

SavitribaiPhule Pune University

(Formerly University of Pune)

S.Y.B.A. (Geography) Correction

Choice Based Credit System Syllabus

To be implemented from Academic Year 2020-2021

Semester	Core	Paper	Paper	Subject	Total	Credit
	Courses	No	Code		Lecture	
	Geography	G2	Gg:	Environmental Geography	48	3
	CC-1C		201(A)	Ι		
				OR		
				Economic Geography -I		
	Geography	S 1	Gg:	Geography of Maharashtra	48	3
III	DSE – 1A		220(A)	- I		
				OR		
				Population Geography – I		
	Geography	S2	Gg:	Practical Geography – I	60	4
	DSE - 2A		210(A)	(Scale and Map		
				Projections)		
	SEC-I		SEC -	Introduction to	30	2
			А	Geographical Information		
				System (GIS) /		
				Applied Course of Disaster		

CBSE: 2020-21			S	.Y.B.A.	Ge	eography
				Management		
	Geography	G2	Gg:	Environmental Geography	48	
	CC-1C		201(B)	II		
				OR		
				Economic Geography -II		
	Geography	S 1	Gg:	Geography of Maharashtra	48	3
IV	DSE - 1B		210(B)	- II		
				OR		
				Population Geography – II		
	Geography	S2	Gg:	Practical Geography – II	60	4
	DSE - 2B		220(B)	(Cartographic Techniques,		
				Surveying and Excursion /		
				Village / Project Report)		
	SEC-I		SEC -	& Introduction to Remote	30	2
			В	Sensing /		
				Applied Course of Travel		
				& Tourism		

S. Y. B. A. GEOGRAPHY

	Equivalence of Previous sylla	abus along with new syllabus:			
Pager	Old Course (2013 Annual Pattern)	New Course (2019 Semester Pattern)			
G2	Gg-210 Elements of Climatology and Oceanography OR	Gg: 210(A)Environmental Geography I OR Gg: 210(A)Economic Geography -I			
G2	Gg-210 Geography of Disaster Management	Gg: 210(B)Environmental Geography II OR Gg: 210(B)Economic Geography -II			
S1	Gg-220 Economic Geography OR	Gg: 220(A)Geography of Maharashtra - I OR Gg: 220(A) Population Geography – I			
S1	Gg-220 Tourism Geography	Gg: 220(B) Geography of Maharashtra – II OR Gg: 220(B) Population Geography – II			
S 2	Gg-201 Fundamentals of	Gg: 201(A)Practical Geography – I (Scale and Map Projections)			
S2	Geographical Analysis	Gg: 201(B)Practical Geography – II (Cartographic Techniques, Surveying and Excursion / Village / Project Report)			

S.Y.B.A. Geography (G2) Syllabus for Semester III

Name of Subject: Environment Geography- I, Subject Code: Gg.210 (A) Objectives:

- 1. To create the awareness about dynamic environment among the student.
- 2. To acquaint the students with fundamental concepts of environment geography for development in different areas.
- 3. The students should be able to integrate various factors of Environment and dynamic aspect of Environmental geography.
- 4. To make aware the students about the problems of environment, their utilization and conservation in the view of sustainable development

Course Outcome:

- 1. Create awareness about dynamic environment among the student.
- 2. To acquaint the students with fundamental concepts of environment geography for development in different areas.
- 3. The students should be able to integrate various factors of economic development and dynamic aspect of economic geography.
- 4. To make aware the students about the problems of environment, their utilization and conservation in the view of sustainable development.

Sr. No.	Торіс	Sub Topics	Teaching Hours	Total Credits
1	Introduction to Environmental Geography	 Definition, Nature and scope of Environmental Geography. Types of Environment Importance of Environmental Geography Approaches to study of environmental Geography 	12	
2	Ecosystem	 Meaning, concept and definition of ecosystem. Structure (Biotic and Abiotic factors) and food chain, Tropic Level, food web, energy flow Types of ecosystem a) Equatorial Forest and b) Pond Ecosystem 	12	03
3	Biodiversity and its conservation	 Concept of biodiversity Economic value and potential of biodiversity Loss of biodiversity and hotspots in India Conservation of biodiversity 	12	
4	Environmental Pollution	 Concept of Pollution Air pollution-Causes, effects and control measures Water pollution-Causes, effects and control measures Soil pollution-Causes, effects and control measures 	12	

- Miller G.T., 2004, Environmental Science Working with the Earth, Thomson Books Cole, Singapure
- 2. Saxena H.M., 2017, Environmental Geography(Ed III), Rawat Publicastions, Jaipur
- 3. Odum E.P. et al.2005, Fundamentals of Ecology, Ceneage Learning, India
- 4. Sharma P.D.2015, Ecology and Environment, Rastogi Publications, Meerut
- 5. Kormondy, Edward J, 2012, Concept of Ecology, PHI Learning Pvt.Ltd, New Delhi
- 6. Singh R.B.(Eds) 2009, Biogeography and Biodiversity, Rawat Publications, Jaipur
- 7. Singh S, Prayag, 1997, Environment Geography, Pustak Bhawan, Allahabad
- 8. Chandana R.C.2002, Environmental Geography, Kalyani Publication, Ludhiana
- 9. Goudie A, 2001, The Nature of The Environment, Blackwell, Oxford
- 10. Gholap T. N., 2000, Environment Science, Nishikant Publications, Pune. (Marathi)
- 11. Choudhar A.H., & et. al., 2014, Disaster Management, Atharva Publication, Pune. (Marathi)
- 12. Musmade A. H., More J. C. 2014, Geography of Disaster Management, Diamond Publication, Pune. (Marathi)
- 13. Saptarshi P. G., More J. C., Ugale V. R., 2009, Geography and Natural Hazads, Diamond Publishing, Pune. (Marathi)

