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- 1] **The Principal, all concerned affiliated colleges,** Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 2] **The Director,** University Network & Information Centre, UNIC, with **a request to upload this Circular on University Website.**
- 3] **The Director, Board of Examinations & Evaluation,**  
Dr. Babasaheb Ambedkar Marathwada University,  
Chhatrapati Sambhajinagar.

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DrK\*280525/-

**Dr. Babasaheb Ambedkar Marathwada University  
Chhatrapati Sambhajnagar (MS)- 431001**



**Three Years B.A.  
And  
Four Years B.A. (Hons. with Research)  
Degree Programme**

## **Syllabus**

**B.A. Second Year  
(Revised)  
(AS PER NEP- 2020)**

**Subject: - GEOGRAPHY  
Effective from 2025-2026**

*Anil  
29/3/2024.  
Dr. A-Z. Khan.  
Chairman  
Bos Geography -*

**Dr. Babasaheb Ambedkar Marathwada University,**  
**Chhatrapati Sambhajinagar.**  
**NEP 2020 Curriculum Structure and Scheme of Evaluation for B.A. S.Y.**  
**Subject- Geography**

<b>SEMESTER - III<sup>rd</sup></b>											
Sr. No.	Course Type	Course Code	Titles of Course	Total Credit	Scheme of Teaching (Hours / Week)		Total Hours/ Week	Scheme of Evaluation (Marks)			
					Theory	Practical		UA	CA	IA	Total Marks
1	Major (core)	GT.DSC-7	Climatology-I	02	02	-	30	30		20	50
		GP.DSC-7	Practical Geography (related to weather or climate)	02	-	04/ Batch	60	30	--	20	50
		GT.DSC-8	Population Geography	02	02	-	30	30	--	20	50
		GP.DSC-8	Practical Geography	02	-	04/ Batch	60	30	--	20	50
2	Minor	GT.M-1	Geography of Marathwada	02	02	-	30	30	--	20	50
		GT.M-2	General Geography	02	02	--	30	30	--	20	50
3	GE/OE (Generic /open Elective)	GT.GE/OE-3	World Heritage center in Maharashtra	02	02	-	30	30	--	20	50
4	VSC (Vocational Skill Course)	GT.VSC-2	IMD (Indian Daily Weather report) Theory	01	01	-	30	-	30	20	50
		GP.VSC-2	IMD (Indian Daily Weather report) Practical	01	-	02/ Batch	60		30	20	50
<b>(A) Total of Semester - III</b>				<b>16</b>	<b>11</b>	<b>10</b>	<b>360</b>	<b>210</b>	<b>60</b>	<b>180</b>	<b>450</b>

**General Instruction: -**

1. Teaching work load shall be One period for one Credit per week each theory paper.
2. Practical work load shall be Two period for one Credit per batch per week each practical paper.
3. Strength of students for each practical batch shall not be more than 20.
4. Students shall not be allowed for practical Examination without certified journal.
5. Total periods for each theory paper shall be 30/semester.
6. Total Periods for Practical paper shall be 60/semester.
7. There should be Continuous Internal Evaluation (CIE) for each paper e.g. Test, tutorials, Seminars and Home Assignments etc.

**Dr. Babasaheb Ambedkar Marathwada University,  
Chhatrapati Sambhajinagar.  
NEP 2020 Curriculum Structure and Scheme of Evaluation for B.A. S.Y.  
Subject- Geography**

<b>SEMESTER - IV<sup>th</sup></b>											
Sr. No.	Course Type	Course Code	Titles of Course	Total Credit	Scheme of Teaching (Periods / Week)		Total Lectures	Scheme of Evaluation (Marks)			
					Theory	Practical		UA	CA	IA	Total Marks
1	Major (core)	GT.DSC-9	Climatology-II	02	02	-	30	30		20	50
		GP.DSC-9	Practical Geography (related to weather or climate)	02	-	04/Batch	60	30		20	50
		GT.DSC-10	Demography	02	02	-	30	30		20	50
		GP.DSC-10	Practical Geography	02	-	04/Batch	60	30		20	50
2	Minor	GT.M-3	Geography of Resources	02	02	-	30	30		20	50
		GT.M-4	Tourism Geography	02	02	-	30	30		20	50
3	GE/OE (Generic/open Elective)	GT. GE/OE-4	Introduction of Indian Monsoon	02	02	-	30	30		20	50
4	SEC (Skill Enhance Course)	GT.SEC-2	Instrumental Survey Theory	01	01	-	30	-	30	20	50
	SEC (Skill Enhance Course)	GP.SEC-2	Instrumental Survey Practical	01	-	02/Batch	60	-	30	20	50
5	CEP (Community Engagement Project)	GP-FP-1	Field Project/ Study Tour	02		04/Batch	60		30	20	50
<b>(A) Total of Semester - IV</b>				<b>18</b>	<b>11</b>	<b>14</b>	<b>420</b>	<b>210</b>	<b>90</b>	<b>200</b>	<b>500</b>

**General Instruction: -**

1. Teaching work load shall be One period for one Credit per week each theory paper.
2. Practical work load shall be Two period for one Credit per batch per week each practical paper.
3. Strength of students for each practical batch shall not be more than 20.
4. Students shall not be allowed for practical Examination without certified journal.
5. Total periods for each theory paper shall be 30/semester.
6. Total Periods for Practical paper shall be 60/semester.
7. There should be Continuous Internal Evaluation (CIE) for each paper e.g. Test, tutorials, Seminars and Home Assignments etc.

**Bachelor of Arts**  
**BASY Semester -III**  
**Subject: Geography**  
**Course Code - GT-DSC 7**

**Title of Course- Introduction of Climatology**

**Total Credit: 02**

**Total Contact Hours: 30 Hrs.**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

- I. Develop a foundational knowledge of climatology.
- II. Analyze the composition and structure of the atmosphere.
- III. Understand the principles of atmospheric pressure and wind systems.
- IV. Investigate the classification and characteristics of air masses and fronts.
- V. Apply climatological concepts to analyze weather patterns and their impact on human activities and ecosystems

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

- I. Define and explain the nature, scope, and significance of climatology and weather.
- II. Describe the composition and structure of the atmosphere.
- III. Interpret the concept of insolation, temperature distribution, and the Earth's heat budget.
- IV. Analyze the role of atmospheric pressure, wind systems, evaporation, condensation, and the hydrological cycle in climate processes.
- V. Define and classify air masses, explain their properties, and analyze their impact on climate and weather patterns.

**Course Contents**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Introduction of Climatology: -</b> Definition, Nature and scope of Climatology, Significance and elements of Weather and Climate.	10
II	<b>Atmosphere:</b> Composition and structure of Atmosphere; Insolation, Heat Budget of the Earth; Temperature: Distribution of Temperature – Vertical and Horizontal.	10
III	<b>Atmospheric Pressure and Winds-</b> Pressure belts, shifting of pressure belts; Winds- Types of winds(Planetary, Seasonal and Local)	10

**TextBooks:**

1. हवामान व सागरशास्त्र -ए बी सवदी, ननराली प्रकाशन पुणे
2. हवामान व सागरवज्ञान -डॉ शंकररावशेठे, अभिजित प्रकाशन लातूर
3. हवामान व सागरवज्ञान- डॉ गिहंस/ डॉ पाथरे,ववद्या बुक्स पजललशर

**ReferenceBook:**

1. Barry R. G. and Carleton A. M., 2001: Synoptic and Dynamic Climatology, Routledge, UK.
2. Barry R. G. and Corley R. J., 1998: Atmosphere, Weather and Climate, Routledge, New York.
3. Critch field H. J., 1987: General Climatology, Prentice-Hall of India, New Delhi
4. Lutgens F. K., Tarbuck E. J. and Tasa D., 2009: The Atmosphere: An Introduction to Meteorology, Prentice-Hall, Englewood Cliffs, New Jersey.
5. Oliver J. E. and Hidore J. J., 2002: Climatology: An Atmospheric Science, Pearson Education, New Delhi.
6. Trewartha G. T. and Horne L. H., 1980: An Introduction to Climate, McGraw-Hill.
7. Gupta L S(2000): Jalvayu Vigyan, Hindi Madhyam Karyanvay Nidishalya, Delhi Vishwa Vidhyalaya, Delhi
8. Shinde P.; Pednekar H. et.al. (2010): Introduction to Geography, Sheth Publishers Pvt.Ltd., Mumbai.
9. Lal, D S (2006): Jalvayu Vigyan, Prayag Pustak Bhavan, Allahabad
10. Vatal, M (1986): Bhautik Bhugol, Central Book Depot, Allahabad
11. Singh, S (2009): Jalvayu Vigyan, Prayag Pustak Bhawan, Allahabad

**Bachelor of Arts**  
**BASY Semester -III**  
**Subject: Geography**  
**Course Code – GP-DSC 7**  
**Title of Course- Introduction of Climatology (Practical)**

**Total Credit: 02**  
**Total Contact Hours: 60 Hrs.**  
**Maximum Marks: 50**

**Learning Objectives of the Course:**

- I. Learn about different meteorological instruments, including thermometers, dry & wet bulb thermometers, rain gauges, wind vanes, cup anemometers, hygrometers, and aneroid barometers.
- II. Acquire practical knowledge in measuring and recording meteorological parameters such as temperature, humidity, wind speed, and atmospheric pressure.
- III. Understand and utilize various cartographic methods, including climographs, hythergraphs, and star diagrams for representing weather data.
- IV. Develop skills to read and interpret weather symbols, signs, and forecasts as used in the Indian Meteorological Department (IMD) reports.
- V. Learn to analyze IMD weather reports for different seasons (summer, winter, and rainy) and understand their climatic variations and impacts.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

- I. Identify and describe the working principles and applications of various weather instruments.
- II. Demonstrate the ability to measure, record, and analyze weather parameters using standard meteorological instruments.
- III. Represent and interpret statistical weather data using climographs, hythergraphs, and star diagrams.
- IV. Analyze and interpret weather symbols, signs, and forecasts used in the Indian Meteorological Department (IMD) reports.
- V. Interpret IMD weather reports for different seasons (summer, winter, and rainy seasons) to understand seasonal variations and their impact.

**Course Contents**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Study of Weather Instruments: -</b> Thermometer:- Simple, Minimum & Maximum, Dry & Wet Bulb, Rain-guage, Wind Vane, Cup Anemometer, Hygrometer, Aneroid Barometer.	20
II	<b>Cartographic Techniques:</b> Representation of statistical data by using following Cartographic Techniques: 1] Climograph 2] Hythergraph 3] Star Diagram 4] Wind Rose	20

III	<p><b>Indian Daily weather report:</b> - Signs and symbol used in IDWR.  <b>Interpretation of Indian Daily weather report:</b> - Summer, Winter and Rainy Season</p>	20
<p><b>TextBooks:</b></p> <ol style="list-style-type: none"> <li>1. डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल, सुमेरू पब्लिकेशन डोबिवली, मुंबई.</li> <li>2. डॉ. पी. एम. नागतोडे : प्रात्यक्षिक भूगोल,</li> <li>3. डॉ. व्ही. जे. पाटील व डॉ. ए. पी. चौधरी: प्रात्यक्षिक भूगोल, प्रशांत पब्लिकेशन, जळगाव.</li> <li>4. डॉ. जयकुमार मगर व जगताप : प्रात्यक्षिक भूगोल</li> </ol>		
<p><b>ReferenceBook:</b></p> <ol style="list-style-type: none"> <li>5. A Practical Geography: A Systematic Approach-<i>Author:</i> Ashis Sarkar- <i>Publisher:</i> Orient Blackswan</li> <li>6. Practical Geography-<i>Authors:</i> Monika Kannan and Shilpi Yadav-<i>Publisher:</i> Rawat Publications</li> <li>7. Study Skills for Geography Students: A Practical Guide-<i>Author:</i> Pauline E. Kneale-<i>Publisher:</i> Arnold Publishers</li> <li>8. Practising Practical Geography: -Electra Maria, Karandikar <i>Publisher:</i> Printers Devils</li> <li>9. Map Work and Practical Geography-<i>Author:</i> Gopal Singh-<i>Publisher:</i> Vikas Publishing</li> <li>10. Advanced Cartography and Practical Geography-M.M.P. Sinha &amp; Seema Bala, Rajesh Publications</li> <li>11. Text Book of Practical Geography-Md. Zulfequar Ahmad Khan,<i>Publisher:</i> Barnes &amp; Noble</li> <li>12. B.V.Ramana Rao, Surender Singh and V. Uma M Rao: Conceptual Metrology- A color Handbook</li> <li>13. Pal S.K.: Statistics for Geosciences, Techniques and Application, Concept, New Delhi, 1998.</li> <li>14. Misra R.P. and Ramesh : A Fundamentals of Cartography,McMillen Co. New Delhi, 1986</li> <li>15. Monkhouse F.J. : Maps and Diagrams.</li> <li>16. Robinson A.H. : elements of cartography, John Waley and Sons, USA, 1995.</li> <li>17. Singh and Kanoujia : Map Work and Practical Geography.</li> </ol>		

