Savitribai Phule Pune University, Pune T.Y.B.A

Gg. 301: Techniques of Spatial Analysis (S-4) Effective from-June-2015

Workload: Six periods per week per batch (12 students for per Batch) (Examination for the course will be conducted at the end of academic year).

Objectives:

- 1. To Introduce the Students with SOI Toposheets and to acquire the Knowledge of Toposheet Reading/Interpretation.
- 2. To familiarize the students with the weather instruments and their applications in Geographical phenomena.
- 3. To acquaint the students with IMD weather maps and to gain the knowledge of weather map Reading / interpretation.
- 4. To train the students in elementary statistics as an essential part of geography.
- 5. To awareness about GIS among the students.

Section - I

Unit No.	Topic	Learning Points	
1	Toposheets	 a. Introduction to Survey of India (SOI) toposheets, Marginal Information, Grid reference, Conventional signs and symbols b. Types of toposheet/Indexing of toposheets i. 1: 100000/Million sheet ii. 1:250000/Degree sheet/Quarter inch sheet iii. 1:100000/Half inch sheet iv. 1:50000/One inch sheet v. 1:25000 vi. 1: 5000 	15
2.	Methods of Relief Representation	 Methods of Relief Representation Qualitative :- Hachures, Hill shading, Layer Tint Quantitative:- Contours, Form lines, Bench Marks, Spot Heights, Triangulation Mark, Relative Height (r) Representation of Relief features by Contours Concave Slope, Convex Slope, Steep Slope, Gentle Slope, Terraced / Uniform Conical Hill, Spur, Plateau, Ridge, Saddle, Pass, Cliff & Waterfall Profile Drawing and Description of Cross Profile of any Region from toposheet Drawing and Description of Longitudinal Profile of a Road or a River 	15
3.	Toposheet Reading, Interpretation & data generation	 Reading of at least three SOI toposheets one each for Plain, Plateau and Mountainous/hilly Region One day field Excursion for Orientation of toposheet, Observation and Identification of Geographical Features and Preparation of a Brief Report 	15

4.	Application of Remote Sensing Techniques in Geography	 Introduction of Aerial Photographs & Satellite Image Stereoscopic View of Aerial Photographs & Satellite Image and Identification of Geographical features Use of Computer open source software for visualization of Arial Photographs & Satellite Image 	15
		Section - II	
5.	Weather Maps & Reading	a. Introduction to Weather Maps b. Symbols in Daily Weather Report used by India Meteorological Department (IMD) c. Isobaric pattern Cyclones, Anti cyclones, V shaped Cyclones, V Shaped Anti Cyclones, Col a. Reading of Weather Map of Three Seasons i. Summer ii. Monsoon iii. Winter b. One day visit to nearby weather station of IMD	12
6.	Geographical Data & Measures of Central Tendency	 a. Spatial and Temporal data b. Discrete and Continuous series c. Grouped and Ungrouped data d. Meaning and description of central tendencies- Mean, Mode, Median e. Calculation of Mean, Mode, Median for ungrouped and grouped data (two examples each) 	12
7.	Measures of dispersion	a. Variance and Standard deviation for ungrouped and grouped data (two examples each)	06
8.	Correlation & Regression Testing of Hypothesis,	a. Correlation and regression i. Concept of bivariate correlation and regression ii. Meaning of coefficient of correlation iii. Calculation of Pearson's Product-Mount iv. Correlation Coefficient (Two examples) v. Calculation of Spearman Rank order vi. Coefficient (Two examples) b. Parametric and Non-parametric tests i. Chi-square test (One-sample case only) ii. Student's t-test (Comparison of sample means)	10
9	Field Excursion/ Village Survey Report	a. One short tour of two days duration and preparation of tour report OR One long tour of more than five days duration anywhere in the country and preparation of tour report OR Village survey and preparation of report	20

Suggested Reading:

- 1. Aher A.B., Chodhari A. P. & Bharambe S.N. Techniques of Spatial Analysis Prashant Publication Jalgaon 2015
- 2. David Unwin, Introductory Spatial Analysis, Methuen, London, 1981.
- 3. Gregory, S. Statistical Methods and the Geographer, Longman, London, 1978.
- 4. Hammond R and P.S. McCullagh Quantitative Techniques in Geography: An Introduction, Clarendan Press, Oxford, 1974.
- 5. John P.Cole and Cuchlaine A. M. King, Quantitative Geography, John Wiley, London, 1968.
- 6. Johnston R. J., Multivariate Statistical Analysis in Geography, Longman, London. 1973.
- 7. Koutsoyiannis, Theory of Econometrics, Mcmillan, London, 1973.
- 8. Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.

- 9. Aronoff S. Geographic Information Systems: A Management Perspective, DDL Publication Ottawa. 1989.
- 10. Burrough P.A. Principles of Geographic information Systems for Land Resource Assessment Oxford University Press, New York.1986.
- 11. Fraser Taylor D.R. Geographic information Systems. Pergamon Press, Oxford.1991.
- 12. Maquire D. J. M.F. Goodchild and D. W. Rhind (eds.). Geographic information Systems: Principles and Application. Taylor & Francis, Washington. 1991.
- 13. Mark S Monmonier . Computer-assisted Cartography. Prentice-Hall, Englewood Cliff, New Jersey, 1982.
- 14. Peuquet D.J. and D.F. Marble, Introductory Reading in Geographic Information Systems. Taylor & Francis, Washington.1990.
- 15. Star J and J. Estes. Geographic Information Systems: An Introduction. Prentice- Hall, Englewood Cliff, New Jersey, 1994.
- 16. Peter Haggett, Andrew D. Cliff, & Allan Frey, Location Methods Vol. I and II, Edward Arnold, London, 1977.
- 17. Misra, R.P. and Ramesh, A. Fundamentals of Cartography, McMillan Co., New Delhi, 1986.
- 18. Pal, S.K. Statistics for Geoscientists Techniques and Applications, Concept, New Delhi, 1998.
- 19. Robinson, A.H. et al.: Elements of Cartography, John Wiley & Sons, U.S.A., 1995.
- 20. Sarkar A.: K Practical Geography: A Systematic Approach, Oriental Longman, Calcutta, 1997.
- 21. Singh, R.L. and Dutt, P.K.: Elements of Practical Geography, Kalyani Publishers, New Delhi,1979
- 22. Choudhar A. H., Choudhari J. V. Practical Geography, K. S. Publication, Pune (2013).

Savitribai Phule Pune University, Pune T.Y.B.A

Gg.: 310 Regional Geography of India (G-3)

June 2015

Objective: -

- 1. To acquaint the students with geography of our Nation.
- 2. To make the student aware of the magnitude of problems and Prospects at National level.
- 3. To help the students to understand the inter relationship between the subject and the society.
- 4. To help the students to understand the recent trends in regional studies.