S.Y.B.A. Geography (G2) Syllabus for Semester IV

Name of Subject: Environment Geography- II, Subject Code: Gg.210 (B) Objectives:

- 1. To create awareness about dynamic environment among the students.
- 2. To acquaint students with the fundamental concepts of Environment Geography.
- 3. To acquaint students about the past, presents and future utility and potentials of natural resources.
- 4. To make aware students about the problems of environment, its utilization and conservation in the view of sustainable development.

Course Outcome:

- 1. Create awareness about dynamic environment among the students.
- 2. To acquaint students with the fundamental concepts of Environmental Geography.
- 3. To acquaint students about the past, presents and future utility and potentials of natural resources.
- 4. To make aware students about the problems of environment, its utilization and conservation in the view of sustainable development.
- 5.

Sr.	Торіс	Sub Topics	Teaching	Total			
No.			Hours	Credits			
1	Environmental	1. Meaning and concepts of					
	Disaster	environmental disaster					
		2. Classification of Disaster					
		3. Natural Disaster	12	03			
		a) Earthquake b) Flood	12	05			
		4. Biological Disaster					
		a) Swine flu b) Novel Corona					
		(COVID-19)					
2	Environmental	1. Global Warming and climate change					
	Problems	2. Ozone Depletion					
		3. Acid rain	12				
		4. Over use of chemical fertilizers,					
		pesticides and insecticides					
3	Environmental	1. Need of Planning and Management					
	Planning and	2. Micro, macro and meso level					
	Management	Planning and Management with	12				
		reference to India					
		3. Environmental impact assessment					
4	Environmental	1. Introduction of environmental					
	Policies	policies	12				
		2. Environmental education in India	12				
		3. Kyoto Protocol					

Reference Book:

- *1.* Miller G.T., 2004, Environmental Science Working with the Earth, Thomson Books Cole, Singapure
- 2. Saxena H.M., 2017, Environmental Geography,(III ED) Rawat Publicastions, Jaipur
- 3. Odum E.P. et al.2005, Fundamentals of Ecology, Ceneage Learning, India
- 4. Sharma P.D.2015, Ecology and Environment, Rastogi Publications, Meerut

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- 5. Kormondy, Edward J, 2012, Concept of Ecology, PHI Learning Pvt. Ltd, New Delhi
- 6. Singh R.B.(Eds) 2009, Biogeography and Biodiversity, Rawat Publications, Jaipur
- 7. Singh S, Prayag, 1997, Environment Geography, Pustak Bhawan, Allahabad
- 8. Chandana R.C.2002, Environmental Geography, Kalyani Publication, Ludhiana
- 9. Goudie A, 2001, The Nature of The Environment, Blackwell, Oxford
- 10. Gholap T. N., 2000, Environment Science, Nishikant Publications, Pune. (Marathi)
- 11. Choudhar A.H., & et. al., 2014, Disaster Management, Atharv Publication, Pune. (Marathi)
- 12. Musmade A. H., More J. C. 2014, Geography of Disaster Management, Diamond Publication, Pune. (Marathi)
- 13. Saptarshi P. G., More J. C., Ugale V. R., 2009, Geography and Natural Hazads, Diamond Publishing, Pune. (Marathi)

S.Y.B.A. Geography (G2) Syllabus for Semester III Name of Subject: Economic Geography- I, Subject Code: Gg.210 (A)

Objectives:

- 1. To introduce students to the basic principles and concepts of economic geography
- 2. To acquaint students with the applications to economic geography for development in different areas
- 3. The students should be able to integrate various factors of economic development and dynamic aspect of economic geography.

Course Outcome:

- 1. The principles and fundamental concepts in economic geography.
- 2. The application of concepts in economic geography for development in different areas.
- 3. To integrate the various concepts in economic geography with factors of economic development.

Sr. No.	Торіс	Sub Topics	Teaching Hours	Total Credits
1	Introduction to Economic Geography	 Definition, nature and scope of economic geography. Need and significance of economic geography Economic geography and its relation with social sciences Approaches of the study of economic geography 	12	
2	Economic Activity	 Introduction and concept of economic activity with problems and prospect Primary activity Secondary activity Tertiary activity 	12	
3	Concept and classification of resources	 Concept of resources Renewable energy Resources Hydro electricity Solar energy Wind energy Non-renewable Resources Coal, Iron ore Mineral oil Conservation of resources 	12	03
4	Agriculture	 Role of Agriculture in Indian economy Factors influencing agriculture in India a) Physical b) Socio-economic c) Political and cultural Agro-based industries in India a) Dairy industry b Cotton industry Agro –Tourism 	12	

Reference Books :