**Bachelor of Arts**  
**B.A.S.Y. (Semester-III)**  
**Subject -Geography**  
**Course Code – GT-DSC -VIII**  
**Title of Course- Population Geography**

**Total Credit: 02**

**Total Contact Hours: 30 Hrs.**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

By the end of this course, students will be able to:

- I. Learn its definition, scope, and significance in geography.
- II. Explore sources of population data and factors affecting population distribution and density.
- III. Study population growth, its causes, effects, and concepts like optimum and overpopulation.
- IV. Understand how population growth affects resources, climate, and urbanization.
- V. Learn about India's population policies and their role in managing demographic challenges

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

- I. Students will be able to define population geography, understand its nature, and delineate its scope within the broader field of geography.
- II. Students will assess physical, socio-cultural, and demographic factors influencing population distribution and density.
- III. Students will comprehend these concepts and their implications for resource use and sustainability.
- IV. Students will recognize key issues at the intersection of population growth and human well-being.

**Course Contents**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Introduction to Population Geography</b> <ul style="list-style-type: none"> <li>• Definition, Nature, and Scope of Population Geography</li> <li>• Development of Population Geography</li> <li>• Importance of Population Studies in Geography</li> </ul>	10
II	<b>Population Data and Distribution</b> <ul style="list-style-type: none"> <li>• <b>Sources of Population Data</b> The Census: Definition, Significance, and Methodologies</li> <li>• <b>Distribution and Density of Population</b> Measures of Population Distribution and Concentration Factors Affecting Population Distribution and Density: <b>Physical Factors</b> (Climate, Topography, Soil, Water Availability, Natural Resources) <b>Socio-cultural Factors</b> (Historical Factors, Social Structure,</li> </ul>	10

	<p>Economic Opportunities, Political Stability)  <b>Demographic Factors</b> (Fertility, Mortality, Migration)</p>	
<b>III</b>	<p><b>Population, Resources, and Environment</b>  <b>Population and Resources</b>  Population Growth  Causes and Effects of Population Growth  Concepts of Optimum Population, Overpopulation, and Underpopulation  <b>Population and Environment</b>  Basic Issues in Population Growth and Human Well-being  Impact of Population Growth on the Environment  (Deforestation, Pollution, Climate Change, Urbanization)  Population Policy of India</p>	<b>10</b>
<b>TextBooks:</b>		
<ol style="list-style-type: none"> <li>1. लोकसंख्या -प्रा अहिरराव, प्रा अलीझाड आणि इतर – निराली प्रकाशन</li> <li>2. लोकसंख्या भूगोल- के ए खातीब विद्या बुक्स पब्लिशर</li> <li>3. लोकसंख्या भूगोल- ए बी सवदी/ पी यस कोळेकर - निराली प्रकाशन</li> </ol>		
<b>ReferenceBook:</b>		
<ol style="list-style-type: none"> <li>1. Reading List 1. Barrett H. R., 1995: Population Geography, Oliver and Boyd.</li> <li>2. Bhende A. and Kanitkar T., 2000: Principles of Population Studies, Himalaya Publishing House.</li> <li>3. Chandna R. C. and Sidhu M. S., 1980: An Introduction to Population Geography, Kalyani Publishers.</li> <li>4. Clarke J. I., 1965: Population Geography, Pergamon Press, Oxford.</li> <li>5. Jones, H. R., 2000: Population Geography, 3rd ed. Paul Chapman, London.</li> <li>6. Lutz W., Warren C. S. and Scherbov S., 2004: The End of the World Population Growth in the 21st Century, Earthscan</li> <li>7. Newbold K. B., 2009: Population Geography: Tools and Issues, Rowman and Littlefield Publishers.</li> <li>8. Pacione M., 1986: Population Geography: Progress and Prospect, Taylor and Francis.</li> <li>9. Wilson M. G. A., 1968: Population Geography, Nelson.</li> <li>10. Panda B P (1988): Janasankya Bhugol, M P Hindi Granth Academy, Bhopal</li> <li>11. Maurya S D (2009) Jansankya Bhugol, Sharda Putak Bhawan, Allahabad</li> <li>12. Chandna, R C (2006), Jansankhya Bhugol, Kalyani Publishers, Delhi</li> </ol> <ul style="list-style-type: none"> <li>• Census reports and government publications</li> <li>• Relevant online and academic resources</li> </ul>		

**Bachelor of Arts**  
**B.A.S.Y. (Semester-III)**  
**Subject -Geography**  
**Course Code – GP-DSC -VIII**  
**Title of Course- Population Geography Practical**

**Total Credit: 02**

**Total Contact Hours: 60 Hrs.**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

- i. Learn to calculate arithmetic, agricultural, and nutritional density using real-world data.
- ii. Compute and interpret net population growth and growth rates.
- iii. Develop skills in making quantitative and qualitative maps.
- iv. Practice drawing bar graph maps, proportional circles, squares, and spheres.
- v. Learn to read and analyze different types of population distribution maps effectively.

**Course Outcomes (COs):**

- i. **Apply Population Density Measures** – Accurately calculate and interpret arithmetic, agricultural, and nutritional density.
- ii. **Analyze Population Growth Trends** – Compute net population growth and growth rates using demographic data.
- iii. **Construct Various Distributional Maps** – Create and present quantitative and qualitative maps for population studies.
- iv. **Demonstrate Diagrammatic Mapping Skills** – Effectively use bar graphs, proportional circles, squares, and spheres to visualize population data.
- v. **Interpret and Evaluate Map-Based Data** – Analyze and draw conclusions from different population distribution maps.

**Course Contents**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Population Density</b> <ul style="list-style-type: none"> <li>• Arithmetic Density,</li> <li>• Agricultural Density,</li> <li>• Nutritional Density</li> </ul>	20
II	<b>Population Growth</b> <ul style="list-style-type: none"> <li>• Net Population Growth</li> <li>• Population Growth Rate</li> <li>• Average Population Growth Rate</li> </ul>	20
III	<b>Distributional Maps:</b> <ul style="list-style-type: none"> <li>• <b>Quantitative Maps:</b> -  Diagrammatic Maps- Bargraph Maps, located proportional Circles, located proportional Squares, located proportional Spheres, Located proportional Cubes,</li> </ul>	20

- |  |   |  |
|--|---|--|
|  | <ul style="list-style-type: none"><li>• <b>Qualitative Maps-</b><br/>Color-Patch Method, Shade Method,<br/>Choro-schematic/ Symbol Method</li></ul> |  |
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***TextBooks:***

1. डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल, सुमेरू पब्लिकेशन डोबिवली, मुंबई.
2. डॉ. पी. एम. नागतोडे : प्रात्यक्षिक भूगोल,
3. डॉ. व्ही. जे. पाटील व डॉ. ए. पी. चौधरी: प्रात्यक्षिक भूगोल, प्रशांत पब्लिकेशन, जळगाव.
4. डॉ. जयकुमार मगर व जगताप : प्रात्यक्षिक भूगोल.

***ReferenceBook:***

1. **A Practical Geography: A Systematic Approach**-*Author:* Ashis Sarkar-  
*Publisher:* Orient Blackswan
2. **Practical Geography**-*Authors:* Monika Kannan and Shilpi Yadav-*Publisher:*  
Rawat Publications
3. **Study Skills for Geography Students: A Practical Guide**-*Author:* Pauline  
E. Kneale-*Publisher:* Arnold Publishers
4. **Practising Practical Geography:** -Electra Maria, Karandikar *Publisher:*  
Printers Devils
5. **Map Work and Practical Geography**-*Author:* Gopal Singh-*Publisher:* Vikas  
Publishing
6. **Advanced Cartography and Practical Geography**-M.M.P. Sinha & Seema  
Bala, Rajesh Publications
7. **Text Book of Practical Geography**-Md. Zulfequar Ahmad Khan,*Publisher:* Barnes  
& Noble

**Bachelor of Arts**  
**B.A.S.Y. (Semester-III)**  
**Subject -Geography**  
**Course Code – GT.M -I**  
**Title of the Course- Geography of Marathwada**

**Total Credit: 02**

**Total Contact Hours: 30 Hrs.**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. To acquaint students with Geography of our Region.
2. To make students aware of the magnitude of problems and prospects in the region.
3. To help students understand the recent trends in regional studies.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

1. Describe the Physical Setting of Marathwada.
2. Describe the Climate characteristics of Marathwada.
3. Explain the agriculture and Industries development of Marathwada

**Course Contents**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Introduction</b> <b>1.1 Historical and Political Background</b> <ul style="list-style-type: none"> <li>• Brief history of Marathwada</li> <li>• Political developments and administrative setup</li> </ul> <b>1.2 Physical Geography</b> <ul style="list-style-type: none"> <li>• <b>Location, Size, and Shape</b> of Marathwada</li> <li>• <b>Climate:</b> Seasonal variations, temperature, and rainfall</li> <li>• <b>Drainage System:</b> Major rivers, tributaries, and their significance</li> <li>• <b>Natural Vegetation:</b> Types and distribution</li> <li>• <b>Soils:</b> Types, characteristics, and agricultural importance</li> </ul>	10
II	<b>Agriculture in Marathwada</b> <b>2.1 Major Crops</b> <ul style="list-style-type: none"> <li>• Jowar, Cotton, Sugarcane, Oilseeds, Pulses</li> <li>• Geographical Conditions for Cultivation</li> <li>• Production and Distribution Patterns</li> </ul> <b>2.2 Irrigation System</b> <ul style="list-style-type: none"> <li>• Types of Irrigation (Canals, Wells, Tube Wells, etc.)</li> <li>• Problems in Irrigation Development</li> </ul> <b>2.3 Drought-Prone Areas</b> <ul style="list-style-type: none"> <li>• Identification of affected areas</li> <li>• Problems Faced Due to Drought</li> <li>• Management Strategies to combat drought</li> </ul>	10

