

UNIVERSITY OF PUNE
Revised structure of Syllabus for B.A. Geography to be effective from June, 2008

F.Y.B.A. – June, 2008
S.Y.B.A. – June, 2009
T.Y.B.A. – June, 2010

F.Y.B.A.		
G-1	Gg-110	Physical Geography

S.Y.B.A.		
G-2	Gg-210	Geography of Human Resources
		OR
G-2	Gg-210	Geography and Natural Hazards
S-1	Gg-220	India : A Geographical Analysis
		OR
S-1	Gg-220	China : A Geographical Analysis
S-2	Gg-201	Fundamentals of Geographical Analysis

T.Y.B.A.		
G-3	Gg-310	Geography of Tropical Agriculture
		OR
G-3	Gg-310	Geography of Travel and Tourism
S-3	Gg-320	Fundamental Concepts in Geography
		OR
S-3	Gg-320	Contemporary Issues and Geography
S-4	Gg-301	Techniques of Spatial Analysis

University of Pune
Syllabus Equivalence of T.Y.B.A Geography
From June 2010

Sr. No	Course Code	Old Structure		Revised Structure
1.	G-3 Gg-310 G-3 Gg-310	Resource and Environment Or Geography of Tourism	G-3 Gg-310 G-3 Gg-310	Geography of Tropical Agriculture Or Geography of Travel and Tourism
2.	S-3 Gg-320 S-3 Gg-320	Fundamentals of GIS Or Geography of India	S-3 Gg-320 S-3 Gg- 320	Fundamental Concepts in Geography Or Contemporary Issues and Geography
3.	S-4 Gg-301	Map Reading and Statistical Methods	S-4 Gg-301	Techniques of Spatial Analysis

UNIVERSITY OF PUNE
TYBA (Geography – S-4)
Gg. 301: Techniques of Spatial Analysis

Six periods - Per Batch of 12 Students
From June 2010

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.

Section - I			
SOI Toposheets, Weather Instruments and IMD Weather Maps			
Unit No.	Unit	Sub Unit	No. of periods
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: 1000000/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	09
2	Profile	a. Vertical exaggeration b. Drawing and description of cross profile of any region c. Drawing and description of longitudinal profile of a road or a river	09
3	Toposheet reading	a. Reading of at least three SOI toposheets one each for plain, plateau and mountainous/hilly region b. One day field excursion for orientation of toposheet, observation and identification of geographical features and preparation of a brief report	15
4	Weather instruments (Mechanism, Functions and Usages)	a. Measurement of temperature i. Simple thermometer ii. Maximum and minimum thermometer iii. Thermograph b. Measurement of humidity i. Dry and wet bulb thermometer ii. Hygrograph c. Measurement of precipitation i. Rain gauge d. Measurement of air pressure	09

		<ul style="list-style-type: none"> i. Aneroid barometer ii. Barograph 	
		e. Measurement of wind direction and velocity <ul style="list-style-type: none"> i. Wind vane ii. Cup anemometer 	
5	Weather maps	<ul style="list-style-type: none"> a. Introduction to weather maps b. Symbols in Daily weather report used by India Meteorological Department (IMD) 	03
6	Isobaric patterns	a. Drawing of isobaric patterns and associated weather- cyclone, anticyclone, ridge, trough, wedge, secondary depression, col	06
7	Weather map reading	<ul style="list-style-type: none"> a. Reading of weather map of three seasons <ul style="list-style-type: none"> i. summer ii. Monsoon iii. winter b. One day visit to nearby weather station of IMD 	06
Section II			
Statistical Techniques			
8	Geographical data	<ul style="list-style-type: none"> a. Spatial and Temporal data b. Discrete and Continuous series c. Grouped and Ungrouped data 	06
9	Measures of central tendency	<ul style="list-style-type: none"> a. Meaning and description of central tendencies- Mean, Mode, Median b. Calculation of Mean, Mode, Median for ungrouped and grouped data (two examples each) 	12
10	Measures of dispersion	a. Variance and Standard deviation for ungrouped and grouped data (two examples each)	12
11	Testing of hypothesis	<ul style="list-style-type: none"> a. Meaning and definition(s) of <ul style="list-style-type: none"> i. Null and Alternative hypothesis ii. Level of significance (Rejection level) iii. Degrees of freedom iv. Parametric and Non-parametric tests b. Application of following tests <ul style="list-style-type: none"> i. Chi-square test (One-sample case only) ii. Student's t-test (Comparison of sample means) 	15
12	Correlation and Regression	<ul style="list-style-type: none"> a. Concept of bivariate correlation and regression b. Meaning of coefficient of correlation c. Calculation of Pearson's Product-Method Correlation Coefficient (Two examples) d. Calculation of Spearman Rank order Coefficient (Two examples) 	15
13	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	--

Notes:

1. Use of Map Stencil, log table, calculator and computer are allowed.
2. Journal should be completed and duly certified by practical In-charge and Head of the department.