- 1. Gautam A., 2010, Advance Economic Geography, Sharda Pustak Bhavan, Allahabad
- 2. Chauhan R. N., 2007, Basic Principles of Economic Geography, ABD Publishers, Jaipur
- 3. Padey P. N., Economic Geography, Nirali Publication ,Pune
- 4. Sadhukhan S. K., 1994, Economic Geography An Appraisal of Resources, S Chand & Campany Ltd ,New Delhi
- 5. Roy P., Mukherjee S., 1993, Economic Geography: Resource Appraisal of resources-New Central Book Agency, Calcutta
- 6. Mannur H. G., 2008, International Economics, Vikas Publishing House PvtLtd, Noida
- 7. Siddharth K., 2003, Economic Geography, Theories, Processes &Patterns, Kisalaya Publications Pvt, Ltd, Noida
- 8. Husain M., 2008, Geography of India, Tata McGraw Hill, New Delhi
- 9. Bhat L. S., 1973, Regional Planning in India, Statistical Publishing Society, Kolkata
- 10. Desai V,1991, Fundamentals of Rural Development, Rawat Publications, New Delhi
- 11. Paranjape, Gupte, Karmarkar, 1974, Economic & Commercial Geography, Nirali Publication, Pune.
- 12. More J. C., 2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune
- 13. Pagar S.D., Thorat A. M., More J. C., 2015, Agriculture Geography, Atharav Publication, Pune.

S.Y.B.A. Geography (G2) Syllabus for Semester IV Name of Subject: Economic Geography- II, Subject Code: Gg.210 (B)

Objectives:

1. To acquaint students with the basic principles and concepts of economic geography

2. To acquaint the students with the applications to economic geography for development in different areas.

3. The main aims are to integrate the various factors of economic development and to

acquaint the students with this dynamic aspect of economic geography.

Course Outcome:

- 1. Create awareness about dynamic environment among the students.
- 2. To acquaint students with the fundamental concepts of Environmental Geography.
- 3. To acquaint students about the past, presents and future utility and potentials of natural resources.
- 4. To make aware students about the problems of environment, its utilization and conservation in the view of sustainable development.

Sr.No.	Торіс	Sub Topics	Teaching Hours	Total Credits
1	Trade and Transport	 1.Modes of Transportation and their cost effectiveness Significance of a) Road b) Rail c) Air 2.Treansportation cost of Major types 3,Types of Trade a) National b) International 4.International trade of India 	12	03
2	Industries	 Factors influencing on location of industries. Weber's theory of industrial location Major industrial regions in India a) Iron and steel industry in India b) Sugar Industry in Maharashtra 	12	
3	Regional Planning Development	 Concept of regional planning and development. Their importance Objectives of regional planning Regional and sectoral imbalance in India 	12	
4	Rural Development in India	 Concept of rural development Index of rural development Various schemes of government for rural development a) IRD Programme b) DPAD Programme 	12	

Reference Books :

- 1. Gautam A., 2010, Advance Economic Geography, Sharda Pustak Bhavan, Allahabad
- 2. Chauhan R. N., 2007, Basic Principles of Economic Geography, ABD Publishers, Jaipur
- 3. Padey P. N., Economic Geography, Nirali Publication ,Pune
- 4. Sadhukhan S. K., 1994, Economic Geography An Appraisal of Resources, S Chand &Campany Ltd ,New Delhi
- 5. Roy P., Mukherjee S., 1993, Economic Geography: Resource Appraisal of resources-New Central Book Agency, Calcutta
- 6. Mannur H. G., 2008, International Economics, Vikas Publishing House Pvt Ltd, Noida
- 7. Siddharth K., 2003, Economic Geography, Theories, Processes & Patterns, Kisalaya Publications Pvt, Ltd, Noida
- 8. Husain M., 2008, Geography of India, Tata McGraw Hill, New Delhi
- 9. Bhat L. S., 1973, Regional Planning in India, Statistical Publishing Society, Kolkata
- 10. Desai V,1991, Fundamentals of Rural Development, Rawat Publications, New Delhi
- 11. Paranjape, Gupte, Karmarkar, 1974, Economic & Commercial Geography, Nirali Publication, Pune.
- 12. More J. C., 2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune
- 13. Pagar S.D., Thorat A. M., More J. C., 2015, Agriculture Geography, Atharav Publication, Pune.

S.Y.B.A. Geography (S1)Syllabus for Semester III Name of Subject: Population Geography, Subject Code: Gg.220 (A) Objectives:

- 1. To understand the history of population.
- 2. To introduction of the basic concepts in Population Geography.
- 3. To understand the types of Population data.

Course Outcome:

- **1.** The history of population changes.
- 2. The different concepts in population geography.
- **3.** The types and nature of population data.

Sr. No.	Торіс	Sub Topics	Teaching Hours	Total Credits
1	Introduction	1. Definition, Nature and Scope,		
		2. Contextual significance of Population	12	
		Geography,		
		3. Relation between Population Geography		
		and other social Sciences.		
2	Population Data& Presentation	1. Census of India	12	
	Fresentation	2. National Sample Survey, Sample	12	
		Registration Survey, NFHS, DLHS,		03
		3. Presentation of Population Data – Maps,		
		Graphical Presentation, Computer		
		Application		
3	Population Growth and Demographic	1. Factors affecting Growth of Population		
	Attributes	2. Fertility, Mortality - (Concept,	12	
		Measurement)		
		3. Migration - Concept, Causes, Types		
4	Composition of Population	1. Age-Sex pyramid, Age Structure		
		2. Occupational Structure, Dependency	12	
		Ratio		
		3. Longevity, Life Expectancy. (with		
		Reference to India)		

Reference Books:

1. Barrett H. R., 1995, Population Geography, Oliver and Boyd Publication,

2. Bhende A. and Kanitkar T., 2000, Principles of Population Studies, Himalaya Publishing House.

3. Chandna R. C. and Sidhu M. S., 1980, An Introduction to Population Geography, Kalyani Publishers.

4. Clarke J. I., 1965, Population Geography, Pergamon Press, Oxford.

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5. Jones, H. R., 2000, Population Geography, 3rd ed., Paul Chapman, London.

