

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)	I		
				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
			A	Geographical Information		
				System (GIS) /		
				Applied Course of Disaster		

CBSE: 2020-21 S.Y.B.A. Geography

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				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 syllabus 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
S2	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

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 Equatorial Forest and 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.

Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Environmental Disaster	 Meaning and concepts of environmental disaster Classification of Disaster Natural Disaster Earthquake b) Flood Biological Disaster Swine flu b) Novel Corona (COVID-19) 	12	03

CBSE: 2020-21 S.Y.B.A. Geography

CDSI	2. 2020-21	5.1.D.A.	Geography	
2	Environmental	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		

- 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
- 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.

Sr.	Topic	Sub Topics	Teaching	Total
No.			Hours	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	

- 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.

Sr.No.	Topic	Sub Topics	Teaching	Total
			Hours	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	

CBSE: 2020-21 S.Y.B.A. Geography

3	Regional Planning	1. Concept of regional planning and		
	Development	development. Their importance		
		2. Objectives of regional planning	12	
		3. Regional and sectoral imbalance in		
		India		
4	Rural Development	1. Concept of rural development		
	in India	2. Index of rural development		
		3. Various schemes of government	12	
		for rural development	12	
		a) IRD Programme		
		b) DPAD Programme		

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.

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Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Introduction	1. Definition, Nature and Scope,	12	
		2. Contextual significance of Population Geography,	12	
		3. Relation between Population Geography and other social Sciences.		
2	Population Data& Presentation	Census of India National Sample Survey, Sample	12	
		Registration Survey, NFHS, DLHS,		03
		3. Presentation of Population Data – Maps,		
		Graphical Presentation, Computer Application		
3	Population Growth	Factors affecting Growth of Population		
	and Demographic Attributes	2. Fertility, Mortality - (Concept,	12	
		Measurement)		
	1	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)		

- 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)

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.

Sr.	Topic		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		

- 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)

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

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		

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2	Physical settings	 Geological Structure of Maharashtra. Physical Structure (Mountain, plateau, Plains) Drainage Pattern (East and West flowing rivers) Major Soil types and Distribution. 	12	03
3	Climate	Climatic Regions of Maharashtra Distribution of Rainfall Draught prone areas- Problems and Management Flood areas - Problems and Management	12	
4	Resources	 Water :Problems in Utilization and conservation Forest : Types and Conservation Mineral; Iron ore, Manganese and Bauxite Power : Hydro, Thermal, Atomic 	12	

- 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.
- 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

Sr. No.	Topic	Sub Topic & Learning Point	Hours	Credits
1	Agriculture	 Importance of Agriculture in Economy of Maharashtra Major Crops - Wheat, Rice, Jawar, Bajra. Cash Crops and Horticulture - Cotton, Sugarcane, Pomegranate, Grapes. Problems of agriculture in Maharashtra. 	12	
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	

- 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)

S.Y.B.A. Geography (S2), Syllabus for Semester III Name of the Subject: Scale and Map Projection, subject Code: Gg. 201 (A) Practical Geography-I No. of Credits: 04

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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:

After the successful completion of the course, the students will be able to:

- 1. Develop practical skill and use of map scale and projection.
- 2. To make students aware of the new techniques, accuracy and skills of map making.

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.	Topic	Sub Topic & Learning Point	No of Practical	Credits
1.	Introduction of Maps	 Definition of Map Elements of Map Classification of Map: On the basis of scale: 	03	
2.	Map Scale	 Definition of Map Scale. Types of Map Scale a. Verbal Scale b. Numerical Scale c. Graphical Scale Conversion Scale (British and Metric System) a. Verbal scale to Representative fraction b. Representative fraction into Verbal scale Construction of Simple Graphical scale (At least two examples from each) 	06	04
3.	Basic of map projection	 Definition and types of map projection Basic Concepts of Projection: Latitude, Longitude, Parallel of latitude, Meridian of longitude, Prime meridian, Equator, Direction Calculation of time basis on meridian and GMT (Calculation of minimum two examples) 	04	
4.	Construction, properties and use of map projections	 Zenithal Projection Zenithal Polar Gnomonic Projection Conical Projection Conical projection with one standard parallel/Simple conical projection Cylindrical Projection Cylindrical equal area projection Mercator projection (At least two examples from each projection) 	07	

- 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

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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:

After the successful completion of the course, the students will be able to:

- 1. Develop practical knowledge and application of cartographical techniques.
- 2. To make students aware of the new techniques, accuracy and skills of Map Making.

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.

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CDSI	E: 2020-21	S.Y.B.A.	G	eography
Sr. No.	Topic	Sub Topic & Learning Point	No of Practical	Credits
2.	Introduction to Cartography Cartographic	 Definition of Cartography Development of cartography a. Traditional b. Modern Use of Cartography Techniques of representation of data 	02	
	techniques	(Use and limitations) a. Simple line graph b. Simple bar Graph c. Pie diagram d. Choropleth Map e. Isopleth Method (Isoheight or Isothermal) f. 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) Plane Table Survey: (Radiation Method and Intersection Method) GPS Survey and plotting 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	

- 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
- 13. 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.

Sr. No.	Topic	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.

- 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

Unit	Topic	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	Comporativo			
	Comparative Assessment of	a) Earthquake: - India and Japan	08	
	Disaster	b) Flood:- India and Netherland	08	
	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		
		local/ regional/national/ global		

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.

Sr. No.	Topic	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 i.e. IRS or LANDSAT 	07	2
3	Software based Practical	 Image Downloading through Bhuvan/USGS Layer Stacking Image Enhancement Image Classification - Unsupervised 	16	

Course Outcomes:

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

- Obtain knowledge about the concepts of remote sensing.
- Acquire skills in visual interpretation of satellite images.

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.
- Cracknell, A.P. (1991): Introduction to Remote Sensing, Tylor & 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.
- Joseph, G. (2004): Fundamentals of Remote Sensing, Universities Press, Hyderabad, India.
- 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

Objectives

- 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.

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

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