



Karmaveer Bhaurao Patil University, Satara
(A State Public University)

Rayat Shikshan Sanstha's
CHHATRAPATI SHIVAJI COLLEGE, SATARA
(A Constituent College)

Faculty of Science and Technology

Syllabus for

B. A. Degree Programme in Geography (Regular 2024 Pattern-2.0)

UNDER

B.A. Part-III

Structure And Syllabus in Accordance With

National Education Policy (NEP) 2020

Choice Based Credit System (CBCS)

With Multiple Entry & Multiple Exit Options

To be implemented from June-2026 Onwards

NAME OF THE PROGRAMME: B.A. GEOGRAPHY

PREAMBLE:

Geography is a dynamic and interdisciplinary discipline that bridges the natural and social sciences. It studies the Earth's physical features, human activities, environmental processes, and the interactions between people and their surroundings. The subject develops an understanding of spatial patterns, regional diversity, resource management, environmental sustainability, and contemporary global issues.

The Bachelor of Arts (B.A.) in Geography is designed to provide students with a strong foundation in both physical and human geography while emphasizing practical skills such as map reading, field surveys, data collection, cartography, Geographic Information Systems (GIS), and Remote Sensing (RS). The programme encourages critical thinking, analytical ability, and research skills to understand and solve geographical and environmental problems at local, regional, national, and global levels.

Aligned with the principles of the National Education Policy (NEP) 2020, the curriculum promotes multidisciplinary learning, experiential education, field-based research, digital literacy, and sustainable development. It prepares students for higher education, research, public administration, environmental management, urban and rural planning, disaster management, tourism, geospatial technologies, and other geography-related careers while fostering responsible citizenship and lifelong learning.

PROGRAMME OBJECTIVES:

The **Bachelor of Arts (B.A.) in Geography** aims to provide students with a comprehensive understanding of physical and human environments while developing analytical and practical skills. The programme objectives are:

1. **To provide fundamental knowledge** of physical geography, human geography, environmental geography, and regional geography.
2. **To develop an understanding** of the interaction between human society and the natural environment.
3. **To enhance geographical skills** in map reading, map interpretation, surveying, fieldwork, and spatial analysis.
4. **To introduce modern geographical techniques** such as Geographic Information System (GIS), Remote Sensing (RS), and Global Positioning System (GPS).

5. **To promote awareness** of environmental conservation, sustainable development, disaster management, and climate change.
6. **To develop research aptitude** through field surveys, data collection, data analysis, report writing, and project work.
7. **To cultivate critical thinking and problem-solving abilities** for addressing geographical and environmental issues.
8. **To provide knowledge of regional and global geographical patterns**, including population, agriculture, industries, urbanization, and resource management.
9. **To encourage the application of geographical knowledge** in planning, resource management, and rural and urban development.
10. **To prepare students for higher education, competitive examinations, teaching, research, and careers** in geography, environmental management, GIS, remote sensing, planning, tourism, and related fields.

This programme objectives are suitable for a **B. A. Geography Degree Programme** and align with the objectives commonly followed under the **National Education Policy (NEP), 2020** and Indian university outcome-based education frameworks.

PROGRAMME OUTCOMES:

After successful completion of the **Bachelor of Arts (B.A.) Degree Programme in Geography**, students will be able to:

1. **Develop Geographical Knowledge:** Acquire comprehensive knowledge of physical, human, regional, and environmental geography and understand the spatial organization of natural and human phenomena.
2. **Understand Human–Environment Relationships:** Analyze the interaction between humans and the environment and evaluate issues related to environmental conservation and sustainable development.
3. **Apply Geographical Skills:** Demonstrate skills in map reading, cartography, field surveying, spatial data interpretation, and the use of geographical tools such as GIS and Remote Sensing.
4. **Develop Analytical and Critical Thinking:** Analyze geographical problems using scientific methods, interpret spatial patterns, and propose practical solutions to local, regional, and global issues.
5. **Conduct Field-Based Research:** Plan and execute fieldwork, collect and analyze primary and secondary data, prepare field reports, and communicate research findings effectively.

6. **Promote Sustainable Resource Management:** Evaluate the utilization, conservation, and management of natural resources for sustainable development and environmental protection.
7. **Enhance Communication and Teamwork:** Develop effective communication, report writing, presentation, leadership, and collaborative skills through fieldwork and project-based learning.
8. **Develop Ethical and Social Responsibility:** Demonstrate environmental ethics, social responsibility, and awareness of contemporary issues such as climate change, disaster management, urbanization, and rural development.
9. **Prepare for Higher Education and Employment:** Acquire the knowledge and practical competencies required for higher studies, research, teaching, civil services, urban and regional planning, GIS, environmental consultancy, disaster management, tourism, and related professions.
10. **Promote Lifelong Learning:** Develop independent learning abilities, adaptability, and professional competence to meet the evolving needs of society and the discipline of Geography.

PRACTICAL BATCH

20 Student are considered for each batch

KARMAVEER BHAURAO PATIL UNIVERSITY, SATARA
Chhatrapati Shivaji College, Satara
(A Constituent College)
B.A. Part-III Geography
COURSE STRUCTURE
(w.e.f. June, 2026 onwards)

Year	Level	Semester	Course Type	Course No. & Course Title	Credit
III	5	V	Major Mandatory (MM)	MM-IX Practical Paper-I Fundamentals of Map Making & Map Interpretation-I	4
			Major Mandatory (MM)	MM –X Practical Paper-II Advance Tools, Techniques and Field work in Geography-I	4
			Major Mandatory (MM)	MM-XI Geography of India	2
			Open Elective Course (OE)	Geography Paper XII (A) Population Geography Or Paper XII- (B) Evolution of Geographical Thought	4
			Minor (MN)	Human Geography-I	4
			VSC	Agro-Tourism	2
			SEC	Land Surveying & Land Record	2
Cumulative Credits for Semester-III					22
III	5	VI	Major Mandatory (MM)	MM-XII Practical Paper-III Fundamentals of Map Making & Map Interpretation-II	4
			Major Mandatory (MM)	MM –XIII Practical Paper-IV Advance Tools, Techniques and Field work in Geography-II	4
			Major Mandatory (MM)	MM-XIV Economic Geography	2
			Major Electives (ME)	Paper XVI (A) Political Geography Or Paper XVI (B) Urban Geography	4
			Minor (MN)	Human Geography-II	4
			SEC	Paper-III Advance Surveying and Mapping	2
			OJT	On Job Training	2
Cumulative Credits for Semester -IV					22
Cumulative Credits for Semester-III& IV					44