3. Candidate should not be allowed for examination without certified journal and tour report/village

survey report.

Reference books:

1. Ahirrao, D. Y. and Karanjkehele, E.K., 2002. Pratyakshik Bhugol, Sudarshan Publication, Nashik.
2. Ebdon, D., 1977. Statistics in Geography: A Practical Approach, Basil Blackwell, Oxford.
3. Hammond, R. and McCullagh, P.S., 1977. Quantitative Techniques in Geography: An Introduction, Clarendon Press, Oxford.
4. Jog, S.R. and Saptarshi, P.G., 1980. Sankhiki Bhugol, Narendra Publications, Pune.
5. Karlekar, S.N. and Kale, M., 2006. Statistical Analysis of Geographical Data, Diamond Publications, Pune.
6. Kumbhar, A., 2000. Pratyakshik Bhugol, Sumeru Publications, Mumbai.
7. Lutgens, F.K. and Tarbuck, E.J., 2007. The Atmosphere. Prentice Hall, Englewood Cliffs, New Jersey, USA.
8. Monkhouse, F.J. and Wilkinson, H.R., 1971. Maps and Diagrams. Methuen and Co. Ltd., London. UK.
9. Ramamurthy, K., 1982. Map Interpretation, Rex Printers, Madras.
10. Siddhartha, K., 2006. Geography Through Maps, Kisalaya Publications Pvt. Ltd, New Delhi.
11. Singh, G., 2005. Map Work and Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi.
12. Singh, L.R. and Singh, R., 1973. Map Work and Practical Geography, Central Book Depot, Allahabad.
13. Singh, R.L., 2005. Elements of Practical Geography. Kalyani Publishers, New Delhi.
14. Singh, R.L., and Dutt, P.K., 1968. Elements of Practical Geography, Students' Friends, Allahabad.
15. Strahler, A.A. and Strahler, A. N., 2002. Physical Geography: Science and Systems of the Human Environment, John Wiley & Sons, INC.
16. Strahler, A.H. and Strahler, A. N., 1992. Modern Physical Geography, John Wiley & Sons, INC.
17. Strahler, A.N., 1965. Introduction to Physical Geography, John Wiley & Sons, INC.
18. Websites of internet.
19. Dr. P. G. Saptarshi and dr. S. R. Jog (1991) Statistical Methods (Marathi).

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T.Y. B.A. (G-3)

Gg – 310 : GEOGRAPHY OF TROPICAL AGRICULTURE

From June 2010

Section - I

Sr. No.	Topics	Subtopics	Subunits	Periods
1.	Introduction to Agricultural Geography	1. Meaning Nature and scope 2. Approaches to study the Agriculture Geography	1. Nature scope and significance of Agricultural Geography – 2. Approaches 1) Systematic approach 2) Commodity approach 3) Regional approach 4) Recent approach.	10
2.	Significance of Agriculture	Role of agriculture in Tropical region	1. Significance of agriculture in Tropical region 2. Importance of agriculture in the Indian economy.	04
3.	Determinants of Agriculture in Tropical Region.	Physical, economic, social and technological factors.	1. Relief, climate, soil 2. Land holding, marketing, transport 3. Irrigation 4. Mechanization. 5. Biochemical inputs (Manures, Fertilizers and Pesticides)	08
4.	Agricultural types in Tropical Region	Subsistence and commercial agriculture their characteristics and problems	1. Shifting cultivation 2. Intensive subsistent farming. 3. Mixed farming 4. Plantation agriculture	08
5.	Problems and Prospects of Tropical Agriculture	Problems	1) Droughts over irrigation 2) Over Irrigation 3) Land Fragmentation 4) Marketing	05
6.	Role of Irrigation in Tropical Agriculture	1. Need of irrigation 2. Types of Irrigation	1. Importance of irrigation in tropical agriculture 2. Types of irrigation: Canals, Tanks, Well, Bore-well. 3. Methods of irrigation: Drip-irrigation, Sprinkler irrigation and Flow irrigation	05
Section - II				
7.	Dry land Farming	Definition, concept and characteristics	Definition, concept and characteristics of dry land farming; Extent and significance of dry land farming in Indian agriculture.	06