<b>III</b>	<p><b>Industrial and Economic Development</b></p> <p><b>3.1 Industrial Development</b></p> <ul style="list-style-type: none"> <li>• Types of Industries in Marathwada</li> <li>• Growth and Development Trends</li> </ul> <p><b>3.2 Major Industries in Marathwada</b></p> <ul style="list-style-type: none"> <li>• <b>Sugar Industry:</b> Production and economic importance</li> <li>• <b>Oil Industry:</b> Types and role in regional economy</li> <li>• MIDC (Maharashtra Industrial Development Corporation) and its role</li> </ul>	<b>10</b>
<p><b>TextBooks:</b></p> <ol style="list-style-type: none"> <li>1. महाराष्ट्राचा भूगोल (Geography of Maharashtra) लेखक: डॉ. वसंत काणे</li> <li>2. महाराष्ट्र भूगोल (Maharashtra Geography) लेखक: डॉ. द. मा. मिरासदार</li> <li>3. मराठवाडा भूगोल (Geography of Marathwada) लेखक: डॉ. श्रीपतराव मुळक</li> <li>4. भारताचे भूगोल (Geography of India) लेखक: डॉ. र. ग. तिवारी</li> <li>5. महाराष्ट्र भूगोल व पर्यावरण लेखक: डॉ. शं. ना. नवरे</li> <li>6. महाराष्ट्र राज्याचा भूगोल (Geography of Maharashtra State) लेखक: डॉ. न. मा. कुलकर्णी</li> <li>7. महाराष्ट्रातील भौगोलिक परिस्थिती लेखक: डॉ. प. ना. देशमुख</li> <li>8. महाराष्ट्राचा भूगोल (Geography of Maharashtra) लेखक: प्रा. ए. बी. सवदी.</li> <li>9. महाराष्ट्राचा भूगोल (Geography of Maharashtra) लेखक: प्रा. डॉ. ताठे सर्जेराव</li> <li>10. महाराष्ट्राचा भूगोल Geography of Maharashtra. लेखक: हंगे ए. क. वाघमारे एच. एस.</li> </ol>		
<p><b>ReferenceBook:</b></p> <ol style="list-style-type: none"> <li>1. Bhamare, S.M., (2013). Geography of Maharashtra, Prashant Publication, Jalgaon.</li> <li>2. Census Report – 2011, Government of India.</li> <li>3. Deshpande, C. D., (1971). Geography of Maharashtra. National Book Trust, New Delhi.</li> <li>4. Diddee, J., et al. (2002). Geography of Maharashtra, Rawat Publication, Jaipur.</li> <li>5. Dixit, K.R., (1986). Maharashtra in Maps. Maharashtra State Board for Literature and Culture Mantralaya, Bombay (Mumbai).</li> <li>6. Government of India: The Gazetteer of India, -1965. Vol. I &amp; II, Publication Division, New Delhi.</li> <li>7. Majid Hussain (2014): Geography of India, McGraw Hill Education (India) Private education, New Delhi.</li> <li>8. Memoria, C. B., (1986). Geography of India, Shival Agrawal &amp; Co., Agra.</li> <li>9. Savadi, A.B., (2020). The Mega State -Maharashtra. Nirali Prakashan, Pune.</li> </ol>		

**B. A. S. Y. (Semester-III)**  
**Subject -Geography**  
**M2: - General Geography (Theory)**

**Total Credits: 02**  
**Total Contact Hours:30**  
**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. Understand the meaning, definition, scope, and branches of Geography.
2. Learn fundamental concepts in Physical Geography, including latitudes, longitudes, and Earth measurements.
3. Explore key aspects of Human Geography, such as population dynamics, economic activities, and human settlements.

**Course Outcomes (Cos):**

After completion of the course, students will be able to-

1. Explain the fundamental principles and scope of Geography and its branches.
2. Analyze geographical coordinates, grid systems, and Earth measurements for spatial understanding.
3. Evaluate human population patterns, economic activities, and settlement systems in relation to geography.

<b>Module No.</b>	<b>Topic</b>	<b>Contact Hours</b>
<b>I</b>	<b>Introduction of Geography</b> Meaning of Geography Definition of Geography Scope of Geography Branches of geography	10
<b>II</b>	<b>Fundamental Concept in Physical Geography:</b> Latitudes, Longitudes, Grid Information International Date line Earth measurements	10
<b>III</b>	<b>Fundamental Concept in Human Geography:</b> <b>Population:</b> Density, Sex ratio, Growth, Literacy, Migration etc. <b>Economics:</b> Economic activity, Transportation and Communication, Human Settlements etc.	10

**Reference Book:**

1. Husain, M., (2002): Fundamentals of Physical Geography, Rawat Publications, Jaipur.
2. Monkhouse, F. J. (2009): Principles of Physical Geography, Platinum Publishers, Kolkata.
3. Singh, Savindra. (2018): Bhoutik Bhugol, Prayag Pustak Bhawan, Allahabad.
4. Strahler, A. N. and Strahler, A. H., (2008): Modern Physical Geography, John Wiley & Sons, New York.
5. Chandna, R.C. (2010) Population Geography, Kalyani Publisher, New Delhi.
6. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur.
7. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan, Allahabad.

**Bachelor of Arts  
B.A.S.Y. (Semester-III)  
Subject -Geography  
Course Code-GT.GE/OE-III**

**Title of the Course- World Heritage Center in Maharashtra**

**Total Credit: 02**

**Total Contact Hours: 30 Hrs.**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

- I. Define and explain the meaning and historical background of cultural heritage.
- II. Explore key concepts, characteristics, and types of Indian cultural heritage.
- III. Examine the historical context and significance of these heritage sites.
- IV. Assess the biodiversity and conservation value of these heritage sites.
- V. Evaluate tourism management strategies and sustainable tourism practices.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

- I. Appreciate Historical heritage and tourist destinations
- II. Critically appreciate the heritage site
- III. Adopt the art of documenting the heritage site
- IV. Analyze the basic character of heritage

**Course Contents**

	<b>Topics/actual contents of the syllabus</b>	<b>Contact Hours</b>
<b>I</b>	<b>Introduction to World Heritage Sites</b> <ul style="list-style-type: none"> <li>• Meaning, Definition and Historical background of Cultural Heritage</li> <li>• Concepts, Characteristics types of Indian Cultural Heritage</li> <li>• Impact and significance of geography on Indian culture.</li> <li>• Significance of Cultural Heritage in Human life.</li> </ul>	<b>10</b>
<b>II</b>	<b>Ajanta, Ellora and Khajuraho, World Heritage Sites</b> <ul style="list-style-type: none"> <li>• Historical context and significance of the site</li> <li>• Architectural and artistic features of the site</li> <li>• Cultural and spiritual practices associated with the site</li> <li>• Geological and ecological features of the site</li> <li>• Biodiversity and conservation significance of the site</li> <li>• Natural hazards and risk management at the site</li> </ul>	<b>10</b>
<b>III</b>	<b>Tourism and Human Impact</b> <ul style="list-style-type: none"> <li>• Tourism management and sustainable tourism practices.</li> <li>• Human impact on the site's integrity and conservation.</li> <li>• Strategies for mitigating negative impacts and promoting positive outcomes.</li> </ul>	<b>10</b>

**ReferenceBook:**

1. UNESCO World Heritage Centre publications and reports
2. Academic articles and books on cultural and natural heritage management
3. Site-specific documents and management plans
4. Online resources and multimedia materials (e.g., videos, podcasts, and interactive websites)
5. 1.Barakat, Ali Abu, 2015. Travel and Tourism Management, New Delhi, PHI Learning Publishers.
6. 2.Dilip M.R., 2020. Tourism: Concepts Theory and Practices, New Delhi, Dreamtch Press.
7. 3.Dallen, J Timothy, 2011. Cultural heritage and Tourism an Introduction, Channel view Publication.
8. 4.Mathur Arpita, 2020. Fundamentals of Travel and Tourism, Ane Books Pvt. Ltd.
9. 5.Prof. Quazi S. A , 2000. Geography of India, New Delhi, A.P.H. Publishing Cooperation.
10. 6.Swain Sampad Kumar, 2011. Tourism Principles and Practices, New Delhi, Oxford University Press.
11. 7.Seth Pran Nath, 2003. An Introduction to Travel and Tourism, New Delhi, Penguin Books Ltd.
12. K.T Achaya, Indian food: A Historical Companion, oxford University Press, 1998.
13. Banga, I. (ed).: The City in Indian History : Urban Demography, Society and Politics, Delhi,Manohar, 1991
14. A.L Basham: The wonder that was India. Picador Publisher, Indian ed. 2014
15. Sachin Shekhar Biswas: Protecting the Cultural Heritage (National Legislation and International Convention
16. N.K Bose :“Culture Zones of India” in culture and Society in India, Asia publishing House
17. Ramdhari Singh Dinkar: Sanskriti ke chaar Adhyaya, Udyanchal Publishers
18. Gokulsing, K. Moti : Popular Culture in a Globalized India, New Delhi, Routledge, 2009
19. Kathryn Hansen: Grounds for play, The Nautanki Theatre of north India, University of California
20. Bhanu Shankar Mehta: Ramlila Varied Respective , B.R Publishing Corporation, 2011
21. S.Narayan: Indian Classical Dances, Shubhi Publications, 2005.s
22. Prakash, H.S :Shiva Traditional Theatres, Incredible India Series, New Delhi, 2007

**Bachelor of Arts**  
**BASY Semester -III**  
**Subject: -Geography**  
**Course Code – GT -VSC- 2**  
**Title of Course- IMD Theory**

**Total Credit: 01**  
**Total Contact Hours: 30 Hrs.**  
**Maximum Marks: 50**

**Learning Objectives of the Course:**

- I. Understand the role of the Indian Meteorological Department (IMD) and its significance in weather forecasting and disaster management.
- II. Identify and interpret key weather elements such as temperature, humidity, air pressure, wind speed, rainfall, and cloud cover.
- III. Analyze IMD weather reports and synoptic charts, understanding symbols, notations, and meteorological data representation.
- IV. Use weather instruments and modern technology. (e.g., satellites and radar) for data collection and weather monitoring.
- V. Prepare a structured weather report, including observations, graphical representations, and conclusions based on real-time data.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

- I. Explain the functions of the Indian Meteorological Department (IMD) and the importance of weather forecasting in various sectors.
- II. Interpret key meteorological parameters such as temperature, humidity, air pressure, wind speed, and precipitation using IMD reports.
- III. Analyze synoptic weather charts and satellite imagery to identify weather patterns, pressure systems, and wind directions.
- IV. Demonstrate the use of weather instruments (e.g., thermometer, barometer, anemometer, rain gauge) and modern technologies for weather monitoring.
- V. Prepare a structured weather report with graphical data representation, observations, and conclusions based on IMD weather data.

**Course Contents**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Introduction to IMD and Weather Parameters:</b> 1. <b>Introduction to the Indian Meteorological Department (IMD):</b> History and functions of IMD, General Information of Headquarter and Regional centers of IMD, Importance of weather forecasting and daily weather reports.	10

	<p><b>2. Weather Elements and their use in IMD Maps:</b> Temperature, Humidity and Dew Point, Air Pressure and Wind, Rainfall and Cloud Cover.</p> <p><b>3.Types of Weather Reports:</b> Synoptic weather charts, Satellite imagery Climatological data.</p>	
II	<p><b>Significance and Uses of Weather Maps:</b> Significance of the analysis of Indian Daily Weather report forecast in various sectors including agriculture, transportation, fishing, and disaster management.</p>	10
III	<p><b>Weather instruments and Measurement details study:</b> Thermometer, Weight and dry bulb thermometer, Barometer, Hygrometer, Anemometer, Rain gauge and wind vane.</p>	10
<p><b>TextBooks:</b></p> <ol style="list-style-type: none"> <li>1. डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल, सुमेरु पब्लिकेशन डोबिवली, मुंबई.</li> <li>2. डॉ. पी. एम. नागतोडे : प्रात्यक्षिक भूगोल,</li> <li>3. डॉ. व्ही. जे. पाटील व डॉ. ए. पी. चौधरी: प्रात्यक्षिक भूगोल, प्रशांत पब्लिकेशन, जळगाव.</li> <li>4. डॉ. जयकुमार मगर व जगताप : प्रात्यक्षिक भूगोल.</li> <li>5. A Practical Geography: A Systematic Approach-<i>Author:</i> Ashis Sarkar-<i>Publisher:</i> Orient Blackswan</li> <li>6. Practical Geography-<i>Authors:</i> Monika Kannan and Shilpi Yadav-<i>Publisher:</i> Rawat Publications</li> <li>7. Study Skills for Geography Students: A Practical Guide-<i>Author:</i> Pauline E. Kneale-<i>Publisher:</i> Arnold Publishers</li> <li>8. Practising Practical Geography: -Electra Maria, Karandikar <i>Publisher:</i> Printers Devils</li> <li>9. Map Work and Practical Geography-<i>Author:</i> Gopal Singh-<i>Publisher:</i> Vikas Publishing</li> <li>10. Advanced Cartography and Practical Geography-M.M.P. Sinha &amp; Seema Bala, Rajesh Publications</li> <li>11. Text Book of Practical Geography-Md. Zulfequar Ahmad Khan,<i>Publisher:</i> Barnes &amp; Noble</li> </ol>		
<p><b>ReferenceBook:</b></p> <ol style="list-style-type: none"> <li>1. B.V. Ramana Rao, Surender Singh and V. Uma M Rao: Conceptual Metrology- A color Handbook</li> <li>2. Pal S.K.: Statistics for Geosciences, Techniques and Application, Concept, New Delhi, 1998.</li> <li>3. Misra R.P. and Ramesh: A Fundamentals of Cartography, McMillen Co. New Delhi, 1986.</li> <li>4. Monkhouse F.J.: Maps and Diagrams.</li> <li>5. Robinson A.H.: elements of cartography, John Waley and Sons, USA, 1995.</li> <li>6. Singh and Kanoujia: Map Work and Practical Geography.</li> </ol>		

