements of transport as an infrastructure that facilitates linkages among locations and areas with varied demographic socio-cultural and economic attributes and natural and agricultural resources. To acquaint the students with scope, content and theoretical framework relating to transport routes. Hierarchies, accessibility (physical and economic) 						
Course	e Content							
Unit	Descript	ion					Weight age %	
1.	Transpor	rtation	as Tertiary	and Scope of activity – A	pproaches of		25%	
2.	of transp	ements of Transportation - Geographical Factors affecting the Development transportation: Physical –Cultural – Technological- government policy in evelopment of transportation.						
3.	Regiona	Mode of Transportation: Land - Road, Railway, Air ways and Pipelines, Regional density, Distribution and Economic significance of Transportation in India and world.						
4.	Water Ways: World's major Inland Waterways and Sea Routes. Regional density and distribution of Air Transportation – Role of Indian Railway in Regional Development, Role of Technology in the Development of Transportation and Regional Development – Transportation and World trade.						25%	
	Teaching-Learning ICT, Group Discussion Lecture method, Class room Semina Methodology				ss room Seminar,	quiz		
Evalua	tion Patte	rn						
Sr. No. De		Details of the Evaluation				Weight age		
1.	Inter	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.	Univ	University Examination 70%					70%	

Cou	Course Outcomes: Having completed this course, the learner will be able to						
1.	Understand the spatial variations in movement of commodities, and trade relations within and between regions.						
2.	Relate the characteristics of flow pattern and their intensity with levels of functional economic organization in space.						
3.							

Sug	Suggested References:						
Sr.	References						
1.	Hurst, M.E.(ed.): Transportation Geography, McGraw-Hill, 1974						
2.	Hay, A.: Transport Economy, MacMillan, London, 1973						
3.	Hoyle, B.S.(ed.): Transport and Development, MacMillan, London, 1973						
4.	Majid hussain : Human Geography, Rawat, Jaipur,1999						
5	Raza, M. and Agrawal Y.P : Transport Geography of India, Concept. New Delhi, 1985						
On-	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/mountain_formation https://en.m.wikipedia.org/wiki/volcanoes_and_earthquakes						

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Course Code		Skill- Enhancement	Title of the Course					
Total Credits of the Course			Hours per Week	02 UA04	SEGEO01			
Course Objectives:		1. To de princi	After the completion of course, the students will have ability to: 1. To develop a skill among the students to prepare maps, keeping in view the principles of cartography and also user requirements. 2. To make the student understand the techniques of mapping.					
Cour	se Conter	t						
Unit Description			Weight age%					
1.	Diagr Them	Maps-classification and types: principles of Map Design. Diagrammatic Data Presentation – Line bar and circle, Thematic mapping techniques – properties, uses and limitations Areal data. Choropleth, dot proportional circles: point data- isopleths.						
2.			aphic Overlays-point, line and areal data. c Maps – preparation and interpretation.					
	hing-Lear odology	ning ICT, G	roup Discussion Lectur	e method, Class room Seminar	r, quiz			
Evalı	uation Pat	tern						
Sr. No. Detai		tails of the Evalu	ils of the Evaluation					
1.	Int	Internal Written / Practical Examination (As per CBCS R.6.8.3)						
2.		Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)						
3.	Ur	University Examination						
Cour	se Outcor	nes: Having com	pleted this course, the le	arner will be able to	•			
1.	Have sou	ave sound knowledge regarding the classification and elements of maps.						
2.	Have pro	ave proper utilization of maps for the development.						
3.	Apprecia	appreciate the preparation of various thematic maps with the application of various techniques.						
Sr.	References							

1.	Singh, R. L, and Duttta, P. K., (2012): Prayogatama Bhugol, Central Book Depot. Allahabad			
2.	Cuff, J. D. and Mattson, M. T., (1982): Thematic Maps: Their Design and Production Methuen Young Books			
3.	3. Dent, B. D., Terguson, J. S., and Holder, T. W., (2008): Cartography: Thematic Map Design (6 th Edition), McGraw Hill Higher Education			
4.	Gupta, K. K. and Tyagi, V. C., (1992): Working with Maps, Survey of India, DST, New Delhi			
5.	5. Kraak, M.J. and Ormeling, F, (2003): Cartography: Visualization of Geo-Spatial Data, Prentice-Hall			
6.	6. Mishra, R. P. and Ramesh, A., (1989); Fundamentals of Cartography, Concept, New Delhi.			
On-l	On-line resources to be used if available as reference material			

On-line Resources: https://en.m.wikipedia.org/wiki/Ecosystem_ecology-
https://en.m.wikipedia.org/wiki/Biodiversity-
https://en.m.wikipedia.org/wiki/Physical_impacts_of_climate_change

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Course Code		Value Added Course	Title of the Course	Envi	ironmental Education-II		
Total Credits of the Course		02	Hours per Week	02	UA04VAGEO01		
Course Objectives:		 After the completion of course, the students will have ability to: The objective of this paper is to provide an overview of resource geography and its interface with environment. The course aims to provide an understanding of the existing reality of resource utilization and environmental depletion; further aims to sensitize the students to the concept of sustainable resource use and sustainable development. 					
Unit						Weight age%	
1.	Environmand Env Awarene Zones & Warning	Environmental Hazard and Disaster Meaning of Environmental Hazards, Environmental Disaster & Stress, Classification of Environmental Hazards, and Environmental conservation Movements. Hazards Zone, Risk and Awareness Concept of Management of Environmental Hazards, Hazards Zones & Risk Analysis, Hazard Awareness; Pre- Hazard Conditions: Varning & Precautions, Post Hazard Condition: Rescue, Assessment & Rehabilitation					
2.	Natural Disaster Atmospheric Hazards & Disaster: Causes, Effects & 50% Management Cyclone Cloudburst and Floods, Drought, Green House effect & Global Warming. Management Terrestrial Hazards: Causes, Effects & Management, Earthquake, Landslide and Tsunami, Man- Induced Hazards: Causes, Effects & Management, Desertification, Forest Fire, Soil degradation & Population Explosion						
Teachin Method	ng-Learnii lology	ng ICT, Group	ICT, Group Discussion Lecture method, Class room Seminar,				
Evaluat	tion Patter	n					
Sr. No.	Detai	Details of the Evaluation					
1.	Inter	Internal Written / Practical Examination (As per CBCS R.6.8.3)					
2.		Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)					
3.	Univ	University Examination					

Cou	Course Outcomes: Having completed this course, the learner will be able to			
1.	Appreciate the structure and functions of ecosystems with examples.			
2.	Understand the environmental problems and relevant management strategies.			
3.	Acquire knowledge about the new environmental policies and the need to revise policies to tackle the environmental issues of India, in particular			
Sr.	References			
1.	Dr.N.G.Dixit,(2015): Man And Environment. Arunoday Prakashan, Ahmedanad			
2.	Savindra Singh, (2000): Environmental Geography. Prayag Pustak Bhavan, Allahabad			
3.	Singh R.B. & Mishra S. (1996) Environmental Laws in India ,Issues & Responses Rawat Publication, New Delhi.			
4.	Dr. N. G. Dixit.(2012) Disaster Management. Arunoday Prakashan, Ahmedabad			
On-	On-line resources to be used if available as reference material			
http	On-line Resources: https://en.m.wikipedia.org/wiki/Biodiversity https://en.m.wikipedia.org/wiki/Physical_impacts of climate change			