8.	Watershed Management	1. Concept 2. Methods of watershed management	1. Concept of watershed management. 2. CCT, Kitiware, Nala Bunding.	06
9.	Allied areas in agriculture and Agricultural Development	A) Role of allied areas of agriculture in Tropical region B) Modern techniques used in Tropical Agriculture	Dairy farming, Poultry, Sheep and goat farming Agro –Tourism, Bee keeping, Nursery Biotechnology Poly houses Tissue culture Food processing	12
10.	Sustainable Agricultural Practices in Tropical Region	Ecological conservation.	Organic farming, Crop rotation and group plantation, pest, weed management	04
11.	Agriculture in India	Land-use pattern and regional pattern of productivity in India	Green revolution, wasteland development. Emerging Issues: 1.) Food security 2) Employment in agriculture sector: land-less labours, types of workers. 3) Precision Farming – Use of modern technology: Remote Sensing, GIS and GPS 4) Corporate farming.	12

Reference Books:

1. Baylis Smith T.P. (1987), “The Ecology of Agricultural System”, Cambridge University Press, London
2. Gregory H. P. (1970), “Geography of Agricultural”, Prentice Hall New York
3. Hartshorn T. N. and Alexander J.W. (1988), “Economic Geography”, Prentice Hall
New York
4. Terrnt J. R. (1974), “Agricultural Geography”. Wiley Publications, New York
5. L. J. Symon (1978), “Agricultural Geography”, Bell and hyman, London
6. Husain, Majid. (1999), “Agricultural Geography”, Rawat Pub. New Delhi
7. Singh, J. and Dhillon, S.S. (1984), “Agricultural Geography”, 2nd edition, Tata McGraw-Hill, New Delhi.
8. Wigley, G. (1981), Tropical Agriculture: *The Development of Production*, 4th edition,
Arnold, London.

9. Saptarshi P. G., More J. C., Ugale V.R., Musmade A. H. (2009), "India A Geographical Analysis". Diamond, Pune.

UNIVERSITY OF PUNE
T.Y., B.A.

Gg 310: Geography of Travel and Tourism – G-3

From June 2010

SECTION – I

Sr. No.	Topic	Subtopic	Learning Points	Periods
1.	Nature and Scope	(A) Definition and Nature (B) Scope and Extent (C) Concept of tourism-	1) Definition of Tourists and Tourism. 2) Relation between Geography and Tourism. 3) Importance of Tourism. 4) Concept of recreation and Leisure. 1) Tourism and Travel as basic needs of mankind. 2) Tourism and Development. 3) Tourism as product 4) Tourism Promotion 1) Ecotourism 2) Agro-tourism 3) Heritage tourism 4) Adventure tourism	08
2.	Factors affecting Tourism Development	(A) Physical (B) Cultural	1) Relief-Mountain, Lakes, Beaches, Coasts, Water fall, Hot springs. 2) Climate- Hill station, Health resorts. 3) Vegetation-National parks and Sanctuaries. 1) Religions and Pilgrimage centres. 2) Historical monuments. 3) Centres of tribal culture folk and festival. 4) Temples. 5) Sports centres. 6) Dams and reservoirs. 7) Major industrial Town and Planned cities. (Example related to India).	08
3.	Classification of tourists	(A) Nationality (B) Time of Travel (C) Travel Distance (D) Number of Tourists (E) Purpose of Travel	1) International. 2) Domestic. 1) Long haul, short haul, holiday tourists, day trippers. 1) Global, continental, Regional and local. 1) Individual and groups. 1) Recreation, Heritage, Nature, Religious, Health, Sports.	08
4.	Role of Transportation	(A) Mode of Transportation.	1) Air, Rail, Road Water Ways.	08

	in Tourism	(B) Agencies and Guides	1) World Organizations, National organisations 2) Private agencies.-National, International 3) Role of guides in tourism. 4) Licensing and recognition of guides. 5) Training Programme for Guides.	
5.	Role of Accommodation in Tourism	Accommodation Types	1) Hotels, Motels, inn, Saraies, Dharmshalas. 2) Govt. Accommodation, Tourist homes. 3) Youth Hostels, Cottages, Tents, Caravans. 4) Rail Yatri Bhavan, House Boats 5) Private accommodations and unrecognized accommodations.	08