**Bachelor of Arts**  
**BASY Semester -III**  
**Subject: Geography**  
**Course Code – GP -VSC- 2**  
**Title of Course- IMD Practical**

**Total Credit: 01**  
**Total Contact Hours: 60 Hrs.**  
**Maximum Marks: 50**

**Learning Objectives of the Course:**

- I. Understand the role of the Indian Meteorological Department (IMD) and its significance in weather forecasting and disaster management.
- II. Identify and interpret key weather elements such as temperature, humidity, air pressure, wind speed, rainfall, and cloud cover.
- III. Analyze IMD weather reports and synoptic charts, understanding symbols, notations, and meteorological data representation.
- IV. Use weather instruments and modern technology. (e.g., satellites and radar) for data collection and weather monitoring.
- V. Prepare a structured weather report, including observations, graphical representations, and conclusions based on real-time data.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

- I. Explain the functions of the Indian Meteorological Department (IMD) and the importance of weather forecasting in various sectors.
- II. Interpret key meteorological parameters such as temperature, humidity, air pressure, wind speed, and precipitation using IMD reports.
- III. Analyze synoptic weather charts and satellite imagery to identify weather patterns, pressure systems, and wind directions.
- IV. Demonstrate the use of weather instruments (e.g., thermometer, barometer, anemometer, rain gauge) and modern technologies for weather monitoring.
- V. Prepare a structured weather report with graphical data representation, observations, and conclusions based on IMD weather data.

**Course Contents**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>General information of IMD weather Maps:</b> Familiarization with the format, content and updates of the Indian Daily Weather report issued by IMD.	20

II	<b>Indian daily weather reports:</b> Weather signs and symbols, Interpretation of weather signs & symbols used in IMD weather report. and forecast including cloud types, wind direction and atmospheric pressure.	20
III	<b>Interpretation of Indian weather maps:</b> Seasonal weather patterns - Analysis of weather maps for different season. Summer, Rainy and Winter season.	20

**TextBooks:**

1. डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल, सुमेरू पब्लिकेशन डोबिवली, मुंबई.
2. डॉ. पी. एम. नागतोडे : प्रात्यक्षिक भूगोल,
3. डॉ. व्ही. जे. पाटील व डॉ. ए. पी. चौधरी: प्रात्यक्षिक भूगोल, प्रशांत पब्लिकेशन, जळगाव.
4. डॉ. जयकुमार मगर व जगताप : प्रात्यक्षिक भूगोल.
5. **A Practical Geography: A Systematic Approach**-Author: Ashis Sarkar-  
Publisher: Orient Blackswan
6. **Practical Geography**-Authors: Monika Kannan and Shilpi Yadav-  
Publisher: Rawat Publications
7. **Study Skills for Geography Students: A Practical Guide**-Author:  
Pauline E. Kneale-Publisher: Arnold Publishers
8. **Practising Practical Geography**: -Electra Maria, Karandikar Publisher:  
Printers Devils
9. **Map Work and Practical Geography**-Author: Gopal Singh-Publisher: Vikas  
Publishing
10. **Advanced Cartography and Practical Geography**-M.M.P. Sinha & Seema  
Bala, Rajesh Publications
11. Text Book of Practical Geography-Md. Zulfequar Ahmad Khan, Publisher: Barnes  
& Noble

**ReferenceBook:**

1. B.V. Ramana Rao, Surender Singh and V. Uma M Rao: Conceptual Metrology- A  
color Handbook
2. Pal S.K.: Statistics for Geosciences, Techniques and Application,  
Concept, New Delhi, 1998.
3. Misra R.P. and Ramesh: A Fundamentals of Cartography, McMillen  
Co. New Delhi, 1986.
4. Monkhouse F.J.: Maps and Diagrams.
5. Robinson A.H.: elements of cartography, John Waley and  
Sons, USA, 1995.
6. Singh and Kanoujia: Map Work and Practical Geography.

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**DSC 9 :- Climatology-II (Theory)**

**Total Credits: 02**  
**Total Contact Hours:30**  
**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. To understand the definition, scope, and importance of applied climatology.
2. To analyze the impact of climate on agriculture and crop suitability.
3. To study the relationship between climate and human health, including diseases and risks.
4. To examine the role of climate in natural disasters and disaster management.
5. To explore adaptive strategies for health and disaster risk reduction.

**Course Outcomes (Cos):**

After completion of the course, students will be able to-

1. Explain the concept and significance of applied climatology.
2. Identify the effects of climate on agriculture and different agro-climatic zones.
3. Assess climate-related health issues and strategies for protection.
4. Analyze the role of climate in disasters and mitigation measures.
5. Apply knowledge of climate risk assessment and disaster preparedness.

Module No.	Topic	Contact Hours
I	<b>Air Masses and Fronts:</b> Concept, Classification of airmass, Fronts. Cyclones – Tropical Cyclones, Anticyclones, Thunderstorms and Tornadoes	10
II	<b>Humidity –</b> Evaporation, Types of Humidity, <b>Monsoon -</b> Origin and Mechanism.	10
III	<b>Condensation</b> Fog and Clouds-Types, Precipitation- Types, Koppen's Clasification of Climatic Region.	10

**Text Books:**

- 1) ए. पी. चौधरी, अर्चना चौधरी- हवामानशास्त्र, आवृत्ती-१, प्रशांत पब्लिकेशन. आय.एस. बी एन.-९३८१०२१४१४, २०१५
- 2) डॉ. देवेंद्र बिसेन, डॉ. नानाभाऊ कुदनार- हवामानशास्त्र, साई ज्योती पब्लिकेशन, आय.एस. बी एन.-९७८९३८३०११५७२, २०१८
- 3) डॉ. विठ्ठल धारपुरे- हवामानशास्त्र, पिंपळपुरे अँड कंपनीशर्स ., आय.एस. बी एन.-९७८९३८१५५२१९३,२०१६
- 4) डॉ. डी एच.चौधरी, डॉ. सतीश जाधव- हवामानशास्त्र, चिन्मय प्रकाशन, आय.एस. बी एन.-९७८९३८१९४८०५७,२०१९

**Reference Book:**

- 1] Barry R.G. and Chorley R.J. : Atmosphere, Weather andClimate, Routledge. 1998.
- 2] Critch Field H. : General Climatology, Prentice, Hall, NewYork, 1975.
- 3] Lydolph, Paul, E. : The Climate of the Earth, Rowman andAllanheld, Totowa N.J. 1958.
- 4] Triwartha G.T. : An Introduction to Climate, InternationalStudent's edition, McGraw-Hill, New York, 1975

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**DSC 9 :- Climatology-II (Practical)**

**Total Credits: 02**

**Total Contact Hours:60**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. To understand methods of measuring temperature and humidity.
2. To analyze rainfall patterns and their impact on the environment.
3. To learn techniques for collecting and interpreting climate data.
4. To develop skills in graphical representation of weather data.
5. To assess climate variability and its effects on agriculture and water resources.

**Course Outcomes (Cos):**

After completion of the course, students will be able to-

1. Measure and analyze temperature variations using thermometers.
2. Calculate and interpret humidity levels using hygrometers and psychrometric tables.
3. Collect and assess rainfall data using rain gauges and statistical methods.
4. Represent climate data through graphs and analyze trends.
5. Apply climate data analysis for understanding environmental and agricultural impacts.

Module No.	Topic	Contact Hours
I	<b>Representation of Climatic Data with help Cartographic Techniques</b> 1. Line graph 2. Bar graph 3. Line and Bar graph 4. Isobars, 5. Isotherms, 6. Isohyets.	20
II	<b>Projection :- Types of Projection</b> 1. Zenithal Gnomonic Projection 2. Zenithal Equal area Projection 3. Simple conical Projection with one standard parallel 4. Conical Projection with two Standard parallel. 5. Cylindrical Equal area Projection.	20
III	<b>Representation of Statistical Data:-</b> 1. Dot Methods 2. Divided circle 3. Divided Rectangle 4. Proportional circles 5. Choropleth Map	20

**Text Books:**

- 1) डॉ. पी.एम.नागतोडे, डॉ लांजेवार : नकाशाशास्त्र व प्रात्यक्षिक भूगोलशास्त्र, विद्या प्रकाशन नागपूर
- 2) डॉ. व्ही. जे पाटील व ए. पी. चौधरी, - प्रात्यक्षिक भूगोल प्रशांत पब्लिकेशन. जळगाव
- 3) डॉ. जयकुमार मगर व प्रा. जगताप प्रात्यक्षिक भूगोल
- 4) डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल सुमेरू पब्लिकेशन.मुंबई

**Reference Book:**

- 1] Pijushkanti Saha, Partha Baasu:- Advanced Practical Geography, Books & Allied(P) Ltd.
- 2] Barry R.G. and Chorley R.J. : Atmosphere, Weather andClimate, Routledge. 1998.
- 3] Critch Field H. : General Climatology, Prentice, Hall, NewYork, 1975.
- 4] Lydolph, Paul, E. : 'The Climate of the Earth, Rowman andAllanheld, Totowa N.J. 1958.

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**DSC10 :- Demography (Theory)**

**Total Credits: 2**

**Total Contact Hours:30**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. Learn the definition, scope, and importance of demography.
2. Explore factors affecting sex ratio, age structure, and literacy.
3. Understand fertility, mortality, and migration and their impacts.
4. Study key theories by Malthus, Marx, Ricardo, and the Demographic Transition Theory.
5. Examine how population changes influence society and the economy.

**Course Outcomes (Cos):**

After completion of the course, students will be able to-

1. Define and explain the scope and significance of demography, including key concepts such as population, fertility, mortality, and migration.
2. Examine the factors influencing sex and age composition, economic composition, and literacy rates, with a focus on India's demographic structure.
3. Evaluate measures of fertility and mortality, their determinants, and trends in India, along with the impact of migration on population dynamics.
4. Understand and critically assess major population theories, including the Demographic Transition Theory, and perspectives of Malthus, Marx, and Ricardo.
5. Analyze how demographic changes impact economic development, resource distribution, and policy-making, particularly in the Indian context

Module No.	Topic	Contact Hours
I	<b>Introduction to Demography:</b> Definition, Nature and scope. Significance of Demography. <b>Population Composition:</b> Sex Composition- Determinants of Sex Structure and Sex Ratio Age Composition- Determinants of Age Structure and Age Structure Economic Composition- Literacy- The Concept, Determinants of Literacy.	10
II	<b>Population Changes:</b> Fertility and its Measures (Birth rate, Fertility rate). Determinants of Fertility, Fertility in India Mortality and its Measures (Death rate, life expectancy, infant Mortality). Determinants of Mortality, Mortality in India Migration: Concept, Types of migration, causes and effects	10
III	<b>Theories of Population</b> The Demographic Transition Theory. Theories:- Malthus, Thomas, Robert. Marx.	10

**Text Books:**

1. लोकसंख्या -प्रा अहिरराव, प्रा अलीझाड आणि इतर – निराली प्रकाशन
2. लोकसंख्या भूगोल- के ए खातीब विद्या बुक्स पब्लिशर
3. लोकसंख्या भूगोल- ए बी सवदी/ पी यस कोळेकर - निराली प्रकाशन

**Reference Book:**

1. Reading List 1. Barrett H. R., 1995: Population Geography, Oliver and Boyd.
  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, Earthscan
  7. Newbold 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.
  10. Panda B P (1988): Janasankya Bhugol, M P Hindi Granth Academy, Bhopal
  11. Maurya S D (2009) Jansankya Bhugol, Sharda Putak Bhawan, Allahabad
  12. Chandna, R C (2006), Jansankhya Bhugol, Kalyani Publishers, Delhi
- Census reports and government publications
  - Relevant online and academic resources

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**DSC10 :- Demography- (practical)**

**Total Credits: 2**

**Total Contact Hours:60**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. To understand key population characteristics like age, sex, fertility, and mortality.
2. To analyze population indices such as dependency ratio and age-specific mortality.
3. To learn different methods of representing population data visually.
4. To interpret demographic trends using statistical and graphical tools.
5. To assess population distribution and its impact on society and development.