6. Lutz W., Warren C. S. and Scherbov S.,2004, The End of the World Population Growth in

the 21st Century, Earth scan

7. New bold K. B.,2009, Population Geography Tools and Issues, Rowman and Littlefield Publishers.

8. Pacione M., 1986, Population Geography-Progress and Prospect, Taylor and Francis.

9. Wilson M. G. A., 1968, Population Geography, Nelson Publishers.

10. Panda B P, 1988, Population Geography, Granth Academy, Bhopal (Hindi)

- 11. Maurya S D, 2009, Population Geography, Sharda Putak Bhawan, Allahabad (Hindi)
- 12. Chandna, R C, 2006, Population Geography, Kalyani Publishers, Delhi. (Hindi)
- 13. Sawant, Athavale, Musmade, Population Geography, Mehta Pubication, Pune. (Marathi)
- 14. More J. C., 2014, Geography & Agriculture For MPSC Examination, Atharv Publication,

Pune (Marathi)

15. Musmade A.H., Sonawane A.E., More J.C., 2015, Population & Settlement Geography,

Diamond Publication Pune. (Marathi)

S.Y.B.A. Geography (S1), Syllabus for Semester IV Name of Subject: Population Geography, Subject Code: Gg.220 (B) Objectives:

- 1. To introduce students to the Population Policy of India and China.
- 2. To understand the Health indicator in India.
- 3. To acquaint students with the concept of urbanization in population geography.
- 4. To understand population theories.

Course Outcome:

- 1. The population policies in India and China.
- 2. The health indicators in India.
- 3. The concept of urbanization in population geography.
- 4. The different population theories.

Sr.	Торіс		Sub Topics	Teaching	Total
No.				Hours	Credits
1	Concept and theories of	1.	Population and space: over		
	Population		Population, Optimum	12	
			Population, Under		
			Population		
		2.	Malthusian Theory		
		3.	Marxian Theory		
2	Problems of Population	1.	Population Problems in		
	and Population Polices		India.		03
		2.	Population Problems in	12	
			developed countries		
		3.	Population Policies in India		
			and China		
3	Population as a	1.	Health Indicator in India		
	Resources	2.	Population as Social Capital	12	
	Contemporary Issues	3.	Human Development Index.		
4	Urbanization	1.	Concept of urbanization		
		2.	History of urbanization in		
			India, Trends of World	12	
			urbanization.		
		3.	Problems of Urbanization in		
			India		

Reference Books:

1. Barrett H. R., 1995, Population Geography, Oliver and Boyd Publication,

2. Bhende A. and Kanitkar T., 2000, Principles of Population Studies, Himalaya Publishing House.

3. Chandna R. C. and Sidhu M. S., 1980, An Introduction to Population Geography, Kalyani Publishers.

4. Clarke J. I., 1965, Population Geography, Pergamon Press, Oxford.

5. Jones, H. R., 2000, Population Geography, 3rd ed., Paul Chapman, London.

6. Lutz W., Warren C. S. and Scherbov S., 2004, The End of the World Population Growth in

the 21st Century, Earth scan

7. New bold K. B.,2009, Population Geography Tools and Issues, Rowman and Littlefield Publishers.

8. Pacione M., 1986, Population Geography-Progress and Prospect, Taylor and Francis.

9. Wilson M. G. A., 1968, Population Geography, Nelson Publishers.

10. Panda B P, 1988, Population Geography, Granth Academy, Bhopal (Hindi)

11. Maurya S D, 2009, Population Geography, Sharda Putak Bhawan, Allahabad (Hindi)

12. Chandna, R C, 2006, Population Geography, Kalyani Publishers, Delhi. (Hindi)

13. Sawant, Athavale, Musmade, Population Geography, Mehta Pubication, Pune. (Marathi)

14. More J. C.,2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune (Marathi)

15. Musmade A.H., Sonawane A.E., More J.C., 2015, Population & Settlement Geography, Diamond Publication Pune. (Marathi)

Geography

S.Y.B.A. Geography (S1), Syllabus for Semester III

Name of Subject: Geography of Maharashtra, Subject Code: Gg.220 (A)

Objectives:

- 1. To acquaint students with Geography of our State.
- 2. To make students aware of the magnitude of problems and prospects in Maharashtra.
- 3. To help students understand the inter relationship between the subject and the society.
- 4. To help students understand the recent trends in regional studies

.Course Outcome:

- 1. Learn the geography of Maharashtra state.
- 2. Aware about problems and prospects of Maharashtra.
- 3. Understand the relationship between geographic variations and society in Maharashtra.
- 4. Learn the recent trends in regional studies.