SECTION – II

6.	Impact of Tourism	(A) Economic impact (B) Physical and Environmental impacts (C) Social-cultural impacts	1. Tourism as an economic activity a) Effect on foreign exchange. b) Employment generation. c) Increase in trading activities. d) Increase in Land values. e) Increase in Govt. revenues. f) Infrastructure development a). Land Degradation b). Coastal pollution c). Loss plants and animals life d). Solid Waste and Littering e). Deforestation and forest fire f). Air and water pollution a). New colonialism b). Crime and Gambling activities c). Religion d). Language e) Health f) Traditional arts	15
7.	Development and Planning	(A) Levels of Planning (B) Tourism Planning in India	a). International level planning , National level planning, Regional and Local planning a). Development of tourism in India and Maharashtra b). Tourism policies of India and Maharashtra	08
8.	Evaluation of Potentials and Tourism	Assessment of regions ability to attract tourists	a) Physical factors b) Cultural factors c) Social factors.	08
9.	Case studies of Major Tourist Centers	(A) Hill stations (B) Beach points (C) Historical centres	Mahabaleshwar and Shimala Dive-Agar and Kalangut (Goa) Rigarh, Janjira, Tajmahal	09

	(D) Caves and Temples	Ellora, Tirupati Temple	
	(E) Religious Centres	Shirdi, Vaishnav devi	
	(F) National Parks	Melghat, Kaziranga, Bhimashankar, Gir.	
	(G) Dams	Nathsagar and Sardar Sarovar	

Reference Books:

1. A Geography of Tourism: Robinson H. (1996)
2. Tourism Development, Principles and Practices: Bhatia A.K., Sterling Publisher Ltd., New Delhi
3. Geography of Tourism and Recreation: S. N. Singh (1985)
4. Tourism Today: A Geographical Analysis: Douglas Pearce (1987)
5. Tourism: Economic Physical and Social Impact: Mathieson A. and Wall C, Logman, U.K.
6. India : A Tourist Paradise: Manoj Das.
7. Tourism Today: An Indian Perspectives: Maneet Kumar
8. Geography of Travel and Tourism: Hudman L.E.
9. Successful Tourism Management: Seth P.N. (1985) Sterling Publisher Ltd., New Delhi.
10. Tourism Analysis: Smith S.L.J.
11. Tourism in India: Gupta V.K.
12. Dynamics of Tourism: Kaul R. N., Sterline Publisher Ltd.
13. Geography of Tourism: S.B. Shinde, Phadke Prakashan, Kolhapur 2

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SECTION I				
Sr. No.	Topic	Subtopic	Learning Points	Periods

T.Y.B.A. (S-3)
Gg-320: Fundamental Concepts in Geography
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1	Development of Geographical Thought	Historical development Concepts	Contributions of different scholars: Herodotus, Ptolemy, Al- Masudi, Immanuel Kant, Friedrich Ratzel, Ellsworth Huntington Principle of Unity in diversity, Die Erdkunde, Principle of terrestrial unity	14
2	Concepts in Physical Geography	Basic Mechanisms of climatic change and sea level changes	1. Davis cycle of erosion 2. Climate change: External and Internal causes 3. Causes and consequences of sea level changes 4. Weather forecasting	12
3	Concepts in Human Geography - I	Population Settlement	Demographic transition Characteristics of CBD, Rural urban fringe and growth of satellite towns	14
SECTION II				
4	Concepts in Human Geography - II	Economic Geography Agriculture Geography Political Geography	Measures of economic development, Levels of Development: Rostow's and Weber's models. Von Thunen Model of land use Concept of Nation- State, Frontiers and boundaries Heartland and Rimland, Geopolitics	14
5	Dualism in Geography	Dualism and Dichotomies in Geography	1. Determinism and Possibilism 2. Systematic versus Regional Geography 3. Physical versus Human Geography	12
6	Modern theme in Geography	Major themes Modern thought	1. Positivism, Functionalism, Existentialism, Idealism, Realism, Marxism. 2. Applied geography, Sustainable Development and Globalisation	14

Reference Books:

1. Coffey, W. J. (1981): Geography: Towards a general spatial systems approach, Methuen, London.
2. Dixit R. D. (1997): Geographical Thought- A contextual history of ideas, Prentice-Hall of India, New Delhi
3. Frazier, J. W. (1982): Applied Geography, Prentice Hall, Englewood Cliffs

4. Hartshorne, R. (1959) Perspectives on Nature of Geography, Rand McNally and Co.
5. Husain, M. (1995): Evolution of Geographical Thought. Rawat Pub. Jaipur
6. Husain, M. (1995): Models in Geography. Rawat Pub. Jaipur
7. Knowles P and Wareing J: Economic and Social Geography, Rupa Publication
8. Lillesand T.M. and Kiefer R.W. (2002), Remote Sensing and Image Interpretation, John Wiley and Sons, New Delhi.
9. P. A. Burrough and R. A. McDonnell, Principles of Geographical Information System, 2000, Oxford University Press.
10. Smith, David, M, (1971): “Industrial Location- An Economic Geographical Analysis”, John Wiley and Son, New York.

UNIVERSITY OF PUNE
TYBA (Geography – S-3)
Gg. 320: Contemporary Issues and Geography
From June 2010

Objectives:

1. To introduce students with contemporary issues and its relation with Geography.
2. To create awareness and develop attitudes and values among the students about a range of geographical issues concern to people at different times and places.

3. To enable students to apply previously acquired knowledge and skills to suggest possible solutions and participate in problem-solving.

Section I				
Unit No.	Unit	Sub Unit		No. of periods
1	Introduction to Contemporary issues and Geography	a.	Meaning and definition of contemporary issues	08
		b.	Nature of contemporary issues in Geography	
		c.	Importance of study of contemporary issues in Geography	
2	Geomorphic issues	Causes and effects of		08
		a.	Landslides	
		b.	Weathering	
3	Climatic issues	Causes and effects of		08
		a.	Floods	
		b.	Droughts	
		c.	Cyclones	
		d.	Ozone depletion	
4	Oceanic issues	Causes and effects of		08
		a.	Tsunamis	
		b.	El Nino and La Nino	
		c.	Marine pollution	
5	Biological issues	Causes and effects of		08
		a.	Deforestation	
		b.	Forest fire	
		c.	Epidemics	
Section II				
6	Population issues	Causes and effects of		08
		a.	Over population	
		b.	Migration	
		c.	Energy crisis	
7	Economic issues	Causes and effects of		08
		a.	Poverty	
		b.	Globalization and Liberalization	
		c.	Regional disparity	
8	Social issues	Causes and effects of		08
		a.	Terrorism	
		b.	Conflicts due to race, religion and caste	
		c.	HIV/AIDS	
9	Political issues	Causes and effects of		08
		a.	Wars Extremists Activity	
		b.	Infiltration in India	

		c.	Water politics	
		d.	Nuclear weapons	
10	Case studies of contemporary issues	a.	Tsunami in Indian Ocean - 2004	08
		b.	Swine flu in Maharashtra	
		c.	Farmers suicides in Maharashtra	

Reference books:

1. Bloom, A.L., 1998. Geomorphology. A Systematic Analysis of Late Cenozoic Landforms. Pearson Education (Singapore) Pte. Ltd.
2. Hamblin, W.K., 1989. The Earth's Dynamic Systems, Macmillan Publishing Company, New York.
3. Kale, V.S. and Gupta, A., 2001. Introduction to Geomorphology, Orient Longman, Calcutta.
4. Singh, S., 1998. Geomorphology, Prayag Pustak Bhavan, Allahabad.
5. Lutgens, F.K. and Tarbuck, E.J., 2007. The Atmosphere. Prentice Hall, Englewood Cliffs, New Jersey, USA.
6. Strahler, A.A. and Strahler, A. N., 2002. Physical Geography: Science and Systems of the Human Environment, John Wiley and Sons, INC.
7. Ross, D. A., 1988. Introduction to Oceanography. Prentice Hall, New Jersey.
8. Huggett, D.A., 2004. Fundamentals of Biogeography, Routledge.
9. Chandna, R. C., 2000. A Geography of Population, Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi.
10. Knox, P. and Agnew J., 1998. The Geography of the World Economy, Arnold, London.
11. Saptarshi P. G., More J. C., Ugale V. R. (2009), "Geography and Natural Hazard" Diamond, Pune.