**Course Outcomes (Cos):**

After completion of the course, students will be able to-

1. Explain population characteristics and their significance in demographic studies.
2. Calculate and interpret population indices like child-woman ratio and dependency ratio.
3. Represent population data using dot maps, choropleth maps, and isopleth maps.
4. Analyze demographic trends through graphical methods.
5. Apply population data analysis for planning and policy-making.

Module No.	Topic	Contact Hours
I	<b>Population Characteristics</b> Age and Sex Pyramid Fertility and Mortality Rates Life Expectancy Literacy Rate	20
II	<b>Population Indices</b> Child-woman ratio Dependency ratio Age-specific mortality Age Distribution	20
III	<b>Methods Representing Population Data</b> Graphical Representation Proportional Squares Proportional Cubes Pie Charts	20

**Text Books:**

- 1) डॉ. पी.एम.नागतोडे, डॉ लांजेवार : नकाशाशास्त्र व प्रात्यक्षिक भूगोलशास्त्र, विद्या प्रकाशन नागपूर
- 2) डॉ. व्ही. जे पाटील व ए. पी. चौधरी, - प्रात्यक्षिक भूगोल प्रशांत पब्लिकेशन. जळगाव
- 3) डॉ. जयकुमार मगर व प्रा. जगताप प्रात्यक्षिक भूगोल
- 4) डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल सुमेरू पब्लिकेशन.मुंबई
- 5) डॉ. नामदेव गजरे, डॉ. सुरेश अहिरे - लोकसंख्या भूगोल, आवृत्ती-१, प्रशांत पब्लिकेशन. २०२०
- 6) डॉ. संजय भैसे, प्रा. देवेंद्र मस्की- लोकसंख्या भूगोल, आवृत्ती-१, अथर्व पब्लिकेशन. २०१४
- 7) के. ए. खतीब - लोकसंख्या भूगोल, आवृत्ती-१, विद्या बुक प्रकाशन.,२०११

**Reference Book:**

1. Reading List 1. Barrett H. R., 1995: Population Geography, Oliver and Boyd.
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, Earthscan
7. Newbold K. B., 2009: Population Geography: Tools and Issues, Rowman and Littlefield Publishers.

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**M3:- Geography of Resources (Theory)**

**Total Credits: 02**

**Total Contact Hours:30**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. To understand the definition, scope, and importance of applied climatology.
2. To analyze the impact of climate on agriculture and crop suitability.
3. To study the relationship between climate and human health, including diseases and risks.
4. To examine the role of climate in natural disasters and disaster management.
5. To explore adaptive strategies for health and disaster risk reduction.

**Course Outcomes (Cos):**

After completion of the course, students will be able to-

1. Explain the concept and significance of applied climatology.
2. Identify the effects of climate on agriculture and different agro-climatic zones.
3. Assess climate-related health issues and strategies for protection.
4. Analyze the role of climate in disasters and mitigation measures.
5. Apply knowledge of climate risk assessment and disaster preparedness.

Module No.	Topic	Contact Hours
<b>I</b>	<b>Resource Geography :</b> Meaning, Nature and Scope of Resource Geography, Importance of Resource Geography. Significance of natural resources.	10
<b>II</b>	<b>Classification and Distribution of Resources:</b> Renewable and Non-renewable Resources, Biotic resources: forest, wildlife, livestock, fisheries, agricultural crops, Abiotic-Land, Water and Minerals. Distribution and utilization of water, mineral and Energy resources.	10
<b>III</b>	<b>Conservation of major resources:</b> Soil, Water, Forest and Minerals.	10

**Reference Book:**

- 1] डॉ.विठ्ठल धारपुरे :साधन संपत्ती भूगोल
- 2] प्रा. ए.के खतीब -:साधन संपत्ती भूगोल
- 3] Jones G. and Hollier G., 1997: Resources, Society and Environmental Management, Paul Chapman, London.
- 4] Klee G., 1991: Conservation of Natural Resources, Prentice Hall, Englewood.
- 5] Mather A. S. and Chapman K., 1995: Environmental Resources, John Wiley and Sons, New York.
- 6] Mitchell B., 1997: Resource and Environmental Management, Longman Harlow, England. 7. Owen S. and Owen P. L., 1991: Environment, Resources and Conservation, Cambridge University Press, New York.
- 7] Rees J., 1990: Natural Resources: Allocation, Economics and Policy, Routledge.London.

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**M4:- Tourism Geography (Theory)**

**Total Credits: 02**

**Total Contact Hours:30**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. Define and explore the nature, scope, and significance of tourism geography, including natural and cultural perspectives.
2. Examine nature-based tourism, cultural and heritage tourism, and urban tourism dynamics.
3. Study the major tourism destinations, World Heritage Sites, and tourism infrastructure, along with the challenges and government policies.
4. Investigate the region's World Heritage Sites, natural and cultural tourism facilities, and their role in regional tourism growth.

**Course Outcomes (Cos):**

After completion of the course, students will be able to-

1. Understand the fundamental concepts, nature, and scope of tourism geography and its interdisciplinary connections.
2. Explore the diversity of tourism in India, with a focus on World Heritage sites and their significance.
3. Evaluate the infrastructure development and challenges in the Indian tourism sector.
4. Understand the significance of Geographical Indication (GI) goods in Marathwada and their impact on tourism.

Module No.	Topic	Contact Hours
<b>I</b>	<b>Definition, Nature and Scope of Tourism Geography.</b> <b>Natural and Cultural Tourism Perspectives</b> 1. Nature-based Tourism. 2. Cultural tourism and heritage. 3. Urban Tourism Dynamics.	10
<b>II</b>	<b>Tourism in India</b> 1. Exploring Tourism in India, World Heritage sites. 2. Infrastructure Development and Challenges 3. Analyzing the National Tourism policy and Its Implications	10
<b>III</b>	<b>Tourism Development in Marathwada.</b> 1. World heritage sites in Marathwada. 2. Natural/ Cultural tourism development facilities. 3. Geographical Indication goods in Marathwada.	10

**Reference Book:**

1. Alan, A. Lew, (2017): New Research Paradigms in Tourism Geography, Routledge,.
2. Dhar, P.N., (2006): International Tourism: Emerging Challenges and Future Prospects, Kanishka, New Delhi.
3. Hall, M., and Stephen, P., (2006): Geography of Tourism and Recreation – Environment, Place and Space, Routledge, London.
4. Kamra, K. K., and Chand, M., (2007): Basics of Tourism: Theory, Operation and Practise, Kanishka Publishers, Pune.
5. Milton, D., (1993): Geography of World Tourism, Prentice. Hall, New York,.
6. Nelson, V., (2017): An Introduction to the Geography of Tourism, Rowman & Littlefield,.

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**GE/OE 3:- Introduction of Indian Monsoon (Theory)**

**Total Credits: 02**  
**Total Contact Hours:30**  
**Maximum Marks: 50**

**Learning Objectives of the Course**

- i) Students will be able to define the monsoon and explain the dynamic atmospheric mechanisms that drive its formation.
- ii) Students will be able to identify and analyze the various geographical and meteorological factors that influence the onset, intensity, and duration of the monsoon.
- iii) Students will be able to distinguish between the Southwest and Northwest monsoons, outlining their characteristics and regional significance.
- iv) Students will be able to evaluate the influence of the monsoon on Indian agriculture, including crop production and irrigation.
- v) Students will be able to discuss the methods used for monsoon prediction and explore strategies for effective monsoon management.

**Course Outcomes (COs)**

1. Students will be able to define the monsoon, explain its underlying atmospheric mechanisms, and analyze the factors influencing its onset and variability.
2. Students will be able to distinguish between the Southwest and Northwest monsoons, outlining their characteristics and regional significance.
3. Students will be able to define monsoon variability, identify the factors that contribute to its fluctuations, and assess its environmental and socioeconomic impacts.
4. Students will be able to describe and analyze the unique features of the Indian monsoon, including its variability and regional impacts.
5. Students will be able to evaluate the influence of the monsoon on Indian agriculture, including crop production and irrigation systems.

Module No.	Topic	Contact Hours
I	Introduction of Monsoon: Meaning and mechanism of Monsoon. Factors affecting on the monsoon, advancing monsoon, and retreating monsoon. Monsoon Types Southwest monsoon and Northwest Monsoon. Branches of monsoon: Arabian Sea branch and Bay of Bengal branch.	10
II	Distribution of Monsoon rainfall in India: Regional and Seasonal. Monsoon Variability- Meaning and factors influencing variability of monsoon and impact of monsoon variability, effect of El Nino and La Nino on the monsoon. Features of Indian monsoon.	10
III	Monsoon impact on agriculture and economic development of India. Monsoon prediction and management.	10

**Recommended Books :**

- 1] Barry R.G. and Chorley R.J.: Atmosphere, Weather and Climate, Routledge. 1998.
- 2] Critch Field H.: General Climatology, Prentice, Hall, New York, 1975.
- 3] Lydolph, Paul, E.: The Climate of the Earth, Rowman and Allan held, Totowa N.J. 1958.

- 4] हवामान शास्त्राची मूलतत्त्वे - डॉ.पी.एम.नागतोडे
- 5] हवामानशास्त्र व सागरविज्ञान - कोलते/पुराणिक/सौ.कुबडे.
- 6] हवामानशास्त्र -डॉ. जयकुमार मगर

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**SEC2:- Instrumental Survey (Theory)**

**Total Credits: 01**  
**Total Contact Hours:30**  
**Maximum Marks: 50**

**Learning Objectives of the Course**

1. Students will be able to define surveying and explain its fundamental purpose in determining the relative positions of points on the Earth's surface.
2. Students will be able to describe and compare various surveying methods, including triangulation, leveling, and plane table surveying.
3. Students will be able to explain how surveying contributes to geographical studies, particularly in mapping, spatial analysis, and land management.
4. Students will be able to convert area measurements between various units.
5. Students will be able to evaluate the merits and demerits of prismatic compass surveying in various geographical contexts.

**Course Outcomes (COs)**

1. Students will be able to define surveying, differentiate between its various types (plane vs. geodetic), and classify surveys based on their purpose, demonstrating a foundational understanding of surveying principles.
2. Students will be able to articulate the importance of surveying in geographical analysis, including its role in mapping, spatial data collection, and land management.
3. Students will be able to set up and operate a plane table, including the use of associated instruments, to create accurate maps and plans.
4. Students will be able to perform accurate area conversions between various units
5. Students will be able to critically evaluate the merits and demerits of prismatic compass surveying, considering its suitability for various geographical contexts.