Sr.	Topic	Sub Topics	Teaching	Total
No.	-	-	Hours	Credits
1	Administrative Set	1. Historical and Political		
	up of Maharashtra	Background of the state		
		2. Geographical location of State	12	
		3. Adjoining States		
		4. Administrative Divisions		
2	Physical settings	1. Geological Structure of		
		Maharashtra.	12	
		2. Physical Structure (Mountain,		
		plateau, Plains)		
		3. Drainage Pattern (East and West		
		flowing rivers)		
		4. Major Soil types and Distribution.		03
3	Climate	1. Climatic Regions of Maharashtra		
		2. Distribution of Rainfall		
		3. Draught prone areas- Problems and	12	
		Management		
		4. Flood areas - Problems and		
		Management		-
4	Resources	1. Water :Problems in Utilization and		
		conservation		
		2. Forest : Types and Conservation	12	
		3. Mineral; Iron ore, Manganese and		
		Bauxite		
		4. Power : Hydro, Thermal, Atomic		

Reference Book:

- 1. Dikshit K.R., Maharashtra in Maps,
- 2. Deshpande C. D., Maharashtra
- 3. Sadhu Arun, Maharashtra, National Book Trust
- 4. Savadi A. B., Geography of Maharashtra: Nirali Prakashan, Pune.
- 5. Dastane S., Maharashtra, Ramchandra and company, Pune
- 6. Sawadi A. B., The Mega State Series : Nirali Publication, Pune.

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- 7. Maharashtra state Agricultural Atlas
- 8. Karve I., Maharashtra its Land and people,
- 9. More J. C., 2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune (Marathi)

S.Y.B.A. Geography (S1), Syllabus for Semester IV

Name of Subject: Geography of Maharashtra, Subject Code: Gg.220

(B) Objective :

- 1. To make students aware about the Agriculture problems and prospects of Maharashtra.
- 2. To understand the population distribution and settlement pattern in Maharashtra.
- 3. To understand the concept of rural development.
- 4. To understand the prospectus in Tourism activity in Maharashtra and the role of MTDC and Role of MIDC in industrial development in rural area of Maharashtra

Course Outcome:

- 1. Aware about the problems and prospects of agriculture in Maharashtra.
- 2. Learn the distribution of population and patterns of settlements in Maharashtra.
- 3. Learn the concepts in rural development.
- 4. Understand the prospectus of tourism activities in Maharashtra with role of MTDC in development.

Sr.	Торіс	Sub Topic & Learning Point	Hours	Credits
No.				
1	Agriculture	1. Importance of Agriculture in Economy of Maharashtra	12	
		 Major Crops - Wheat, Rice, Jawar, Bajra. Cash Crops and Horticulture - Cotton, Sugarcane, Pomegranate, Grapes. Problems of agriculture in Maharashtra. 		
2	Population and Settlement	 Population distribution of Maharashtra Population composition - Sex Ratio, Literacy, Occupational structure, Migration Rural and Urban Settlements Potential of Major Cities in Maharashtra – Mumbai, Pune, Nagpur 	12	03
3	Rural Development of Maharashtra	 Concept of Rural Development Parameters of Rural Development Schemes For Rural Development Case Studies – Hivare Bazar and Ralegan Siddhi (Ahmednagar), Patoda (Aurangabad) 	12	
4	Tourism	 Growth and development of tourism in Maharashtra Tourism Potential of Maharashtra Agro-Tourism Role of MTDC 	12	

5. Understand the role of MIDC in industrial development in rural Maharashtra.

Reference Book:

- 1. Dikshit K.R., Maharashtra in Maps,
- 2. Deshpande C. D. , Maharashtra
- 3. Sadhu Arun, Maharashtra, National Book Trust
- 4. Savadi A. B., Geography of Maharashtra: NiraliPrakashan, Pune.
- 5. Dastane S., Maharashtra, Ramchandra and company, Pune
- 6. Sawadi A. B., The Mega State Series : Nirali Publication, Pune.
- 7. Maharashtra state Agricultural Atlas
- 8. Karve I., Maharashtra its Land and people,
- 9. More J. C., 2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune (Marathi)

Workload: Six Periods per week per batch consisting of 12 Students; however

the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

Objectives of Course:

- 1. To introduce the basic concepts in Practical Geography
- 2. To enable students to use various Scales and Projection Techniques in Geography.
- 3. To acquaint students with the utility of various Projections in Geographical knowledge.
- 4. To explain the elementary and essential principles of practical work in Geography.

Course Outcome:

- 1. Learn the basic concepts in practical geography.
- 2. Able to develop and use of survey and mapping skills.
- 3. Aware of the new techniques, accuracy and map making skills.

Note:

- **1.** Use of Map stencils, Log tables, Calculator, computer, Statistical Tables is allowed at the time of Examination.
- **2.** Students must check the practical's regularly and Journal should be certified by practical in-charge and Head of the Department before the examination.
- **3.** Students without a certified journal should not be allowed for the practical examination.
- 4. Each of the practical batches needs a separate question paper.