SECTION - I

Topic	Sup Topic	Learning Points	Periods
Introduction	Location, Extent and	1.Historical Background	10
	Geopolitical Significance	2.Location and Extent	
		3. Relationship with Neighboring Countries	
		4. Geopolitical Importance of Indian Ocean.	
Physiography	Major Physiographic Regions	1. The Northern Mountains	12
	and their Importance	2. The North Indian Plains	
		3. The Peninsular Plateau	
		4. The Costal low lands	
		5.The Islands	
Drainage	Drainage System of India	1. The Indus, The Ganga, The Brahmaputra	12
	The Himalayan River System	2.East Flowing Rivers- Mahanadi, Godavari, Krishna, Kaveri.	
	The Peninsular River System	3. West Flowing Rivers- Narmada, Tapi, Mahi	
		4.Rivers of the Sahyadri - Amba & Damanganga	
Climate	Characteristics, Origin and	1. Characteristics of Indian Climate	11
	Mechanism of Monsoon,	2.Role of Various Controlling Factors on Climate of India	
	Various Seasons	3.Monsoon: Origin and Mechanism	
		4. Various Seasons and Weather Associated with them	
	Introduction Physiography Drainage	Introduction Location , Extent and Geopolitical Significance Physiography Major Physiographic Regions and their Importance Drainage Drainage System of India The Himalayan River System The Peninsular River System Climate Characteristics , Origin and Mechanism of Monsoon,	Introduction Location , Extent and Geopolitical Significance Physiography Major Physiographic Regions and their Importance Drainage Drainage Drainage Climate Characteristics , Origin and Mechanism of Monsoon, Various Seasons Drainage Location , Extent and 2. Historical Background 2. Location and Extent 3. Relationship with Neighboring Countries 4. Geopolitical Importance of Indian Ocean. 1. The Northern Mountains 2. The North Indian Plains 3. The Peninsular Plateau 4. The Costal low lands 5. The Islands 1. The Indus , The Ganga , The Brahmaputra 2. East Flowing Rivers- Mahanadi, Godavari, Krishna, Kaveri. 3. West Flowing Rivers- Narmada, Tapi, Mahi 4. Rivers of the Sahyadri - Amba & Damanganga 1. Characteristics of Indian Climate 2. Role of Various Controlling Factors on Climate of India 3. Monsoon: Origin and Mechanism

SECTION – II

5	Soils and		Types of Soils and its Distribution	12
	Natural	Types and Distribution	Soil Degradation and Conservation	
	Vegetation		Types of Natural Vegetation and its Distribution	

			Deforestation and Conservation	
6	Minerals and	Mineral Resources	1.Mineral Resources & its distribution Iron ore, Manganese, Bauxite,	12
	Energy		Copper	
	Resources	Energy Resources	2.Energy Resources-	
			a)Major Conventional & its Distribution Coal, Mineral Oil, Natural Gas	
			b)Non-conventional - Hydroelectricity, Solar energy, Wind energy,	
			Biogas, Atomic energy	
7	Agriculture	Significance and Recent	1. Significance of Agriculture in Indian Economy	11
		Trends in Agriculture	2. Green Revolution	
			3. White Revolution	
			4.Blue Revolution	
			5. Livestock Resources,	
			6. Tissue Culture & Horticulture	
			7. Poly House and Agriculture	
8	Planning and	Regional Planning and	1.Concept, Objectives, Need, Nature of Regional Planning	10
	Development	development	2.Experience of Regional Planning in India	
			3.Regional Development of Maharashtra	

Suggested Readings:

- 1. Aher A.B , Chaodhari A. P & Chaodhari Archna. Regional Geography of India Prashant Publication Jalgaon 2015
- 2. Deshpande C.D: India-A Regional Interpretation Northern Book Centre, New Delhi.1992.
- 3. Farmer, B.H.: An Introduction to South Asia. Methuen, London, 1983.
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- 9. Routray, J.K.: Geography of Regional Disparity Asian Institute of Technology, Bangkok, 1993.
- 10. Shafi, M: Geography of South Asia, McMillan & Co., Calcutta, 2000.
- 11. Singh, R.L.(ed.): India: A Regional Geography. National Geogphical Society. India, Varanasi, 1971.
- 12. Spate, O.H.K. and Learmonth, A.T.A.; India and Pakistan Land, People and Economy Methuen & Co., London, 1967.
- 13. P. G. Saptarshi, J. C. More, V. R. Ugale & A. H. Musmade : A Geographical Region of India : Diamond Publication (2009) (Marathi)
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- 16. Datt & Sunderm: Indian Economy (2014)

Savitribai Phule, Pune University, Pune T.Y.B.A (General Geography) G-3 Gg. 310:HUMANGEOGRAPHY From June 2015

Objectives:

- 1. This course is to acquaint the students with the nature of man-environment relationship and human capability.
- 2. To adopt and modify the environment under its varied conditions from primitive life style to the modern living;
- 3. To identify and understand environment and population in terms of their quality and spatial distribution pattern.
- **4.** To comprehend the contemporary issues facing the global community.