Module No.	Topic	Contact Hours
<b>I</b>	<b>Introduction to Surveying</b> 1. Meaning and Definition of Surveying 2. Types of Surveying 3. Methods of Surveying. 4. Importance of Surveying in Geography <b>Chain and Tape survey</b> 1. Introduction 2. Chain and Tape uses 3. Types of Chains and Tape	10 Hrs
<b>II</b>	<b>Plane Table Surveying:</b> 1. Introduction 2. Instruments used in Plane Table Survey 3. Methods of Plane Table Survey: Radiation, Intersection Method, Close Traverse, Open Traverse, Resection by two point and three-point problems. 4. Measurement and conversion of area in different units i. Sq. Meter to Guntha	10 Hrs

	ii. Sq. Meter to Acre iii. Acre to hectare iv. Sq. Foot to Acre v. Sq. Mile to hectare	
<b>III</b>	<b>Prismatic Compass Survey:</b> 1. Introduction. 2. Structure and functions prismatic compass with diagram 3. Methods of Prismatic Compass Survey (Open and Close Traverse) 4. Correction of bearing and closing error by Bowditch Method 5. Merits and Demerits of Prismatic	10 Hrs

### **Recommended Books:**

#### **Text Books:-**

1. Paul R. Wolf, Charles D. Ghilani, and Benjamin K. Lam "**Elementary Surveying: An Introduction to Geomatics**", 15th Edition , Pearson Publication, 2022
2. Deshpande, G.B. (1991). Surveying, Everest Publishing House, Pune
3. Kanetkar T.P. and Kulkarni S.V. (1983). Surveying and Levelling (Part I and II), Vidyarthi Gruha Prakashan, Pune.
4. Monkhouse, F.X.J. & Wilkinson, H.R. (1989). Maps & Diagrams, B.I Publications, Bombay.
5. Singh Gopal (1996). Map Work and Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi.
6. Singh, Lekhraj & Singh R. (1973). Map work and Practical, Central Book Depot. Allahabad.
7. Singh, R.C., and Dutta (1993). Elements of Practical Geography, Kalyani Publications, New Delhi.
8. Singh, R.L., and Singh, R.P.B. (1997). Elements of Practical Geography, Kalyani Publishers, New Delhi.

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**SEC2:- Instrumental Survey (Practical)**

**Total Credits: 01**  
**Total Contact Hours:60**  
**Maximum Marks: 50**

**Learning Objectives of the Course**

- i) Understand the basic principles, methods and types of surveying.
- ii) Gain knowledge of traditional and modern surveying instruments.
- iii) Understand the role of surveying in cartography, land-use planning, and environmental management.
- iv) Conduct real-world surveying projects and case studies.

**Course Outcomes (COs)**

1. Students Understanding Surveying Fundamentals.
2. Student able to Application of Surveying Methods
3. Student are Operation of Surveying Instruments
4. Student able to Data Collection and Mapping Skills
5. Practical Problem-Solving in Surveying.

Module No.	Topic	Contact Hours
<b>I</b>	<b>Introduction to Surveying: Types of survey</b> <b>Chain and Tape survey (Ground work)</b> <ol style="list-style-type: none"> <li>1. Open Traverse Method</li> <li>2. Closed Traverse Method</li> <li>3. Triangulation Method</li> <li>4. Cross-Staff Method</li> </ol>	20
<b>II</b>	<b>Plane Table Surveying: (Ground work)</b> Radiation, Intersection Method, Close Traverse, Open Traverse	20
<b>III</b>	<b>Prismatic Compass Survey: (Ground work)</b> Open and Close Traverse	20

**Recommended Books:**

1. Deshpande, G.B. (1991). Surveying, Everest Publishing House, Pune
2. Kanetkar T.P. and Kulkarni S.V. (1983). Surveying and Levelling (Part I and II), Vidyarthi Gruha Prakashan, Pune.
3. Monkhouse, F.X.J. & Wilkinson, H.R. (1989). Maps & Diagrams, B.I Publications, Bombay.
4. Singh Gopal (1996). Map Work and Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi.
5. Singh, Lekhraj & Singh R. (1973). Map work and Practical, Central Book Depot. Allahabad.
6. Singh, R.C., and Dutta (1993). Elements of Practical Geography, Kalyani Publications, New Delhi.
7. Singh, R.L., and Singh, R.P.B. (1997). Elements of Practical Geography, Kalyani Publishers, New Delhi.

**B.A.S.Y. (Semester-IV)**  
**Subject -Geography**  
**CEP-FP-1 :- Field Project/ Study Tour**

**Total Credits: 2**

**Total Contact Hours:60**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. Students will be able to accurately observe, record, and collect geographical data using appropriate field techniques and instruments.
2. Students will be able to analyze spatial patterns and relationships within the study area, using maps, graphs, and other visual representations.
3. Students will be able to apply critical thinking skills to analyze geographical problems and propose potential solutions.
4. Students will be able to interpret geographical phenomena and processes observed in the field, relating them to relevant theoretical concepts.
5. Students will be able to effectively communicate their findings through written reports, presentations, and other forms of media.

**Course Outcomes (Cos):**

After completion of the course, students will be able to-

1. Students will be able to accurately collect and record geographical data using appropriate field techniques and instruments.
2. Students will be able to analyze and interpret spatial data to identify patterns and relationships, creating maps, graphs, and other visual representations.
3. Students will be able to analyze the socioeconomic characteristics of a study area, including demographics, land use, and economic activities, and present findings in a clear and concise manner.
4. Students will be able to critically analyze geographical problems encountered in the field and propose evidence-based solutions.
5. Students will be able to apply classroom geographical theory to real world scenarios encountered while in the field.

**Field Project/ Study Tour**

- Suitable title of the project.
- Introduction
- Study Area
- Significance of the problem
- Objectives of the research
- Research methodology
- Collection of primary / secondary data
- Relevant statistical techniques
- Maps, Graphs, Diagrams & Photos, Analysis
- Interpretation and Report Writing
- Relevant statistical techniques, Maps, Graphs, Diagrams & Photos, Analysis
- Chapter Scheme
- Interpretation and Report Writing
- Viva-voce and presentation.

**Recommended Books :**

1. Basil Gomez and John Paul Jones III: "Research Methods in Geography: A Critical Introduction".
2. Nicholas Clifford, Meghan Cope, and Thomas Gillespie: "Key Methods in Geography".
3. Daniel Montello and Paul Sutton: "An Introduction to Scientific Research Methods in Geography and Environmental Studies".
4. Rob Kitchin and Nick Tate: "Conducting Research in Human Geography: Theory, Methodology and Practice".
5. डॉ. श्रीकांत कार्लेकर , डॉ. मोहन काळे : भूगोलशास्त्रातील संशोधन पद्धती .

**Dr. Babasaheb Ambedkar Marathwada University  
Chhatrapati Sambhajinagar- 431001**



**Three Years B.A./ B.Com. / B.Sc.  
Four Years B.A. /B.Com./ B.Sc. (Hons)  
And  
Four Years B.A. /B.Com./ B.Sc.  
(Hons with Research)  
Degree Programme**

## **Syllabus**

**B.A. First Year  
(Revised)  
(AS PER NEP- 2020)**

**Subject: - GEOGRAPHY**

**Effective from 2024-25**

*A. Khan  
29/3/2025.  
Dr. A-I. Khan.  
Chairman  
BOS Geography.*

**Dr. Babasaheb Ambedkar Marathwada University,  
Chhatrapati Sambhajanagar.**

**NEP 2020 Curriculum Structure and Scheme of Evaluation for  
B.A. F.Y. Geography**

SEMESTER - I <sup>st</sup>										
Sr No	Course Type	Course Code	Titles of Course	Scheme of Teaching (Periods / Week)		Total Lectures	Total Credit	Scheme of Evaluation (Marks)		
				Theory	Practical			Theory	Practical	Total Marks
1	Major (core)	GT.DSC-1	Physical Geography	2	--	30	2	30+20=50	--	50
		GP.DSC-1	Practical Geography	--	4/Batch	60	2	--	30+20=50	50
2	GE/OE (Generic/open Elective)	GT.GE/OE-1	Regional Geography of Maharashtra	2	--	30	2	30+20=50	--	50
3	SEC (Skill Enhance Course)	GT.SEC-1	SOI Topographical Survey Sheet Interpretation (Theory)	1	--	30	1	30+20=50	--	50
		GP.SEC1	SOI Topographical Survey Sheet Interpretation (Practical)	--	2/Batch	60	1	--	30+20=50	50
<b>(A) Total of Semester - I</b>				<b>05</b>	<b>06</b>	<b>210</b>	<b>8</b>	<b>150</b>	<b>100</b>	<b>250</b>

SEMESTER - II										
Sr No	Course Type	Course Code	Titles of Course	Scheme of Teaching (Periods / Week)		Total Lectures	Total Credit	Scheme of Evaluation (Marks)		
				Theory	Practical			Theory	Practical	Total Marks
1	Major (core)	GT.DSC-2	Human Geography	2	--	30	2	30+20=50	--	50
		GP.DSC-2	Practical Geography	--	4/Batch	60	2	--	30+20=50	50
2	GE/OE (Generic/open Elective)	GT.GE/OE-2	Regional Geography of India	2	--	30	2	30+20=50	--	50
3	VEC (Vocational Skill Course)	GT.VEC-1	Socio-economic Survey OR Study Tour (Theory)	1	--	30	1	30+20=50	--	50
		GP.VEC-1	Socio-economic Survey OR Study Tour (Practical)	--	2/Batch	60	1	--	30+20=50	50
<b>(B) Total of Semester - II</b>				<b>05</b>	<b>06</b>	<b>210</b>	<b>8</b>	<b>150</b>	<b>100</b>	<b>250</b>

### **General Instruction:-**

1. Teaching work load shall be One period for one Credit per week each theory paper.
2. Practical work load shall be Two period for one Credit per batch per week each practical paper.
3. Strength of students for each practical batch shall not be more than 20.
4. Students shall not be allowed for practical Examination without certified journal.
5. Total periods for each theory paper shall be 30 Hours per semester.
6. Total Periods for Practical paper shall be 60 Hours per semester.
7. There should be Continuous Internal Evaluation (CIE) for each paper e.g. Test, tutorials, Seminars and Home Assignments etc.

**Bachelor of Arts**  
**B.A. First Year Semester -I**  
**Subject: - Geography**  
**Course Code-GT-DSC-1**  
**Title of Course- Physical Geography**

**Total Credit: 02**  
**Total Contact Hours: 30 Hrs.**  
**Maximum Marks: 50**

**Course Objectives:**

1. Student will gain the knowledge of Physical Geography.
2. Student will have a general understanding about the geomorphological process and formation.
3. Student will be able to correlate the knowledge of Physical Geography with the human activities.

**Course Outcomes:**

1. Students will know the basic concept in Physical Geography.
2. Understand earth's tectonic and structural evolution.
3. Gain knowledge about earth's interior and various theories regarding earth.
4. Acquire knowledge about types of folds and faults and earthquakes, volcanoes and rocks classification.

**Course Contents:**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Introduction of Physical Geography:</b> Meaning, Nature and Scope, Element and Branches of Physical Geography	10
II	<b>Lithospheres:</b> Interior of the Earth, Wegner's Continental Drift Theory, Isostasy, and Plate Tectonic Theory.	10
III	<b>Earth Movements:</b> Vertical and Horizontal, Process of Folding causes and effect, process of Faulting, Causes and effect. Volcanoes and Earthquakes. <b>Rocks:</b> Classification of rocks on the basis of Origin. Properties of different rocks.	10

**TextBooks:**

- 1] डॉ. गजहंस डी. एस व डॉ. पाथरे यु. बी. : प्राकृतिक भूगोल, विद्या प्रकाशन, औरंगाबाद.
- 2] प्रा. दाते व सौ. दाते: प्राकृतिक भूविज्ञान, सुगावा प्रकाशन, पुणे.
- 3] प्रा. ए. बी. सवदी: प्राकृतिक भूगोल, निराली प्रकाशन.
- 4] प्रा. के. ए. खतीब : प्राकृतिक भूगोल, मेहता पब्लिशिंग हाउस, पुणे
- 5] डॉ. राजेंद्र परमार : प्राकृतिक भूगोल, हिमालय पब्लिशिंग हाउस, मुंबई.
- 6] डॉ. एस. आर. चौधरी व डॉ. मिश्रीलाल चव्हाण: प्राकृतिक भूगोल, प्रशांत पब्लिकेशन, जळगाव.
- 7] डॉ ए.आय. खान: प्राकृतिक भूगोल, विद्या प्रकाशन, औरंगाबाद.