Sr. No.	Торіс	Sub Topic & Learning Point	No of Practical	Credits
1.	Introduction of Maps	 Definition of Map Elements of Map Classification of Map: a. On the basis of scale: i) Small scale ii) Large Scale b. On the basis of function: i) Physical ii) Cultural	03	

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2.	Map Scale	1. Definition of Map Scale.		
		2. Types of Map Scale		
		a. Verbal Scale		
		b. Numerical Scale		
		c. Graphical Scale		
		3. Conversion Scale (British and Metric	06	
		System)		
		a. Verbal scale to Representative fraction		
		b. Representative fraction into Verbal scale		04
		4. Construction of Simple Graphical scale (At		
		least two examples from each)		
3.	Basic of map	1. Definition and types of map projection		
	projection	2. Basic Concepts of Projection: Latitude,		
		Longitude, Parallel of latitude, Meridian of		
		longitude, Prime meridian, Equator,	04	
		Direction	04	
		3. Calculation of time basis on meridian and		
		GMT (Calculation of minimum two		
		examples)		
4.	Construction,	1. Zenithal Projection		
	properties	a. Zenithal Polar Gnomonic Projection		
	and use of	2. Conical Projection		
	map	a. Conical projection with one standard		
	projections	parallel/Simple conical projection	07	
		3. Cylindrical Projection		
		a. Cylindrical equal area projection		
		4. Mercator projection		
		(At least two examples from each projection)		

Reference Books:

- 1. Sharma J. P., 2010, Prayogic Bhugol, Rastogi Publishers, Meerut.
- 2. Singh R. L. and Singh R. P. B., 1999, Elements of Practical Geography, Kalyani Publishers.
- 3. Slocum T. A., Mcmaster R. B. and Kessler F. C., 2008, Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
- 4. Tyner J. A., 2010, Principles of Map Design, The Guilford Press.
- 5. Sarkar A., 2015, Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi
- 6. Singh R. L. and Duttta P. K., 2012, Prayogatama Bhugol, Central Book Depot, Allahabad
- 7. Ahirrao Y., Karanjkhele E. K., 2002, Practical Geography, Sudarshan Publication, Nashik
- 8. Saptarshi P. G., Jog S. R., Statistical Methods,
- 9. Karlekar S. N., 2008, Statistical Methods, Diamond Publication, Pune
- 10. Kanetkar T. P., Kulkarni S. V., 1986, Surveying and Leveling, Pune Vidyrthi Griha Publication, Pune
- 11. Kumbhare A., Practical Geography,
- 12. Saha P., Basu P., 2007, Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata

S.Y.B.A. Geography (S2), Syllabus for Semester IV Name of the Subject: Cartographic Techniques, Surveying and Excursion / Village / Project Report subject Code: Gg. 201 (B)

Practical Geography-II No. of Credits: 04

Workload: Six Periods per week per batch consisting of 12 Students; however

the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester) Objectives of Course:

- 1. To introduce the students to the basic and contemporary concepts in Cartography.
- 2. To acquaint the students with the utility and applications of various Cartographic Techniques.
- 3. To introduce the latest concepts regarding the modern cartography in the field of Geography.
- 4. To explain the elementary and essential principles of practical work in Geography.

Course Outcome:

- 1. Learn the basic concepts in practical geography.
- 2. Able to develop and use of map scale and projections.
- 3. Aware of the new techniques, accuracy and map making skills.

Note :

- 1. Use of Map stencils, Log tables, Calculators, Statistical Tables is allowed at the time of Examination.
- 2. Journal completion by the students and the certified by practical in-charge and Head of the Department is compulsory.
- 3. Students without a certified journal should not be allowed for the practical examination.
- 4. Each of the practical batches needs a separate question paper.

CBS	E: 2020-21	S.Y.B.A.	G	eography
Sr. No.	Торіс	Sub Topic & Learning Point	No of Practical	Credits
1.	Introduction to Cartography	 Definition of Cartography Development of cartography a. Traditional b. Modern 3. Use of Cartography 	02	
2.	Cartographic techniques	 Techniques of representation of data (Use and limitations) Simple line graph Simple bar Graph Pie diagram Choropleth Map Isopleth Method (Isoheight or Isothermal) Flow diagram (At least 01 example of each manually and using computer) 	06	
3.	Surveying	 Definition of Surveying Types of North Direction (True, Magnetic and Grid North) Types of Survey (Any three) a. Plane Table Survey : (Radiation Method and Intersection Method) b. GPS Survey and plotting c. Dumpy level / Auto level survey 	08	04
4.	Excursion / village/city survey and report writing	Study tour to places of geographical interest anywhere in the country Or Socio- economic survey of village/city	04	

Reference Books:

- 1. Sharma J. P., 2010, Prayogic Bhugol, Rastogi Publishers, Meerut.
- 2. Singh R. L. and Singh R. P. B., 1999, Elements of Practical Geography, Kalyani Publishers.
- 3. Slocum T. A., Mcmaster R. B. and Kessler F. C., 2008, Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
- 4. Tyner J. A., 2010, Principles of Map Design, The Guilford Press.
- 5. Sarkar A., 2015, Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi
- Singh R. L. and Duttta P. K., 2012, Prayogatama Bhugol, Central Book Depot, Allahabad
- 7. Ahirrao Y., Karanjkhele E. K., 2002, Practical Geography, Sudarshan Publication, Nashik
- 8. Saptarshi P. G., Jog S. R., Statistical Methods,
- 9. Karlekar S. N., 2008, Statistical Methods, Diamond Publication, Pune
- 10. Kanetkar T. P., Kulkarni S. V., 1986, Surveying and Leveling, Pune Vidyrthi Griha Publication, Pune
- 11. Kumbhare A., Practical Geography,
- Saha P., Basu P., 2007, Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata
- Advanced Practical Geography: 2007, Saha P., Basu P., Books and Allied (P) Ltd, Kolkata

S.Y.B.A. Geography Syllabus

Name of Subject: Introduction to Geographic Information System

Subject Code: SEC – A, Semester – III

Total Credit:02,

Total Periods: 30

Objectives:

- 1. To introduce the students about the basic concepts of GIS.
- 2. To acquaint the students with the utility and applications of GIS Technique.
- 3. To create the awareness about Geospatial technology among the students.
- 4. To inculcate skill of map making among the students by using GIS Technique.