Section – I

Sr. No.	Topic	Learning Points	Periods
1	Introduction to Human Geography	a)Meaning and Definition of Human Geography. b)Nature, Scope and Importance of Human Geography, approach of Human Geography & Branches of Human Geography	10
2	Development of Human Geography	 a) Pre-historical Period. b) Medieval Period of Human Geography. c) Modern Period of Human Geography. d) Concepts of Determinism, Possibilism, Stop and Go Determinism 	13
3	Human Evolution and Races	 a) Stages of Human Evolution. b) Meaning and Definition of Human Race c) Bases of Human Race d) Griffith Taylor's Theory of Human Race e) Pure and Mixed Races 	12
4	Form of Adaptation to the Environment	a) Human life in Cold Region - ESKIMO b) Human life in Tropics - PYGMY and BUSHMEN	10

Section - II

5	Study of Indian	Regional Distribution of Tribes in India	
	Tribes	a) Bhill	11
		b) Gond	
		c) Naga	
		d) Tribes in Maharashtra	
6	Human Culture	a) World Languages & their distribution	
		b) World's Major Religions & their distribution	12
		d) Distribution of Languages & Religions in India	
7	Movement of	a) Meaning and Definition of Migration	
	Mankind	b) Type of Migration	11
		c) Causes & Effects of Migration	
		d) Migration in Modern Period	
8	Population &	a) World Population Distribution	11
	Resources	b) Effects of Population Growth on Natural	
		Resources	
		c) Malthus Theory of Population Growth	
		d) Population as a Resource	

Suggested Readings:

- 1. Aher A. B, Pail V. J. Human Geography Prashant Publication Jalgaon 2015
- 2. Aher A. B, Markad D.M. Human Geography Payal Publication Pune 2015
- 3. Bergwan, Edward E: Human Geography; Culture, Connections and Landscape, Prentice-Hall, New Jersey.1995.
- 4. Carr, M.: Patterns, Process and change in Human Geography. MacMillan Education, London,1987.
- 5. Fellman, J.L.: Human Geography—Landscapes of Human Activities. Brown and Benchman Pub., U.S.A., 1997.
- 6. DeBlij H.J.: Human Geography, Culture, Society and Space John Wiley, New York, 1996.
- 7. Johnston, R.J. (editor).: Dictionary of Human Geography Blackwell, Oxford, 1994:
- 8. Mc Bride, P.J.: Human Geography Systems, Patterns and Change, Nelson, U.K. and Canada,1996.
- 9. Michael, Can: New Patterns: Process and Change in Human Geography Nelson, 1997
- 10. Rubenstein, J.H. and Bacon R.S.: The Cultural Landscape an Introduction to Human Geography. Prenice Hall, India, New Delhi, 1990.
- 11. Singh, K.N.: People of India, An introduction Seagull Books, 1992
- 12. Spate O.H.K. and Learmonth A.T.A.: India and Pakistan Methuen, London.1968.
- 13. U. V. Jagdale & P. G. Saptarshi: Human Geography (2007), Diamond Publication (Marathi)

SAVITRIBAI PHULE UNIVERSITY OF PUNE T.Y.B.A. GEOGRAPHY

Gg-320 – AGRICULTURAL GEOGRAPHY (S-3)

From June – 2015

- Objectives: 1. To Introduce students Agricultural activities and its relation with Geography.