B.A. III Geography Semester V & VI 2026-27

Sr. No	Semester	Course Type	Course No. & Course Title	Course Code	Credit	Work load per Week	ESE	CCE	Total Marks
1	V	Major Mandatory	MM-IX Practical Paper-I Fundamentals of Map Making & Map Interpretation-I	MMGEOP01507	4	8	60	40	100
2		Major Mandatory	MM –X Practical Paper-II Advance Tools, Techniques and Field work in Geography-I	MMGEOP01508	4	8	60	40	100
3		Major Mandatory	MM-XI Geography of India	MMGEO01509	2	2	30	20	50
4		Major Elective	Geography Paper XII (A) Population Geography Or Paper XII- (B) Evolution of Geographical Thought	MEGEO01501	4	4	60	40	100
5		Minor	Human Geography-I	MNGEO01505	4	4	60	40	100
6		VSC	Agro-Tourism	VSCGEO01503	2	2	30	20	50
7		SEC	Land Surveying & Land Record	SECGEO01502	2	2	30	20	50
1	VI	Major Mandatory	MM-XII Practical Paper-III Fundamentals of Map Making & Map Interpretation-II	MMGEOP01610	4	8	60	40	100
2		Major Mandatory	MM –XIII Practical Paper-IV Advance Tools, Techniques and Field work in Geography-II	MMGEOP01611	4	8	60	40	100

3		Major Mandatory	MM-XIV Economic Geography	MMGEO01612	2	2	30	20	50
4		Major Elective	Paper XVI (A) Political Geography Or Paper XVI (B) Urban Geography	MEGEO01602	4	4	60	40	100
5		Minor	Human Geography-II	MNGEO01606	4	4	60	40	100
6		SEC	Paper-III Advance Surveying and Mapping	SECGEO1603	2	4	30	20	50
7		OJT	On Job Training	OJTGEO01601	2	4	30	20	50

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016) Faculty of Science and Technology		
	Chhatrapati Shivaji College, Satara		
	Board of Studies in Geography		
	Programme: B.A. III		Semester- V
	Type: Major Mandatory (MM)		Marks: 100
	Credits: 4		From: June 2026
	Course Code: MM- MMGEO01507 Name of the Course: Title of the Paper-Fundamentals of Map Making and Map Interpretation - I		
Course Objectives: Students should be able to..... 1. To understand the concept of scale and methods of representation of scale 2. To able to construct different types scale. 3. To understand the concept of map and its elements. 4. To know the different types of relief features.			
Course Outcome: Students will be able to..... 1. Explain the basic concepts of scale and methods of representation of scale. 2. Construct simple graphical scale, time and distance and diagonal scale. 3. Identify the different elements of map and understand types of map. 4. Identify various types of slopes and landforms. 5. Represent of Relief by Contours. 6. Prepare various types of Profiles. 7. Memorize the pervious knowledge while studying map basic. 8. Define the term projection and construction of various types of projection.			
Expected Skills Impartation 1. Map reading skills 2. Problem-solving skill 3. Numerical skills 4. Analytical ability skills 5. Graphical Skill 6. Knowledge of scale, co – ordinate system, projection and maps. 7. Thinking Skills 8. Comprehension skill			
Module	Title & Content		Hrs.
1	Introduction to Map and Scales: 1.1 Map 1.1.1 Map: Definition and Elements 1.1.2 Classification of Maps: Based on Scale and Purpose 1.2 Scale 1.2.1 Meaning and Definition, 1.2.2 Methods of Representation of scale – Verbal, Numerical and Graphical. 1.2.3 Conversion of Scale 1.2.4 Construction of Graphical Scale – i) Simple (Plane Scale) ii) Time and Distance Scale iii) Diagonal Scale		30

2	Map Projection 2.1 Definition, Classification of Projections: - Based on the methods of Construction: Perspective and Non-perspective - Based on Developable Surface used: Conical, Cylindrical, Zenithal and Conventional. - Based on Position of Tangent Surfaces: Polar, Equatorial (normal), Oblique. - Based on Position of view point or light: Gnomonic, Stereographic, Orthographic - Based on Preserved qualities: - Equal area projection (Homolographic) - Orthographic Projection - Azimuthal Projection (True bearing Projection) 2.2 Graphical Construction of the following Projections with Properties and Use: - Zenithal Polar Gnomonic Projection - Zenithal Polar Equal Area Projection - Zenithal Polar Equi-Distance Projection - Simple Conical Projection with one standard Parallel - Cylindrical Equal Area Projection - Mercator's Projection and Reference to Universal Transverse Mercator (UTM) Projection	30
3	Identification and Mapping of Slope & Relief Features 3.1 Types of Slope: Gentle, Steep, Even, Uneven, Convex, Concave, Terraced. 3.2 Expression of Slopes: a) Gradient b) Degree c) Percent d) Mills 3.3 Representation of Relief by Contours: Hill, Mountain, Ridge, Cliff, Saddle, Plateau, Knoll, Spur, Col or Pass, Volcanic Col or Crater, Gorge, 'V' Shaped Valley, Waterfall, 'U' Shaped Valley, Cirque, Hanging Valley, Ria Coast, Fiord Coast, Sea cliff.	30
4	Profiles 4.1 Superimposed Profile 4.2 Composite Profile 4.3 Projected Profile 4.4 Longitudinal Profile 4.5 Wentworth's method of slope determination.	30
	Journal and Viva-voce	

Reference Books:

- ❖ A. B. Aher, A. P. Chaudhari, and S. N. Bharambe, *Techniques of Spatial Analysis* Jalgaon: Prashant Publications, 2015.
- ❖ J. Bygott, *An Introduction to Mapwork and Practical Geography* London: University Tutorial Press, 1964.
- ❖ Md. Zulfequar Ahmad Khan, *Textbook of Practical Geography* New Delhi: Concept Publishing Company, 1998.
- ❖ Z. A. Khan, *Textbook of Practical Geography* 1998.
- ❖ D. R. Khullar, *Essentials of Practical Geography* Jalandhar: New Academic Publishing Co.