Course Outcome:

- 1. The basic concepts in GIS.
- 2. The applicability of GIS techniques.
- 3. The new techniques and skills of map-making with accuracy.

Sr. No.	Торіс	Sub Topics	Teaching Hours	Total Credits
1	Introduction to GIS	 Definition of GIS Stages of GIS Development Objectives of GIS Components GIS GIS Applications 	06	
2	Data Types & Models	 Spatial Data – Concept, Sources; Data Models – Raster & Vector Non-spatial Data – Concept, Sources; Data Models – Relational, Network, Hierarchical & Object- orientated 	06	2
3	Software based Practical	 Geo-referencing of Toposheet/Map Digitization of Point, Line & Polygon (at least one layer of each) Data Attachment Creation of Layout and Map 	18	

Course Outcomes:

On successfully completion of this course, the students will able to -

- Comprehend knowledge about the concepts in GIS.
- Acquire skills of map making using GIS.

Reference Books:

- Burrough, P. A. and McDonnell, R. A. (2000): Principles of Geographical Information Systems, Oxford University Press, New York.
- Chang, K. T. (2008): Introduction to Geographic Information Systems, Avenue of the Americas, McGraw-Hill, New York.
- Debashis, C. and Sahoo, R. N. (2015): Fundamentals of Geographic Information System, Viva Books Private Limited.
- DeMers, M. N. (2008): Fundamentals of Geographic Information Systems, John Wiley and Sons, New Delhi.
- Heywood, I., Cornelius, S. and Carver, S. (2011): An Introduction to Geographical Information Systems, Pearson Education, New Delhi.
- Karlekar, S. (2007): Bhaugolik Mahiti Pranali (GIS), Diamond Publications, Pune.

- Korte, G. B. (2001): The GIS Book, Onward Press, Bangalore.
- Longley, P. A., Goodchild, M. F., Maguire, D. J. and Rhind, D. W. (2002): Geographical Information Systems and Science, John Wiley & Sons, Chichester.
- Lo Albert, C. P., Yeung and Albert K. W. (2002): Concepts and Techniques of Geographical Information Systems, Prentice Hall of India, New Delhi.
- Pandey, J. and Pathak D. (2015): Geographic Information System, TERI Press, The Energy and Resources Institute, New Delhi.
- Paul, A. L., Michel, F. G., Maguire, D. J. and Rhind, D.W. (2002): Introduction to Geographic Information Systems and Science, John Wiley and Sons Ltd.

S.Y.B.A. Geography Syllabus Name of Subject: APPLIED COURSE OF DISASTER MANAGEMENT

Subject Code: SEC - A Semester - III

Total Credit:02,

Total Periods: 30

Objectives:

The objectives of the course are to develop following Skills among the students

- 1.To introduce basic concepts and fundamental structure of Disaster Management (DM).
- 2.To inculcate critical thinking and problem-solving abilities on disaster management.
- 3. To enable students to assess the situation and design plan for Disaster management C_{1}

Course Outcome:

- 1. The basic concepts and fundamentals in disaster management.
- 2. The problem solving abilities on disaster management.

Unit	Торіс	Sub Topics	Teaching	Total
no.			Hours	Credits
1	Fundamental	a) Disaster, Hazard, Risk,		
	Concepts,	Vulnerability, Resilient		
	Measurement /	b) Magnitude, Intensity, Frequency,	06	
	Parameter and	Duration, Spatial dispersion	00	
	Types of			
	Disasters			
2	Phases of	a) Concept: Mitigation,		
	Disaster	Preparedness, Response,		
	Management	Recovery, Rehabilitation.		
	Role of	b) Role of Geographers	08	
	Geographers			
	and			02
	organizations			
3	Comparative			
	Assessment of	a) Earthquake: - India and Japan	08	
	Disaster	b) Flood:- India and Netherland	00	
	Management- I			
4		Assignment based on Primary or		
	Assessment of	secondary data on any one		
	Disaster	Geographical scale-	08	
	Management- II	local/ regional/national/ global		
		Total, regional, national, global		

3. To assess the situation and design plan for disaster management.

1. Disaster Management Guidelines, GOI-UND Disaster Risk Program (2009-2012)

2. Damon, P. Copola, (2006) Introduction to International Disaster Management, Butterworth Heineman.

3. Gupta A.K., Niar S.S and Chatterjee S. (2013) Disaster management and Risk Reduction, Role of Environmental Knowledge, Narosa Publishing House, Delhi.

4. Murthy D.B.N. (2012) Disaster Management, Deep and Deep Publication PVT. Ltd. New Delhi.

5. Modh S. (2010) Managing Natural Disasters, Mac Millan publishers India LTD.

6. Dr. Mrinalini Pandey (2017) Disaster Management, Wiley India Pvt. Ltd.

7. Tushar Bhattacharya (2018) Disaster Science and Management, McGraw Hill Education (India) Pvt. Ltd.

9. Arjun Musmade, Jyotiram More (2014) Geography of Disaster Management, Diamond Publication, Pune. (Marathi)

10. P. P. Marathe (2010), Disaster Management Concepts & Practices Diamond Publication, Pune. (Marathi)

S.Y.B.A. Geography Syllabus

Name of Subject: Introduction to Remote Sensing

Subject Code: SEC-B Semester – IV

Total Credit:02,

Total Periods: 30

Objectives:

- 1. To introduce the students about the basic concepts of Remote Sensing.
- 2. To acquaint the students with the utility of RS and its applications.
- 3. To inculcate the skill of satellite image interpretation among the students.