 2. To Familiarize the students with new modern technical methods and their applications in Agricultural activities.

 3. To enable students to apply Previously knowledge in Problems and Prospects in agriculture

Section- I

Sr. No.	Topic	Units	Sub Units	Period s
1	Introduction of	A. Meaning ,Nature &	Definition, Nature & Scope of Agricultural	
	Agricultural	Scope	Geography Approaches	
	Geography	B . Approaches	1. Regional approach	
			2. Systematic approach	12
			3. Commodity approach	
			4. Recent approaches	
		C. Importance	Importance of Agriculture in Indian Economy	
		D. Trends	Recent Trends in Agriculture Geography	
2	Determinates	A. Physical Factors	1.Relief 2.Climate 3.Soil	
_	of Agriculture	B. Economic Factors	1.Capital, 2.Transportation	
	of Agriculture	B. Economic Pactors	3.Market, 4.Storage, 5. Export Import	
		C. Social Factor		
		C. Social Factor	1.Land holding, 2.Land fragmentation	
			3. Labour, 4.Traditional Methods	
			5. Farmers view towards agriculture	
		D. Technological Factors		15
			2.Mechanization	
			3.Manures, Fertilizers	
			4.Pesticides	
3	Types of	Characteristics of	1.Shifting Cultivation	
	Agriculture	A. Subsistence	2.Dry land farming	
	8	Agriculture	3.Intensive Subsistent farming	
		1 igi iculture	5.Intensive Subsistent lai lining	
		B. Commercial Farming	1.Mixed farming	
		2. Commercial Landing	2.Horticulture / Truck farming	10
			3. Community farming	10
			5. Community farming	
4	Problems &	Problems and Prospects	1.Natural	
	Prospects of	with Indian examples	2.Economical	
	Agriculture		3.Social	08
			4.Political	
			Section II	
5	Role of	A. Need of Irrigation	1.Importan of irrigation	
	irrigation in	B. Types of Irrigation	1.Canals	
	Agricultural		2.Lake	
	Development		3.Well	12
			4.Borewell & Tube well	
		C. Methods of	1.Flood irrigation	
		Irrigation	2.Ring &Basin	
			3.Drip irrigation	
			4.Sprinkler irrigation	
6	Dry Land	A. Concept & Need	1.Concept & Need, Dry Land Farming	+
U	farming And	A. Concept & Need	Management in India	
	Watershade	D M-41-1-C	2. Concept of Watershed Management	
	Management	B. Methods of	Methods:	15
		Watershed	1. Continuous Contour Tranches (CCT)	
		Management	2.Gabian Bunds, 3.Nala Bunding	
			4. Biological Bunds, 5. Kohlapur Type (K.T.) weir	

			6. Vanrai Bunds, 7. Perculation Tanks	
			8.Farm Lake / Ponds, 9. Dams, 10. Barrages	
7	Allied Areas in	Concept of	1.Dairy farming 2.Poultry	
	Agriculture &	Agricultural	3. Sheep and Goat farming 4. Nursery	
	Agriculture	Development with	5.Api Culture 6. Fish Farming	
	Development	new Techniques	6.Poly houses 7.Tissue Culture	10
			8.Food & Fruit Processing 9.Agro-Tourism	
8	Sustainable	A. Ecological	1.Waste Land Management	
	Agricultural	Conservation	2.Organic farming	
	Development		3.Crop rotation	08
	and Agriculture		4. Group Plantation	
	in India		5.Pest and Weed Management	
			6.Agro Forestry	
		B. Characteristic	1.Green Revolution in India-Problems	
		s of Indian	Associated with Indian Agriculture	
		agriculture	2. National Agricultural Policy	
			3. Various Schemes of Central and State Govt. for	
			Agricultural Development and Farmers	

Suggested Readings

- 1. Aher A. B., Salunkhe V. Agriculture Geography, Diamond Publication, Pune (2015)
- 2. Bayliss Smith, T.P.: The Ecology of Agricultural Systems. Cambridge University Press, London, 1987.
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- 4. Brown, L.R.: The Changing World Food Prospects The Nineties and Beyond. World Watch Institute, Washington D.C., 1990.
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- 6. Gregor, H.P.: Geography of Agriculture. Prentice Hall, New York, 1970.
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- 15. Wigley, G.(1981), Tropical Agriculture: The Development of Production, 4th edition, Arnold, London
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Savitribai Phule, Pune University, Pune T.Y.B.A

Gg-320: Population and Settlement Geography (S-3) Effective from-June-2015

Objective:-

- 1. To provide an understanding of spatial and structural dimensions of population
- 2. To familiarizing the students with global and regional level problems.
- 3. To acquaint the students with the spatial, political and structural characteristics of human settlement under varied environmental conditions.