- ❖ Maurice Yeates, *An Introduction to Quantitative Analysis in Human Geography* New York: McGraw-Hill, 1974.
- ❖ R. P. Misra and A. Ramesh, *Fundamentals of Cartography* New Delhi: Concept Publishing Company, 2000.
- ❖ F. J. Monkhouse and H. R. Wilkinson, *Maps and Diagrams* London: Methuen, 1971.
- ❖ Balbir Singh Negi, *Practical Geography* Meerut: Kedar Nath Ram Nath.
- ❖ P. Saha and P. Basu, *Advanced Practical Geography* Kolkata: Books and Allied Publications, 2006.
- ❖ Erwin Raisz, *Principles of Cartography* New York: McGraw-Hill Book Co., Inc., 1962.
- ❖ A. H. Robinson et al., *Elements of Cartography*, 6th ed., 2010.
- ❖ A. H. Robinson and R. D. Sale, *Elements of Cartography* New York: John Wiley and Sons, Inc., 1969.
- ❖ Pijushkanti Saha and Partha Basu, *Advanced Practical Geography: A Laboratory Manual* Kolkata: Books and Allied (P) Ltd., 2010.
- ❖ Ashis Sarkar, *Practical Geography: A Systematic Approach* Calcutta: Orient Longman Limited, 1997.
- ❖ L. R. Singh, *Fundamentals of Practical Geography* 2011.
- ❖ Gopal Singh, *Map Work and Practical Geography* New Delhi: Vikas Publishing House Pvt. Ltd., 1996.
- ❖ R. L. Singh and L. R. S. Kanaujia, *Map Work and Practical Geography* Allahabad: Central Book Depot.
- ❖ R. L. Singh and P. B. Rana, *Elements of Practical Geography* New Delhi: Kalyani Publishers, 1998.
- ❖ अर्जुन कुंभार, *प्रात्यक्षिक भूगोल डोंबिवली पूर्व, जि. ठाणे: सुमेरू प्रकाशन, २०१४.*
- ❖ एस. बी. शिंदे, *नकाशाशास्त्र कोल्हापूर: फडके प्रकाशन, २००२.*
- ❖ दूर शिक्षण केंद्र, *नकाशाशास्त्र कोल्हापूर: शिवाजी विद्यापीठ, २००९.*
- ❖ के. ए. खतीब, *समग्र प्रात्यक्षिक भूगोल कोल्हापूर: संजोग प्रकाशन, २०१३.*
- ❖ ई. के. करंजखेले आणि डी. वाय. अहिरराव, *प्रात्यक्षिक भूगोल नाशिक: सुदर्शन प्रकाशन, २०१०.*

Evaluation Pattern:

Total Marks: 100

Internal Continuous Evaluation: Activities 40 Marks: For major paper of 4 credit 1. Class Test online/ Offline- 20 Marks 2. Subject Specific Activity- 20 Marks	<u>End Semester Examination Question Paper Pattern for 60 Marks</u> Separate Skeleton will be provide Practical examination 1 batch- 20 Students Internal examiner-02 External examiner-01
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	Chhatrapati Shivaji College, Satara		
	Board of Studies in Geography		
	Programme: B. A. III		Semester- V
	Type: Major Mandatory (MM)		Marks: 100
	Credits: 4		From: June 2026
	Course Code: MMGEO01508 Name of the Course: Advanced Tools, Techniques & Field Work in Geography -I		
Course Objectives: Students should be able to..... 1.To understand the basic concept of computer and its application 2.To learn the construction of graphs with the help of computer. 3.To know the concept of remote sensing and its application. 4.To understand the concept of aerial photographs and satellite images. 5.To know the concept of geographical information system 6.To handle the global positioning system			
Course Outcome: Students will be able to..... CO-1 Generate the maps. CO-2 Generate the graph with the help of given data by using MS Office CO-3 Learners will be select any area and collect the geographical data. CO-4 Collect the geospatial data. CO-5 Demonstrate the concept, process and application of remote sensing. CO-6 Distinguish between EMR and EMS and explain types of platforms, sensors. CO-7 Identify the elements of visual images and interpret the thematic map. CO-8 Explain the concept, process and types of aerial photographs and how to interpret these photographs. CO-9 Explain the concept and segments of GPS and how to apply this mapping instrument in geography. CO-10 Enable to use Mobile GPS for Navigation. CO-11 Explain the concept and components of GIS.			
Expected Skills Impartation 1. Map reading skills 2. Problem-solving skill 3. Numerical skills 4. Analytical ability skills 6. Graphical Skill 7. Knowledge of scale, co – ordinate system, projection and maps. 8. Thinking Skills 9. Comprehension skill			
Module	Title & Content		Hrs.
1	Introduction to Computer 1.1 Introduction to Computer 1.2 Application of Excel for Data Analysis: Average Ascending & Descending Order, Standard Deviation (Simple Data)		30

	1.3 Construction of graphs 1.3.1 Line Graphs, Bar Graphs, 1.3.2 Pie Diagram, Scatter Diagram	
2	Remote Sensing 2.1 Definition of Remote Sensing 2.2 Fundamentals of Remote Sensing: EMR, Sensors and Platforms 2.3 Application of Remote Sensing in Geography 2.4 Aerial photographs and Satellite imagery: Definition, types and difference between them 2.5 Determination of Photo Scale 2.6 Introduction of satellite image browsing sites 2.7 Elements of image interpretation 2.8 Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery	30
3	Geographical Information System (GIS) 3.1 Definition and components 3.2 GIS Data Structure: Types (spatial and non-spatial), Raster and Vector 3.3 Georeferencing, Digitization, Map Layout Preparation 3.4 Application of GIS in Geography: Land use or Land Cover, Urban Sprawl Analysis, Forests Monitoring	30
4	Global Navigation Satellite System (GNSS) 4.1 Definition and components 4.2 GNSS and its applications in Geography 4.3 Field work in GNSS: Determining latitude, longitude and altitude 4.4 Exercises with Mobile GNSS	30
	Journal and Viva-voce	

Reference Books:

- ❖ A. B. Aher, A. P. Chaudhari, and S. N. Bharambe, *Techniques of Spatial Analysis* Jalgaon: Prashant Publications, 2015.
- ❖ J. Bygott, *An Introduction to Mapwork and Practical Geography* London: University Tutorial Press, 1964.
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- ❖ D. R. Khullar, *Essentials of Practical Geography* Jalandhar: New Academic Publishing Co.
- ❖ C. P. Lo and Albert K. W. Yeung, *Concepts and Techniques of Geographic Information Systems* New Delhi: PHI Learning Private Limited, 2011.
- ❖ Maurice Yeates, *An Introduction to Quantitative Analysis in Human Geography* New York: McGraw-Hill, 1974.
- ❖ R. P. Misra and A. Ramesh, *Fundamentals of Cartography* New Delhi: Concept Publishing Company, 2000.

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- ❖ दूर शिक्षण केंद्र, *नकाशाशास्त्र कोल्हापूर*: शिवाजी विद्यापीठ, २००९.
- ❖ के. ए. खतीब, *समग्र प्रात्यक्षिक भूगोल कोल्हापूर*: संजोग प्रकाशन, २०१३.
- ❖ ई. के. करंजखेले आणि डी. वाय. अहिराव, *प्रात्यक्षिक भूगोल नाशिक*: सुदर्शन प्रकाशन, २०१०.