Course Outcome:

- 1. The basic concepts and fundamentals in remote sensing.
- 2. The applicability of remote sensing techniques.
- 3. The skills of satellite image interpretation and map-making.

Sr. No.	Торіс	Sub Topics	Teaching Hours	Total Credits
1	Introduction to Remote Sensing	 Concept, Definition and Types of RS Development of RS in India Stages in RS Electromagnetic Spectrum Applications of RS 	07	
2	Image Interpretation	 Elements of Visual Image Interpretation Visual Image Interpretation of Satellite Images IRS or LANDSAT 	07	2
3	Software based Practical	 Image Downloading through Bhuvan/USGS Layer Stacking Image Enhancement Image Classification - Unsupervised 	16	

Reference Books:

- Anji Reddy, M. (2008): Textbook of Remote Sensing and Geographic Information System, B.S. Publication, Hyderabad.
- Bhatta B., (2011): Remote Sensing and GIS, Oxford University Press, India.
- Campbell, J. (2002): Introduction to Remote Sensing, Taylor & Francis, London.
- Gupta, R.P. (1990): Remote Sensing Geology. Springer Verlag.
- Heywood, I., Steve, C. and Cornelius, S. (2003): An Introduction to Geographical Information Systems, Pearson Education.
- Jensen, J. R. (2000): Remote Sensing of the Environment: An Earth resource Perspective, Prentice Hall.
- Jensen, J. R. (2005): Introductory Digital Image Processing, Prentice Hall, New Jersey.
- Karlekar, S. (2006): Doorsamvedan Remote Sensing (Marathi), Diamond Publications, Pune.
- Karlekar, S. (2017): Dursamvedan Aani Bhougolik Mahiti Pranali (Marathi), Diamond Publications, Pune.
- Lillesand, T. M., Kiefer, R. W. and Chipman, J. W. (2016): Remote Sensing and Image Interpretation, 6th Edition, Wiley India.
- Rao R. M. (2002): Geographical Information Systems, Rawat Publication.
- Sabins, F. F. (1996): Remote Sensing: Principles and Interpretation, W.H. Freeman and Company, San Francisco.

S.Y.B.A. Geography Syllabus Name of Subject: APPLIED COURSE OF Travel & Tourism

Subject Code: SEC – B Semester -IV

Total Credit:02,

Total Periods: 30

- 1. To develop basic framework to understand the various elements of tourism management.
- 2. To evaluate the role of transport in travel and tourism industry.
- 3. To develop the skills to arrange, manage and implement various types of tours.

Skills to be developed:

- 1. Students will be able to perform online as well as offline booking and cancellation procedures for different available modes of travel and tourism.
- 2. Students will be able to acquire earning skills in tourism industry.

Course Outcome:

- 1. Perform online as well as offline booking and cancellation procedures for different available modes of travel and tourism.
- **Introduction to Tourism** Unit Topic Learning Point Periods No. 1.1 Basic concepts: Travel & Tourism 1 Introduction 05 1.2 Types of Tourist and Tourism to Travel and Tourism 1.3 Types of transportation 2 2.1 Concept and need of local tourism Local 05 2.2 Introduction to local tourist places Tourism 3 3.1 Basic skills: Communication, Time Management, Computer Tour 10 operating, online booking, Net banking, Cancellation of planning and booking and ticket, etc. Skill 3.2 Framing the tour plan (Itinerary): Budget (Costing), development Duration, Insurance, Route and other requirements for individual, family, group and mass level tours 3.3 Promotion of tourism 4.1 One short tour (Not more than two days duration) and 4 Project work 10 and Visit to Preparation of tour report. tourist place
- 2. Acquire earning skills in tourism industry.

Text Books:

- 1. Bhatia. Tourism Development (New Delhi, Sterling)
- 2. Seth: Tourism Management (New Delhi, Sterling)
- 3. Kaul: Dynamics of Tourism (New Delhi, Sterling)
- 4. Mill and Morrison The Tourism system an Introductory Text (1992) Prentice Hall
- 5. Cooper, Fletcher, Tourism, Principles and practices (1993) Pitman
- 6. Burkart and Medlik Tourism, Past, Present and Future (1981) Heinemenn, ELBS.
- 7. P.S. Gill, Dynamices of Tourism (4 Vols) Anmol Publication.
- 8. P.C. Sinha, Tourism Management. Anmol Publication.

References:

- 1. Travel Industry : Chunky Gee et-al
- 2. Tourism Systems Mill and Morisson
- 3. Tourism Management Vol 4 P.C. Sinha
- 4. Tourism Development R. Gartner
- 5. Studies in Tourism Sagar Singh
- 6. Tourism: Principles and Practices Cooper C., Fletcher J., Gilbert D and Wanhil.
- 7. Tourism: Principles and Practices McIntosh, R.W.
- 8. Tourism : Past, Present and Future Burkart & Medli