**ReferenceBook:**

- 1] Pitty, A: Introduction to Geomorphology, Methucn, London,1974.
- 2] Small, R.J.: The Study of Landforms McGraw Hill, NewYork, 1985.
- 3] Daval P.A. Text books of geomorphology, Shukla book depot, Patna. 1996.
- 4] Singh, S.: Geomorphology, Praying Pustakalaya, Allahabad,1998.
- 5] Kale V. and Gupta, Element of Geomorphology Oxford University Press, Calcutta, 2001.

**Bachelor of Arts**  
**B.A. First Year Semester -I**  
**Subject: - Geography**  
**Course Code-GP-DSC-1**  
**Title of Course- Practical Geography**

**Total Credit: 02**  
**Total Contact Hours: 60 Hrs.**  
**Maximum Marks: 50**

**Learning Objectives of the Course:**

- 1.To understand the types of scale and the construction of liner scale.
- 2.To know about the relief features of the earth by using different methods.
- 3.To be able to represent the slopes and landforms by cross section method.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

1. Students will know the definition of Cartography and scale of maps.
2. Students Understand the methods of reliefs.
3. Comprehend the concept of relief features and representation of slopes through contour line.

**Course Contents:**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Scale:</b> Meaning, Methods of Representing Scale, Statement Scale, Numerical Scale and Representative Fraction (R.F. Scale) Linear Scale, Types of Linear Scale i] Simple Linear Scale. ii] Comparative Scale. iii] Diagonal Scale.	20
II	<b>Methods of Showing Relief:</b> Hachure's, Spot Heights, Bench Mark, Hill Shading, Layer tint, Contours & Form Lines.	20
III	Representation of Slopes by Contours Even and Uneven, Gentle and Steep, Concave and Convex & Terraced Slopes, Cross Profiles.	20

**TextBooks:**

- 1] डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल, सुमेरू पब्लिकेशन डोबिवली, मुंबई.
- 2] डॉ. पी. एम. नागतोडे : प्रात्यक्षिक भूगोल,
- 3] डॉ. व्ही. जे. पाटील व डॉ. ए. पी. चौधरी: प्रात्यक्षिक भूगोल, प्रशांत पब्लिकेशन, जळगाव.
- 4] डॉ. जयकुमार मगर व जगताप : प्रात्यक्षिक भूगोल.

**ReferenceBook:**

- 1) Robinson, A.H. et al : Elements of Cartography, John Wiley & Sons, U.A.A. 1995.
- 2) Sarkar A. : Practical Geography : A Systematic Approach, Oriental Longman, Calcutta, 1997.
- 3) Singh R.L. Elements of Practical Geography.
- 4) Md. Khan, Z.A. 1998, Text Book of Practical Geography Concept Publishing House, New Delhi.

<p><b>Bachelor of Arts</b>  <b>B.A. First Year Semester -I</b>  <b>Subject: - Geography</b>  <b>Course Code: - GT- GE/OE-1</b>  <b>Title of Course: - Regional Geography of Maharashtra</b></p> <p><b>Total Credit: 02</b>  <b>Total Contact Hours: 30 Hrs.</b>  <b>Maximum Marks: 50</b></p>		
<p><b>Learning Objectives of the Course:</b></p> <ol style="list-style-type: none"> <li>1. To know the physiography of Maharashtra.</li> <li>2. To describe the administrative division of Maharashtra.</li> <li>3. To understand the climatic condition of the state.</li> <li>4. To know about the major crops and industries.</li> </ol>		
<p><b>Course Outcomes (COs):</b></p> <p>After the completion of course, the students will have ability to:</p> <ol style="list-style-type: none"> <li>1. Acquaint students with Geography of Maharashtra.</li> <li>2. Aware of the magnitude of problems and prospects in Maharashtra.</li> <li>3. Understanding the inter-relationship between the subject and the society.</li> <li>4. Understanding the recent trends in regional studies.</li> </ol>		
<b>Course Contents:</b>		
<b>Module No.</b>	<b>Topics/actual contents of the syllabus</b>	<b>Contact Hours</b>
I	<p><b>Position and Personality:</b>  Location, Size and Shape, Relief and Physical Division of Maharashtra.</p>	10
II	<p><b>Physical Characteristics:</b>  Climate, Drainage, and Natural Vegetation of Maharashtra.</p>	10
III	<p><b>Agriculture: -</b>  Major Crops: - Jowar, Wheat, Rice, Cotton, Sugarcane, Maize &amp; Soybean- Geographical Condition, Production &amp; distribution.</p> <p><b>Industries: -</b>  Cotton and Textile Industries, Sugar Industries.</p>	10
<p><b>TextBooks:</b></p> <ol style="list-style-type: none"> <li>1) डॉ. एस. व्ही. ताठे: महाराष्ट्राचा भूगोल, चिन्मय प्रकाशन, औरंगाबाद.</li> <li>2) प्रा. ए.बी. सवदी व प्रा. पी. एस. कोळेकर : महाराष्ट्राचा भूगोल, निराली प्रकाशन, पुणे</li> <li>3) डॉ. विठ्ठल घारपुरे: महाराष्ट्राचा भूगोल, पिंपळापुरे, नागपूर</li> <li>4) महाराष्ट्र राज्य आर्थिक व सामाजिक समालोचन.</li> </ol>		
<p><b>ReferenceBook:</b></p> <ol style="list-style-type: none"> <li>1) Arunchalam A- Geography of Maharashtra.</li> <li>2) Deshpande C.D.- Geography of Maharashtra.</li> <li>3) Sarang S. – Geography of Maharashtra.</li> </ol>		

<p><b>Bachelor of Arts</b>  <b>B.A. First Year Semester -I</b>  <b>Subject: - Geography</b>  <b>Course Code: - GT.SEC-1</b>  <b>Title of Course: - SOI Toposheet Interpretation (Theory)</b>  <b>Total Credit: 01</b>  <b>Total Contact Hours: 30 Hrs.</b>  <b>Maximum Marks: 50</b></p>		
<p><b>Learning Objectives of the Course:</b></p> <ol style="list-style-type: none"> <li>1. To study the history of SIO Toposheets of India.</li> <li>2. To know the relief features depicted in Toposheets.</li> <li>3. To know the cultural features through Toposheets Interpretation.</li> </ol>		
<p><b>Course Outcomes (COs):</b></p> <p>After the completion of course, the students will have ability to:</p> <ol style="list-style-type: none"> <li>1. Achieve the knowledge of SOI Toposheets.</li> <li>2. Examine the Contour patterns used in the Toposheets.</li> <li>3. Understanding the relief features and cultural features in the Toposheets.</li> <li>4. Comprehend the correlation between physical and cultural factors.</li> </ol>		
<b>Course Contents:</b>		
<b>Module No.</b>	<b>Topics/actual contents of the syllabus</b>	<b>Contact Hours</b>
<b>I</b>	<p><b>Introduction of Toposheet: -</b>  History and basic information of SOI toposheets, Types of Toposheets, Latitude &amp; Longitude Scale, Index, Layer tints, Signs &amp; Symbols.</p>	<b>10</b>
<b>II</b>	<p><b>Interpretation of physical elements: -</b>  Relief: - Mountains, Plateau, Plain, &amp; other relief features.  Drainage: -Major river &amp; Tributaries, various drainage patterns &amp; Water bodies.  Vegetation: -Tropical, Deciduous, Monsoon forest Mountain forest, Tidal or Mangrove forest &amp; Desert forest.</p>	<b>10</b>
<b>III</b>	<p><b>Interpretation of cultural elements: -</b>  Settlement Pattern &amp; Types of settlements Transport &amp; Communication.</p>	<b>10</b>
<p><b>TextBooks:</b></p> <ol style="list-style-type: none"> <li>1] डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल, सुमेरू पब्लिकेशन डोबिवली, मुंबई.</li> <li>2] डॉ. पी. एम. नागतोडे : प्रात्यक्षिक भूगोल,</li> <li>3] डॉ. व्ही. जे. पाटील व डॉ. ए. पी. चौधरी: प्रात्यक्षिक भूगोल, प्रशांत पब्लिकेशन, जळगाव.</li> <li>4] डॉ. जयकुमार मगर व जगताप : प्रात्यक्षिक भूगोल.</li> </ol>		
<p><b>ReferenceBook:</b></p> <ol style="list-style-type: none"> <li>1) Misra, R.P. and Ramesh, A. Fundamentals of Cartography Mc Millan Co., New Delhi, 1986.</li> <li>2) Robinson, A.H. etal: Elements of Cartography, John Wilev &amp; Sons, U.A.A. 1995.</li> <li>3) Sarkar A.: Practical Geography: A Systematic Approach, Oriental Longman, Calcutta, 1997.</li> <li>4) Singh R.L. Elements of Practical Geography.</li> </ol>		

**Bachelor of Arts**  
**B.A. First Year Semester -I**  
**Subject: - Geography**  
**Course Code: - GP.SEC-1**  
**Title of Course: - SOI Toposheet Interpretation (Practical)**

**Total Credit: 01**  
**Total Contact Hours: 60 Hrs.**  
**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. To study the history of SIO Toposheets of India.
2. To know the relief features depicted in Toposheets.
3. To know the cultural features through Toposheets Interpretation.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

5. Achieve the knowledge of SOI Toposheets.
6. Examine the Contour patterns used in the Toposheets.
7. Understanding the relief features and cultural features in the Toposheets.
8. Comprehend the correlation between physical and cultural factors.

**Course Contents:**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<p><b>Introduction to SOI Toposheets and Basics of Surveying</b></p> <ol style="list-style-type: none"> <li>1. <b>Introduction to Topographic Maps:</b> <ul style="list-style-type: none"> <li>○ Definition and purpose of toposheets.</li> <li>○ History of Survey of India and its role in mapping.</li> <li>○ Scale, symbols, and legends in toposheets.</li> </ul> </li> <li>2. <b>Understanding SOI Toposheets:</b> <ul style="list-style-type: none"> <li>○ Explanation of the grid system (Latitude and Longitude).</li> <li>○ Use of Index and Quarter sheets.</li> <li>○ Features represented on a toposheet: contours, roads, rivers, settlements, and landmarks.</li> </ul> </li> <li>3. <b>Map Projections:</b> <ul style="list-style-type: none"> <li>○ Types of projections used in SOI maps.</li> <li>○ Understanding the concept of datum and its importance in mapping.</li> </ul> </li> </ol>	20
II	<p><b>Reading and Interpretation of Symbols:</b></p> <ul style="list-style-type: none"> <li>○ Interpretation of conventional symbols (roads, rivers, forests, etc.).</li> <li>○ Topographic lines: contour lines, index lines, and intermediate lines.</li> </ul>	20
III	<p><b>Detailed Analysis and Interpretation of Physical Features</b></p> <ol style="list-style-type: none"> <li>1. <b>Landforms and Topography:</b> <ul style="list-style-type: none"> <li>○ Understanding relief features (mountains, plateaus, valleys, plains).</li> <li>○ Identifying types of slopes: convex, concave, uniform.</li> <li>○ Determining landform characteristics from contour patterns.</li> </ul> </li> <li>2. <b>Water Bodies and Drainage Patterns:</b></li> </ol>	20