Evaluation Pattern:

Total Marks: 100

Internal Continuous Evaluation:	<u>End Semester Examination Question Paper Pattern for 60 Marks</u>
Activities 40 Marks: For major paper of 4 credit 1. Class Test online/ Offline- 20 Marks 2. Subject Specific Activity- 20 Marks	Separate Skeleton will be provide Practical examination 1 batch- 20 Students Internal examiner-02 External examiner-01

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016)	
	Faculty of Science and Technology	
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	Board of Studies in Geography	
	Programme: B. A. III	Semester- V
	Type: Major Mandatory (MM)	Marks: 50
	Credits: 2	From: June 2026.
Course Code: MMGEO01511 Name of the Course: Geography of India		
Course Objectives: Students should be able to..... 1) To map the physical profile of the India 2) To understand the drainage system in India. 3) To evaluate the forest resources distribution in India. 4) To know the distribution of Minerals and power resources in India.		
Course Outcome: Students will be able to..... 1 Map the physical profile of the India. 2 Understand the drainage system in India. 3 Detailing knowledge of soil distribution in India 4 Detailing knowledge of forest resources distribution in India 5 Study the distribution of Minerals and power resources in India.		
Expected Skills Impartation ➤ Comprehension skill ➤ Analytical ability skills ➤ Graphical Skill ➤ Comprehension skill		
Module	Title & Content	Hrs.
1	Physical Profile of India 1.1 Location : Absolute and Relative 1.2 Physiographic Divisions: Characteristics and Importance 1.3 Climatic conditions and Characteristics: Summer, Rainy and Winter Seasons 1.4 Major Drainage Systems: Ganga, Brahmaputra, Narmada, Krishna, Godavari (Characteristics and Importance)	15
2	Soils, Forests and Resources in India 2.1 Major soil types, characteristics and its distribution 2.2 Major forest types: characteristics and their distribution 2.3 Conventional Resources: Iron Ore and Manganese (Distribution, Production and Trade) 2.4 Non-Conventional Resources: Solar and Wind (Distribution, Production and trade)	15

Reference Books:

- ❖ C. D. Deshpande, *India: A Regional Interpretation* New Delhi: ICSSR, 1992.
- ❖ B. L. C. Johnson, ed., *Geographical Dictionary of India* New Delhi: Vision Books, 2001.
- ❖ K. A. Khatib, *Geography of India*.
- ❖ D. R. Khullar, *India: A Comprehensive Geography* New Delhi: Kalyani Publishers, 2007.
- ❖ Majid Husain, *Geography of India* New Delhi: Tata McGraw-Hill Education (India) Private Limited, 2013.
- ❖ R. B. Mandal, ed., *Patterns of Regional Geography: An International Perspective*, vol. 3, *Indian Perspective* New Delhi: Concept Publishing Company, 1990.
- ❖ C. R. Pathak, *Spatial Structure and Processes of Development in India* Kolkata: Regional Science Association, 2003.
- ❖ J. Singh, *India: A Comprehensive & Systematic Geography* Gorakhpur: Gyanodaya Prakashan, 2003.
- ❖ O. H. K. Spate and A. T. A. Learmonth, *India and Pakistan: A General and Regional Geography* London: Methuen, 1967.
- ❖ R. Tirtha, *Geography of India* Jaipur: Rawat Publications, 2002.
- ❖ R. C. Tiwari, *Geography of India* Allahabad: Prayag Pustak Bhawan, 2007.
- ❖ के. ए. खतीब, *भारताचा भूगोल* कोल्हापूर: मेहता पब्लिशिंग हाउस, २००५.

Journal:

- Deccan Geographer
- Cartography and Geographic Information Science
- Goa Geographer
- Maharashtra Bhugolshastra Sanshodhan Patrika

Additional Reading

1. Pawar C.T. & Others : Geography of India.
2. Savadi, Kolekar: Bharatacha Samarag Bhugol, Nirali Prakashan, Pune.

Total Marks: 50**Activities 20 Marks:**

Subject Specific Activity: - 20 Marks

End Semester Examination: Pattern for 30 Marks**Instruction:**

- 1) All Questions are Compulsory.
- 2) All Questions carry equal marks.
- 3) Figures to the right indicate full marks.

Day and Date:**Total Marks: 30****Time: One Hours**

- =====
- | | |
|---|----|
| Q. 1. Choose the correct alternatives from the following | 08 |
| प्रश्न १. खालीलपैकी योग्य पर्याय निवडा. | |
| Q.2. Write short notes (Two out of Three) | 10 |
| प्रश्न २. टीपा लिहा (तीन पैकी दोन) | |
| Q.3. Answer the following question in broad. (One out of Two) | 12 |
| प्रश्न ३. खालील प्रश्नाचे सविस्तर उत्तर लिहा (दोन पैकी एक) | |

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	Board of Studies in Geography		
	Programme :B.A. III		Semester- V
	Type: Open Elective (OE)		Marks: 100
	Credits: 4		From: June 2026.
	Course Code: MEGEO01501 Geography Paper XII (A) Population Geography		
Course Objectives: Students should be able to..... 1. To explain the meaning, nature, scope and significance of population geography. 2. To identify the sources of population data like primary and secondary. 3. To determine the factors affecting the distribution of population. 4. To analysis the population distribution and demographic composition. 5. To correlate the population with the resource and development. 6. To map the population data.			
Course Outcome: Students should be able to..... 1. Explain the meaning, nature, scope and significance of population geography. 2. Identify the sources of population data like primary and secondary. 3. Determine the factors affecting the distribution of population. 4. Show and analyse the population distribution pattern. 5. Explain demographic composition of population. 6. Calculate fertility, mortality with the help of data. 7. Depict population data with help of maps. 8. Understand the term migration and analyse the measures and methods of migration. 9. Examine population dynamics and characteristic.			
Expected Skills Impartation 1. Comprehension skill 2. Analytical ability skills 3. Graphical Skill 4. Comprehension skill 5. Mapping Skill			
Module	Title & Content		Hrs.
1	Introduction to Population Geography 1.1 Definition of Population Geography 1.2 Nature and Scope of Population Geography 1.3 Significance of Population Geography 1.4 Sources of Population Data		15
2	Population Growth and Distribution 2.1 World Population Growth 2.2 Factors Affecting on the Population Distribution 2.3 Population Distribution of the World 2.4 Population Concepts: Under Population, Optimum Population and Over Population		15