Section-A. Population Geography

Unit No.	Topic	Sub Topic	Learning Points	Periods
1	Introduction	Nature and Scope	Definitions, Nature and Scope of Population Geography	10
		Source of Population Data	Census, National Sample Survey, Sample Registration Survey, NFHS, DLHS Data, Demographic Surveys and other Sources	
2	Population Dynamics	Spatial Pattern of Distribution	 Determinates of Distribution and Density of Population Distribution of Population – World & Indian Scenario Population Growth- Global & Indian Trend 	10
		Composition of Population	Population Composition: Age and Sex, Rural-Urban & Economic	
3	Demographic Attributes	Human Migration	Migration-Classification, Determinants and Consequences of Migration. 2.Measures – Fertility, Morbidity and Mortality, Marital Status 3.Human Development Index 4. Illegal Migrations and its Impacts Migration and its Impacts on Smarts Cities and Smart Villages	14
		Theories of Population Growth	Demographic Transition Model [DTM] Malthus: Population Theory	
4	Population Policies	Population Policies and Programmes	1.Population Policies in the Context of Growth, Structure, Distribution &Quality Life 2. Evolution of Family Welfare Programme in India 3.National Population Policies in India [After 1991]	11

Section-B- Settlement Geography

5	Introduction of Settlement	Definition, Nature and Scope	Definition, Nature and Scope of Settlement Geography	12
	Geography	Characteristics	 Characteristics of Settlement Geography Branches of Settlement Geography 	
6	Man-	Factors Influencing	1. Physical	
	Environment	the Growth	2. Economic	10
	Relationship	and Distribution of	3. Social	
		Settlements.	4. Political	
7	Settlement	Site and Structure	Site, Situation, Type, Size, Spacing and Patterns	12

	Site and		of Settlements	
	Structure			
8	Concepts of	Various Concepts	1. Urbanization	
	Settlement	with examples	2. Centrality	
	and		3. City Region	
	Urbanization		4. Urban Fringe	
			5. Rank-size Rule	11
			6. Smart City Concept	
			7. Smart Village	
			8. C.B.D.	
			9. Hierarchy of Settlement	

Suggested Readings

- 1. Beaujeu-Garnier, J.: Geography of Population (Translated by Beaver, S.H.) Longmans, London, 1966.
- 2. Census of India 2001 Series-I India Provisional Population Totals. Published by Registrar General & Census Commissioner, India, 2001.
- 3. Census of India, 1991 India: A State Profile Published by office of the Registrar General of India, Census Operations, New Delhi.
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- 7. Peters: G.L. and Larkim R.P. Population Geography: Problems, Concepts and Prospects Kendele-Hunt Iowa, 1979.
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- 10. Trewartha, G.T.: The More Developed Realm: A Geography of its Population, Pergamon Press, Oxford, 1978.
- 11. Trewartha, G.T.: The Less Developed Realm A Population Geography, McGraw-Hill, New York, 1972.
- 12. UNDP: Human Development Report, Oxford University Press 2001.
- 13. Zelinsky, W.: A Prologue to Population Geography, Prentice-Hall, Englewood Cliffs, 1966.
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- 15. Chisholm, M.: Rural Settlement and Land Use, Hutchinson, London, 1970.
- 16. Clout, R.D.: Rural Geography, Pergamon Press, London, 1970.
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- 21. Mukerji, R.K.: Man and His Habitation, Popular Books, Bombay, 1968.
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- 23. Perpillou, A.: Human Geography, Longmans, London, 1966.
- 24. Singh, R.L.: Readings in Rural Settlement Geography, Banaras Hindu University, Department of Geography, Varanasi, 1972.