	<ul style="list-style-type: none"> <li>○ Identifying rivers, lakes, and other water bodies.</li> <li>○ Types of drainage patterns: dendritic, radial, trellis, rectangular.</li> <li>○ Interpreting drainage and its significance in landscape and hydrology.</li> </ul> <p>3. <b>Human-made Features:</b></p> <ul style="list-style-type: none"> <li>○ Identifying settlements, roads, railways, and administrative boundaries.</li> <li>○ Interpretation of infrastructural features and their relation to the environment.</li> </ul> <p>4. <b>Vegetation and Forests:</b></p> <ul style="list-style-type: none"> <li>○ Identifying forest cover, cultivation, and land use.</li> <li>○ Interpretation of symbols for different types of vegetation.</li> </ul>	
<p><b>TextBooks:</b></p> <ol style="list-style-type: none"> <li>1. डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल, सुमेरू पब्लिकेशन डोबिवली, मुंबई.</li> <li>2. डॉ. पी. एम. नागतोडे : प्रात्यक्षिक भूगोल,</li> <li>3. डॉ. व्ही. जे. पाटील व डॉ. ए. पी. चौधरी: प्रात्यक्षिक भूगोल, प्रशांत पब्लिकेशन, जळगाव.</li> <li>4. डॉ. जयकुमार मगर व जगताप : प्रात्यक्षिक भूगोल.</li> </ol>		
<p><b>ReferenceBook:</b></p> <ol style="list-style-type: none"> <li>1. Misra, R.P. and Ramesh, A. Fundamentals of Cartography Mc Millan Co., New Delhi, 1986.</li> <li>2. Robinson, A.H. etal : Elements of Cartography, John Wiley &amp; Sons, U.A.A. 1995.</li> <li>3. Sarkar A.: Practical Geography: A Systematic Approach, Oriental Longman, Calcutta, 1997.</li> <li>4. Singh R.L. Elements of Practical Geography.</li> <li>5. Md. Khan, Z.A. 1998, Text Book of Practical Geography Concept Publishing House, New Delhi.</li> </ol>		

**Bachelor of Arts**  
**B.A. First Year Semester -II**  
**Subject: - Geography**  
**Course Code: - GT-DSC-2**  
**Title of Course: Human Geography**

**Total Credit: 02**  
**Total Contact Hours: 30 Hrs.**  
**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. To know the development of Human Geography.
2. To understand the man environment relationship.
3. To know special and racial profile of Human being.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

1. Gain knowledge about major themes of human Geography.
2. Acquire knowledge about the history and evolution of human being.
3. Learn about the various races and racial groups and settlement pattern.

**Course Contents:**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Introduction: -</b> Definition, Nature and Scope of Human Geography, Branches of Human Geography.	10
II	<b>Man, and Environment Relationship: -</b> Types of Environment, Concept of Determinism and Possibilism, Stop and Go determinism.	10
III	<b>Physical and Social Profile of Racial groups,</b> Ethnic groups, Tribal groups: - Eskimos, Bushmen, Masai, Gonds, Gujars, Bhill. <b>Human Settlement: -</b> Types, Forms, Patterns and Functional classification	10

**TextBooks:**

- 1] डॉ. गजहंस डी. एस व डॉ. पाथरे यु. बी. : मानवी भूगोल, विद्या प्रकाशन, औरंगाबाद.
- 2] डॉ. माजिद हुसैन: मानवी भूगोल, किताब महाल प्रकाशन, दिल्ली.
- 3] डॉ. राजेंद्र परमार : मानवी भूगोल, हिमालय पब्लिशिंग हाउस, मुंबई.

**ReferenceBook:**

- 1] Bergman, Edward E: Human Geography, Culture, Connection and landscape, Prentice Hall, New Jersey, 1995.
- 2] Carr, M: Patterns, Process and change in Human Geography Macmillan Education, London 1987.
- 3] Singh K.N.: People of India and Introduction, Seagulla Book 1992.
- 4] Joston, R.J.(Editor) : Dictionary of Human Geography Black well Oxford, 1992.
- 5] Deblji H.J.: Human Geography, Culture, Society and Space John Wiley, New York, 1996.

**Bachelor of Arts**  
**B.A. First Year Semester -II**  
**Subject: - Geography**  
**Course Code: - GP-DSC-2**  
**Title of Course: Practical Geography**

**Total Credit: 02**  
**Total Contact Hours: 60 Hrs.**  
**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. To understand the Cartography
2. To understand the procedure of making graph.
3. To know the techniques of Diagrams.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

1. Distinguish between various types of cartographic techniques.
2. Develop an idea about different types of Graphs.
3. Acquire knowledge to prepare Diagrams from statistical data and also the ability to

**Course Contents:**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Cartography -</b> Definition, Nature and Scope of Cartography. Importance of Cartography.	20
II	<b>Graphs: -</b> 1.Line graphs 2. Bar graphs 3. Line & Bar graphs 4. Multiple Line graphs. 5. Compound Bar graphs. 6.Band graphs.	20
III	<b>Diagrams: -</b> 1.Dot Methods 2. Divided Circle 3. Divided Rectangle 4. Proportional Circle. 5. Proportional Square 6. Proportional Sphere.	20

**TextBooks:**

1. डॉ. अर्जुन कुंभार: प्रात्यक्षिक भूगोल, सुमेरू पब्लिकेशन डोबिवली, मुंबई.
2. डॉ. पी. एम. नागतोडे : प्रात्यक्षिक भूगोल,
3. डॉ. व्ही. जे. पाटील व डॉ. ए. पी. चौधरी: प्रात्यक्षिक भूगोल, प्रशांत पब्लिकेशन, जळगाव.
4. डॉ. जयकुमार मगर व जगताप : प्रात्यक्षिक भूगोल.

**ReferenceBook:**

- 1] Pal S.K. : Statistics for Geosciences, Techniques and Application, Concept, New Delhi, 1998.
- 2] Misra R.P. and Ramesh: A Fundamentals of Cartography, McMillen Co. New Delhi, 1986.
- 3] Monkhouse F.J.: Maps and Diagrams.
- 4] Robinson A.H.: elements of cartography, John Waley and Sons, USA, 1995.
- 5] Singh and Kanoujia: Map Work and Practical Geography.

**Bachelor of Arts**  
**B.A. First Year Semester -II**  
**Subject: - Geography**  
**Course Code: - GT-GE/OE-2**  
**Title of Course: Regional Geography of India**

**Total Credit: 02**

**Total Contact Hours: 30 Hrs.**

**Maximum Marks: 50**

**Learning Objectives of the Course:**

1. To understand of the location and boundaries of India.
2. To know the physiography and administrative setup of India.
3. To know the climatic condition and natural vegetation.

**Course Outcomes (COs):**

After the completion of course, the students will have ability to:

1. Understanding the physical divisions and climatic characteristics of India.
2. Acquaint with the soil and natural vegetation type and characteristics of India.

**Course Contents:**

Module No.	Topics/actual contents of the syllabus	Contact Hours
I	<b>Introduction:</b> Location and Extent, International boundaries, States and Union territories.	10
II	<b>Physiographic Divisions and Drainage system: - ,</b> The Northern mountains, The northern Indian Plains, The Peninsular plateau, The costal lowlands and Island. Himalayan River system, Peninsular River system.	10
III	<b>Climate:</b> characteristics and classification; Indian Monsoon, Rainfall Distribution <b>Soil and Natural vegetation</b> Types of Soil and its distribution, Types of Natural Vegetation and its distribution	10

**TextBooks:**

- 1) डॉ.विकास देशमुख, डॉ. एस.व्ही. ताठे, डॉ.एस. बी. जाधव:- भारताचा भूगोल
- 2) डॉ.ए. बी.सवदी:- भारताचा भूगोल
- 3) डॉ. परमार राजेंद्र :- भारताचा भूगोल , हिमालया पब्लिशिंग हाउस मुंबई २०२२

**ReferenceBook:**

- 1) C.D. Deshpande- India A Regional Interpretation, Northern Book center New Delhi.
- 2) Govt of India : -Reference Annual 2001
- 3) Mohammad Shafi :-Geography of south Asia Mac Millan and co. Calcutta
- 4) Singh R.L.: -India a Regional Geography, National Geographical society India.
- 5) Wadia D.N: -Geology of India Mcmillan and co. London 1967.

<p align="center"><b>Bachelor of Arts</b>  <b>B.A. First Year Semester -II</b>  <b>Subject: - Geography</b>  <b>Course Code: - GP-VSC-1</b>  <b>Title of Course: Socio-Economic Survey (Theory)</b></p> <p><b>Total Credit: 02</b>  <b>Total Contact Hours: 30 Hrs.</b>  <b>Maximum Marks: 50</b></p>		
<p><b>Learning Objectives of the Course:</b></p> <ol style="list-style-type: none"> <li>1 To know the methods of Socio-Economic Survey.</li> <li>2 To understand the type of statistical data.</li> <li>3 To make enable for report writing.</li> </ol>		
<p><b>Course Outcomes (COs):</b>            After the completion of course, the students will have ability to:</p> <ol style="list-style-type: none"> <li>1. Understanding of Socio-Economic condition.</li> <li>2. Recognize the social &amp; economic situation of the village.</li> <li>3. Enhance the ability of collecting data.</li> <li>4. Acquire the skill of making questionnaire &amp; report writing.</li> </ol>		
<p align="center"><b>Course Contents:</b></p>		
<p align="center"><b>Module No.</b></p>	<p align="center"><b>Topics/actual contents of the syllabus</b></p>	<p align="center"><b>Contact Hours</b></p>
<p><b>I</b></p>	<p><b>Survey Guidelines:</b> - Social, Economic, Demographical, Occupational, Cultural, Historical study of the selected area. Agriculture- land use pattern, cropping pattern, any other issues related with agriculture. Transportation network and connectivity availability of transportation, Number of various vehicles.</p>	<p><b>15</b></p>
<p><b>II</b></p>	<p><b>Report writing Instruction: -</b></p> <ul style="list-style-type: none"> <li>• Suitable title of the survey.</li> <li>• Introduction</li> <li>• Study area – village</li> <li>• Objective of the survey</li> <li>• Survey methodology (Collection of primary/secondary data, preparation of questionnaire, schedule maps, graphs, diagram and photos)</li> <li>• Interpretation of report writing</li> <li>• Chapter Scheme (minimum 5 chapters)</li> </ul>	<p><b>15</b></p>

Notes: - 10 Students prepare the survey report.  
 A group of 10 students may work on same topic under the guidance of teacher.

<p align="center"><b>Bachelor of Arts</b>  <b>B.A. First Year Semester -II</b>  <b>Subject: - Geography</b>  <b>Course Code: - GP-VSC-1</b>  <b>Title of Course: Socio-Economic Survey (Practical)</b></p> <p><b>Total Credit: 02</b>  <b>Total Contact Hours: 60 Hrs.</b>  <b>Maximum Marks: 50</b></p>		
<p><b>Learning Objectives of the Course:</b></p> <ol style="list-style-type: none"> <li>1. To know the methods of Socio-Economic Survey.</li> <li>2. To understand the type of statistical data.</li> <li>3. To make enable for report writing.</li> </ol>		
<p><b>Course Outcomes (COs):</b>            After the completion of course, the students will have ability to:</p> <ol style="list-style-type: none"> <li>1. Understanding of Socio-Economic condition.</li> <li>2. Recognize the social &amp; economic situation of the village.</li> <li>3. Enhance the ability of collecting data.</li> <li>4. Acquire the skill of making questionnaire &amp; report writing.</li> </ol>		
<p align="center"><b>Course Contents:</b></p>		
<p align="center"><b>Module No.</b></p>	<p align="center"><b>Topics/actual contents of the syllabus</b></p>	<p align="center"><b>Contact Hours</b></p>
<p><b>I</b></p>	<p><b>Survey Guidelines:</b> - Social, Economic, Demographical, Occupational, Cultural, Historical study of the selected area. Agriculture- land use pattern, cropping pattern, any other issues related with agriculture. Transportation network and connectivity availability of transportation, Number of various vehicles.</p>	<p><b>25</b></p>
<p><b>II</b></p>	<p><b>Report writing Instruction: -</b></p> <ul style="list-style-type: none"> <li>• Suitable title of the survey.</li> <li>• Introduction</li> <li>• Study area - village</li> <li>• Objective of the survey</li> <li>• Survey methodology (Collection of primary/secondary data, preparation of questionnaire, schedule maps, graphs, diagram and photos)</li> <li>• Interpretation of report writing</li> <li>• Chapter Scheme (minimum 5 chapters)</li> </ul>	<p><b>25</b></p>
<p><b>III</b></p>	<p><b>Survey Presentation Viva</b></p>	<p><b>10</b></p>