3	Population Dynamics 3.1 Concept of Population Dynamics 3.2 Fertility: Types, Causes, Effects and Measures 3.3 Mortality: Types, Causes, Effects and Measures 3.4 Migration: Types, Causes, Effects and Measures	15
4	Population Composition 4.1 Age 4.2 Sex 4.3 Literacy 4.4 Rural and Urban Population	15

Reference Books:

- ❖ H. R. Barrett, *Population Geography* Edinburgh: Oliver and Boyd, 1995.
- ❖ A. Bhende and T. Kanitkar, *Principles of Population Studies* Mumbai: Himalaya Publishing House, 2000.
- ❖ R. C. Chandna and M. S. Sidhu, *An Introduction to Population Geography* New Delhi: Kalyani Publishers, 1980.
- ❖ R. C. Chandna, *Jansankhya Bhugol* Delhi: Kalyani Publishers, 2006.
- ❖ National Digital Library of India, <https://ndl.iitkgp.ac.in/>.
- ❖ K. B. Newbold, *Population Geography: Tools and Issues* Lanham: Rowman and Littlefield Publishers, 2009.
- ❖ M. Pacione, *Population Geography: Progress and Prospect* London: Taylor and Francis, 1986.
- ❖ B. P. Panda, *Janasankhya Bhugol* Bhopal: M. P. Hindi Granth Academy, 1988.
- ❖ G. T. Trewartha, *A Geography of Population: World Patterns* New York: John Wiley, 1969.
- ❖ M. G. A. Wilson, *Population Geography* London: Nelson, 1968.
- ❖ विठ्ठल घाटपुरे, *लोकसंख्या भूगोल* नागपूर: पिंपळापुरे अँड कंपनी, १९९९.
- ❖ के. ए. खतीब, *लोकसंख्या भूगोल* कोल्हापूर: संजोग प्रकाशन, २०११.
- ❖ के. एम. भोसले आणि के. बी. काटे, *लोकसंख्याशास्त्र* कोल्हापूर: फडके प्रकाशन, २००६.
- ❖ ए. बी. सवदी आणि पी. एस. कोळेकर, *मानवी व लोकसंख्या भूगोल* पुणे: निराली प्रकाशन, २००३.

Journal:

- Deccan Geographer
- Cartography and Geographic Information Science
- Goa Geographer
- Maharashtra Bhugolshastra Sanshodhan Patrika

Additional Reading

1. Clarke J. I., 1965: *Population Geography*, Pergamon Press, Oxford.
2. e-PG Pathshala: <https://epgp.inflibnet.ac.in/>
3. Jones, H. R., 2000: *Population Geography*, 3rd ed. Paul Chapman, London.
4. Lutz W., Warren C. S. and Scherbov S., 2004: *The End of the World Population Growth in the 21st Century*, Earthscan
5. Maurya S D (2009) *Jansankhya Bhugol*, Sharda Pustak Bhawan, Allahabad
6. MOOCS - SWAYAM: <https://swayam.gov.in>

Evaluation Pattern:	
Total Marks: 100	
Internal Continuous Evaluation:	<u>End Semester Examination Question Paper Pattern for 60 Marks</u>
Activities 40 Marks: For major paper of 4 credit	Instruction: 1) All Questions are Compulsory. 2) All Questions carry equal marks. 3) Figures to the right indicate full marks.
1. Project/ Seminar - 20 Marks 2. Online/ offline class test- 20 Marks	Day and Date: Total Marks: 60 Time: Two Hours ===== Q. 1. Choose the correct alternatives from the following 15 प्रश्न १. खालीलपैकी योग्य पर्याय निवडा . Q.2. Write short notes (Three out of Four) 15 प्रश्न २. टीपा लिहा (चार पैकी तीन) Q.3. Write short answer (Three out of Four) 15 प्रश्न ३. थोडक्यात उत्तरे लिहा (चार पैकी तीन) Q.4. Answer the following question in broad. (One out of Two) 15 प्रश्न ४. खालील प्रश्नाचे सविस्तर उत्तर लिहा. (दोन पैकी एक)

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016) Faculty of Science and Technology		
	Chhatrapati Shivaji College, Satara		
	Board of Studies in Geography		
	Programme: B.A. III		Semester- V
	Type: Open Elective (OE)		Marks: 100
	Credits: 4		From: June 2026.
	Course Code: - MEGEO01501 Name of the Course: Geography Paper XII (B) Evolution of Geographical Thought		
Course Objectives: Students should be able to..... 1. To study the early development of geography by Greek scholars. 2. To explore ancient Indian ideas on geography and cosmology 3. To learn about Arab advancements in navigation and map-making. 4. Emphasized field observation, physical geography, and interconnections in nature. 5. To understand human-environment relationships through possibilism. 6. To examine new directions like GIS, remote sensing, and climate studies.			
Course Outcome: Students will be able to..... CO-1 Students should be able to understand in-depth about the Evolution and Development of Geographical Thought. CO-2 Students able to understand contribution of ancient scholars in geographical literature. CO-3 Understand the geographical thinking and disciplinary trends of German, French, British and American scholars. CO-4 Build an idea about dualisms and debates in the geographical studies. CO-5 Distinguish the paradigms in geographical development. CO-6 The knowledge about how geographers at different time scales have understood the relation between geographical thought and practice. CO- 7 Students should know about the recent trends in geography. CO-8 Students get acquainted with the paradigms and its importance in the geography discipline. CO-9 Students acquired knowledge about importance of quantitative revolution in geography. CO-10 After the end of semester, students will be able to visualize the basic concept, ideas, dualisms and thinking of geographic knowledge with time scale. CO-11 This course able to inculcate interest of geographical studies among students.			
Module	Title & Content		Hrs.
1	Development of Geography in Ancient and Medieval Period 1.1 Contribution of Greeks 1.2 Contribution of Romans 1.3 Indian Geographical Thoughts 1.4 Arab Geographical Thoughts		15

2	Contribution of Modern Geographers 2.1 German School of Geography – Alexander von Humboldt 2.2 French School of Geography – Vidal-de-la-Blasche 2.3 American School of Geography – William Morris Davis 2.4 British School of Geography – Halford J. Mackinder	15
3	Dualisms in Geography 3.1 Determinism Vs Possibilism 3.2 Systematic Vs Regional geography 3.3 Physical Vs Human geography 3.4 Qualitative Vs Quantitative geography	15
4	Trends in Geography 4.1 Quantitative Revolution 4.2 Paradigm in Geography 4.3 Approaches: Radicalism, Behaviorism and Humanism 4.4 Recent trends in Geography	15

Reference Books:

- ❖ S. Adhikari, *Fundamentals of Geographical Thought* Allahabad: Chaitanya Publishing House, 2006.
- ❖ V. E. Bunkse, *Geography and the Art of Life* Baltimore: Johns Hopkins University Press, 2004.
- ❖ R. D. Dikshit, *Geographical Thought: A Contextual History of Ideas* Delhi, India: Prentice-Hall India, 1997.
- ❖ R. D. Dixit, *Geographical Thought: A Critical History of Ideas* New Delhi: Prentice-Hall of India, 2001.
- ❖ R. D. Dixit, *भौगोलिक चिंतन* New Delhi: Prentice-Hall of India, 2001.
- ❖ G. Gaile and C. Willmott, eds., *Geography in America at the Dawn of the 21st Century* Oxford & New York: Oxford University Press, 2003.
- ❖ David Harvey, *Explanation in Geography* London: Edward Arnold, 1969.
- ❖ P. Hubbard et al., *Thinking Geographically: Space, Theory and Contemporary Human Geography* London: Continuum, 2002.
- ❖ R. J. Johnston, *The Future of Geography* London: Methuen, 1988.
- ❖ R. J. Johnston and P. Claval, *Geography Since the Second World War: An International Survey* Sydney: Croom Helm, 1984.
- ❖ Majid Husain, *Evolution of Geographic Thought* Jaipur: Rawat Publications, 2007.
- ❖ D. Marcus, *Post-Structuralism in Geography: The Diabolical Art of Spatial Science* Edinburgh: Edinburgh University Press, 1999.
- ❖ Geoffrey J. Martin, *All Possible Worlds: A History of Geographical Ideas* Oxford: Oxford University Press, 2005.
- ❖ R. B. Singh, *Progress in Indian Geography* New Delhi, India: Indian National Science Academy, 2016.
- ❖ Sudeepta Adhikari, *Fundamentals of Geographical Thought* Delhi, India: Orient Blackswan Private Limited, 2015.
- ❖ e-PG Pathshala, <https://epgp.inflibnet.ac.in/>.
- ❖ NPTEL, <https://nptel.ac.in/>.

❖ SWAYAM, https://swayam.gov.in/ . ❖ National Digital Library of India, https://ndl.iitkgp.ac.in/ . ❖ Shivaji University Library E-Resources, http://www.unishivaji.ac.in/library/E-Resources . ❖ के. ए. खतीब, भूगोल: विचार आणि संकल्पना कोल्हापूर: संजोग प्रकाशन, १९९९. ❖ के. ए. खतीब, भूगोल विकास कोल्हापूर: संजोग प्रकाशन, २०१२. ❖ सुभाषचंद्र सारंग, भूगोलशास्त्रातील विचार व संकल्पना नागपूर: विद्या प्रकाशन, १९९९. ❖ ए. बी. सवदी, भूविज्ञान विकास पुणे: निराली प्रकाशन, १९९९.	
Evaluation Pattern:	
Total Marks: 100	
Internal Continuous Evaluation: Activities 40 Marks: For major paper of 4 credit 1. Project/ Seminar - 20 Marks 2. Online/ offline class test- 20 Marks	<u>End Semester Examination Question Paper Pattern for 60 Marks</u> Instruction: 1) All Questions are Compulsory. 2) All Questions carry equal marks. 3) Figures to the right indicate full marks. Day and Date: Total Marks: 60 Time: Two Hours ===== Q. 1. Choose the correct alternatives from the following 15 प्रश्न १. खालीलपैकी योग्य पर्याय निवडा . Q.2. Write short notes (Three out of Four) 15 प्रश्न २. टीपा लिहा (चार पैकी तीन) Q.3. Write short answer (Three out of Four) 15 प्रश्न ३. थोडक्यात उत्तरे लिहा (चार पैकी तीन) Q.4. Answer the following question in broad. (One out of Two) प्रश्न ४. खालील प्रश्नाचे सविस्तर उत्तर लिहा. (दोन पैकी एक) 15

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016)	
	Faculty of Science and Technology	
	Chhatrapati Shivaji College, Satara	
	Board of Studies in Geography	
	Programme: B.A., Semester: V	Semester- V
	Type : Minor (MN)	Marks: 100
	Credits : 4	From: June 2026.
Course Code: MNGEO01505		
Name of the Course: Human Geography-I		
Course Objectives: Students should be able to..... 1. To understand the definition, meaning, and Scope of Human Geography. 2. To study the branches of Human Geography. 3. To analyze the relationship between humans and the environment. 4. To understand how physical and cultural factors influence human activities. 5. To examine the types, development, and significance of agriculture in human societies. 6. To understand the origin, growth, and functions of human settlements.		
Course Outcomes: Students will be able to..... 1. Demonstrate knowledge of the concepts, nature, scope, and branches of Human Geography. 2. Analyze human-environment relationships and their impact on society. 3. Evaluate agricultural systems and their geographical significance. 4. Examine the factors influencing the origin, growth, and distribution of human settlements. 5. Assess the patterns, functions, and development of human settlements.		
Expected Skills Impartation 1. Analytical Skills 2. Spatial Thinking Skills 3. Research Skills 4. Problem-Solving Skills 5. Communication Skills 6. Critical Thinking Skills 7. Technological Skills		
Module	Title & Content	Hours
1	Introduction to Human Geography 1.1 Definition and meaning of Human Geography 1.2 Nature & Scope of Human Geography 1.3 Branches of Human Geography 1.4 Significance of Human Geography	15
2	Man & Environment 2.1 Concept of Environmentalism 2.2 Concept of Possibilism and Neo-Determinism 2.3 Man in Ecosystem 2.4 Impact of man on Environment	15
3	Agriculture 3.1 Origin and development of Agriculture 3.2 Factors affecting on Agriculture	15

	3.3 Types of Agriculture 3.4 Problems of Agriculture	
4	Settlement 4.1 Origin of settlement 4.2 Factors affecting on settlements 4.3 Types of settlements 4.4 Functions of rural settlements	15

Reference Books:

- ❖ Jasbir Singh and S. S. Dhillon, *Agricultural Geography* New Delhi: Tata McGraw-Hill, 1984.
- ❖ J. H. Johnson, *Urban Geography: An Introductory Analysis* Oxford: Pergamon Press, 1972.
- ❖ V. L. S. Prakasa Rao, *Urbanization in India* New Delhi: Concept Publishing Company, 1982.
- ❖ K. Siddhartha and S. Mukherjee, *Cities, Urbanization and Urban Systems* Delhi: Kitab Mahal, 2016.
- ❖ L. R. Singh, *Fundamentals of Human Geography* Allahabad: Sharda Pustak Bhavan, 2009.
- ❖ R. Y. Singh, *Geography of Settlements* Jaipur: Rawat Publications, 2002.
- ❖ R. Y. Singh, *Geography of Settlements* Mumbai: Rawat Publications, 2007.
- ❖ A. E. Smailes, *The Geography of Towns* London: Hutchinson University Library, 1953.
- ❖ आर. एस. आडसूळ, टी. पी. पाटील, एम. एम. फुले, एस. बी. शिंदे आणि सी. टी. पवार, *नागरी भूगोल कोल्हापूर: सप्रेम प्रकाशन, १९९८.*
- ❖ के. ए. खतीब, *कृषी भूगोल कोल्हापूर: संजोग प्रकाशन, २०११.*
- ❖ के. ए. खतीब, *नागरी भूगोल कोल्हापूर: मेहता बुकसेलर्स, २०१३.*
- ❖ के. ए. खतीब, *मानवी भूगोल कोल्हापूर: मेहता बुकसेलर्स, २०१८.*
- ❖ विठ्ठल घारपुरे, *मानवी भूगोल नागपूर: पिंपळापुरे आणि कंपनी, २०००.*
- ❖ सी. टी. पवार, आर. एस. आडसूळ, टी. पी. पाटील आणि एम. एम. फुले, *मानवी भूगोल कोल्हापूर: सप्रेम प्रकाशन, १९९७.*
- ❖ ए. बी. सवदी, *नागरी भूगोल पुणे: निराली प्रकाशन, १९९५.*
- ❖ ए. बी. सवदी आणि पी. एस. कोळेकर, *मानवी भूगोल पुणे: निराली प्रकाशन, २००९.*
- ❖ प्रकाश सावंत, *मानवी भूगोल कोल्हापूर: फडके प्रकाशन, २०१४.*

Research Journals-

1. The Journal of Agricultural Science
2. Journal of Sustainable agriculture
3. ेतकरी
4. बळीराजा मावसक

Additional Readings:

1. योजना
2. Daily news related to this paper

Medium of Instruction: Marathi / English
Special instructions, if any: Marathi
Library and laboratory equipment's:
Reference Books

Evaluation Pattern:

Total Marks: 100

Internal Continuous Evaluation: Activities 40 Marks: For major paper of 4 credit 1. Class Test online/ Offline- 20 Marks 2. Subject Specific Activity- 20 Marks	<u>End Semester Examination Question Paper Pattern for 60 Marks</u> Instruction: 1) All Questions are Compulsory. 2) All Questions carry equal marks. 3) Figures to the right indicate full marks. Day and Date: Total Marks: 60 Time: Two Hours ===== Q. 1. Choose the correct alternatives from the following 15 प्रश्न १ .खालीलपैकी योग्य पर्याय निवडा . Q.2. Write short notes (Three out of Four) 15 प्रश्न २. टीपा लिहा (चार पैकी तीन) Q.3. Write short answer (Three out of Four) 15 प्रश्न ३. थोडक्यात उत्तरे लिहा (चार पैकी तीन) Q.4. Answer the following question in broad. (One out of Two) 15 प्रश्न ४ .खालील प्रश्नाचे सविस्तर उत्तर लिहा) दोन पैकी एक
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	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016)	
	Faculty of Science and Technology	
	Chhatrapati Shivaji College, Satara	
	Board of Studies in Geography	
	Programme: B.A., Semester: V	Semester- V
	Type :Vocational Skill Course (VSC)	Marks: 50
	Credits : 2	From: June 2026
Course Code: VSCGEO01503		
Name of the Course : Agro-Tourism		
Course Objectives: Students should be able to..... 1. To provide additional income opportunities for farmers through tourism-related activities. 2. To promote rural development by creating employment and business opportunities in villages. 3. To educate visitors about agricultural practices, rural lifestyles, and farming traditions. 4. To preserve and showcase local culture, customs, food, and traditional knowledge. 5. To improve the quality of life of rural populations through tourism-generated revenue. 6. To diversify the rural economy and reduce dependence solely on agriculture.		
Course Outcomes: Students will be able to..... 1. Visitors gain practical understanding of farming practices, crops, livestock management, and rural lifestyles. 2. Agro-tourism creates direct and indirect employment opportunities for local rural communities. 3. Farmers earn supplementary income through accommodation, food services, farm activities, and sale of agricultural products. 4. Encourages farmers and rural youth to develop tourism-related enterprises and services. 5. Increased income and employment opportunities contribute to better living standards and community well-being.		
Expected Skills Impartation ➤ Understanding skill ➤ Evaluative skill ➤ Analytical skill ➤ Critical Thinking		
Module	Title & Content	Hours
1	Introduction to Agro-Tourism 1.1 Introduction and definition. 1.2 Importance of agro-tourism. 1.3 Scope of agro-tourism. 1.4 Forms of agro-tourism.	15
2	Management of Agro-tourism 2.1 Requirements for Agro-tourism- farm, forest, garden, wild life, fish tank/ponds, coastal areas, residential huts, etc. 2.2 Services and Products in Agro-tourism. 2.3 Constraints in operation, planning and management of Agro-tourism activities. 2.4 Sustainable agro-tourism and rural development policy.	15

Reference Book:-

- ❖ Prakash Talwar, *Travel and Tourism Management* New Delhi: Gyan Books Pvt. Ltd.
- ❖ S. C. Badri, *Trends in Tourism Promotion* Dehradun: International Book Distributors, 2003.
- ❖ A. K. Bhatia, *International Tourism*, 3rd ed. New Delhi: Sterling Publishers Pvt. Ltd., 2019.
- ❖ A. K. Bhatia, *Tourism Development* New Delhi: Sterling Publishers Pvt. Ltd., 2002.
- ❖ Manoj Dev, *India: A Tourist Paradise* New Delhi: Sterling Publishers Pvt. Ltd., 1985.
- ❖ Premnath Dhar, *Development of Tourism and Travel Industry India*: Kanishka Publishing House, 2009.
- ❖ V. N. Gupta, *Tourism in India* Delhi: Gyan Publishing House, 2013.
- ❖ Jagmohan Negi, *Tourism Development and Resource Conservation* New Delhi: Metropolitan Books Publication, 1990.
- ❖ Douglas Pearce, *Tourism Development*, vol. 2, 1970.
- ❖ R. Robinson, *Geography of Tourism* Boston: MacDonald and Evans, Ltd., 1976.
- ❖ Shawni Singh, *Principles of Indian Tourism*, 2011.
- ❖ S. N. Singh, *Geography of Tourism and Recreation*, 4th ed., 2014.
- ❖ Ratandeep Singh, *Tourism Today*, vols. 1–3.
- ❖ एस. बी. शिंदे, *पर्यटन भूगोल कोल्हापूर: फडके प्रकाशन*.
- ❖ व्ही. टी. घारपुरे, *पर्यटन भूगोल नागपूर: पिंपळापुरे अँड कं. पब्लिशर्स*, २००३.
- ❖ के. ए. खतीब, *भारतातील पर्यटन कोल्हापूर: संजोग प्रकाशन*, २०११.

Research Journals:

1. Agro Tourism
2. Tourism Management
3. Vidya – A Journal of Gujarat University
4. Journal of Hospitality and Tourism Management
5. International Journal of Agriculture Extension and Social Development
6. Journal of Emerging Technologies and Innovative Research (JETIR)

Additional Reading:

1. Google Search
2. Red Cross Society official website
3. United Nations official website
4. [www. tripadvisor.com](http://www.tripadvisor.com)
5. [www. expedia.com](http://www.expedia.com)
6. Daily news

Medium of Instruction: Marathi / English

Special Instructions, if any: Marathi

Library and Laboratory equipment's

Reference Books (Departmental Library)

Evaluation Pattern:	
Total Marks:50	
Internal Continuous Evaluation:20 Marks 1. Group Discussion on any topic/field visit to Land Record Department-District/Tahsil Level, Apps/websites Related to land 2. Home Assignment	<u>End Semester Examination Question Paper Pattern for 30 Marks</u> Instruction: 1) All Questions are Compulsory. 2) All Questions carry equal marks. 3) Figures to the right indicate full marks. Day and Date: Total Marks: 30 Time: One Hours ===== Q. 1. Choose the correct alternatives from the following 08 प्रश्न १ .खालीलपैकी योग्य पर्याय निवडा . Q.2. Write short notes (Two out of Three) 10 प्रश्न २ .टीपा लिहा) तीन पैकी दोन(Q.3. Answer the following question in broad. (One out of Two) 12 प्रश्न ३ .खालील प्रश्नाचे सविस्तर उत्तर लिहा) दोन पैकी एक(

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016)		
	Faculty of Science and Technology		
	Chhatrapati Shivaji College, Satara		
	Board of Studies in Geography		
	Programme: B.A., Semester: V	Semester- V	
	Type : Skill Enhancement Course	Marks: 50	
	Credits : 2	From: June 2026	
Course Code: SEC GEO01502			
Name of the Course : Land Surveying & Land Record			
Course Objectives: Students should be able to..... 1. To introduce the students a new technology of Land Surveying. 2. To categorize the surveying. 3. To offer practical training of land surveying and to the students and make them surveying experts. 4. To generate job opportunities in the corporate and government sector.			
Course Outcomes: Students will be able to..... 1. Introduce a new technology in Land Surveying and land Record. 2. Analysis the aims about database for land surveying and mapping. 3. Explain comprehensive knowledge about the surveying and map scale 4. Invent the job opportunities in the corporate and government sector.			
Expected Skills impartation 1. Land Measurement Skills 2. Map Reading and Interpretation 3. Survey Instrument Handling 4. Problem-Solving and Decision-Making Skills 5. Computer and Digital Mapping Skills 6. Communication and Teamwork Skills			
Module	Title & Content		Hours
1	Land Surveying 1.1. Introduction to Land Surveying 12. Types of Land Surveying/Measuring 1.3. Allotment of Land 1.4. Land Purches and Sale		15
2	Land Record 2.1. Introduction of Land Record Department 2.2. Record of land Right: 7/12, Uses of 7/12, Reading of 7/12, 2.3. Public Documents/ Basic Terms & Concept land Record Department 2.4 Duties of Revenue officer		15
Reference Books: ❖ Charles D. Ghilani and Paul Richard Wolf, <i>Elementary Surveying: An Introduction to Geomatics</i> Upper Saddle River: Prentice Hall, 2008.			

- ❖ T. P. Kanetkar and S. V. Kulkarni, *Surveying and Levelling* Pune: Pune Vidyarthi Griha Prakashan, 1986.
- ❖ V. Natarajan and Ron K. Adler, *Advanced Surveying* Bombay: B.I. Publications.
- ❖ A. V. Maslov, A. V. Gordeev, and Yu. G. Batrakov, *Geodetic Surveying* Moscow: Mir Publishers, 1984.
- ❖ S. C. Rangwala, *Surveying and Levelling* Anand: Charotar Publishing House Pvt. Ltd., 2011.
- ❖ R. L. Singh and L. R. Kanaujia, *Map Work and Practical Geography*.
- ❖ Satheesh Gopi, *Advanced Surveying: Total Station, GIS and Remote Sensing* New Delhi: Pearson Education India, 2007.
- ❖ Mahabhulekh, Government of Maharashtra, <https://mahabhulekh.maharashtra.gov.in>.

Research Journals-

- Bhumitarang
- Land Record

Additional readings:

- E-Pik Pahani
- Laws related to land measurement

Medium of Instruction: Marathi / English

Special instructions, if any: Marathi

Library and laboratory equipment's:

Reference Books

Evaluation Pattern:

Total Marks:50

Internal Continuous Evaluation:20 Marks

1. Group Discussion on any topic/field visit to Land Record Department-District/Tahsil Level, Apps/websites Related to land
2. Home Assignment

End Semester Examination Question Paper Pattern for 30 Marks

Instruction:

- 1) All Questions are Compulsory.
- 2) All Questions carry equal marks.
- 3) Figures to the right indicate full marks.

Day and Date:

Total Marks: 30

Time: One Hours

Q. 1. Choose the correct alternatives from the following
08

प्रश्न १. खालीलपैकी योग्य पर्याय निवडा.

Q.2. Write short notes (Two out of Three)
10

प्रश्न २. टीपा लिहा (तीन पैकी दोन)

Q.3. Answer the following question in broad. (One out of Two)
12

प्रश्न ३. खालील प्रश्नाचे सविस्तर उत्तर लिहा (दोन पैकी एक)

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016) Faculty of Science and Technology		
	Chhatrapati Shivaji College, Satara		
	Board of Studies in Geography		
	Programme: B.A. III	Semester- VI	
	Type: Major Mandatory (MM)	Marks: 100	
	Credits: 4	From: June 2026.	
	Course Code: - MMGEOP01610 Name of the Course: Fundamentals of Map Making and Map Interpretation -II		
Course Objectives: Students should be able to..... 1) To know the different weather instrument. 2) To interpret the Indian meteorological department charts 3) To understand the signs and symbols used on topographical maps 4) To interpret the topographical maps 5) To know the different cartographic techniques.			
Course Outcome: Students will be able to..... 1. Knows the utility of weather instruments. 2. Interpret IMD charts. 3. Interpretation of topographical maps. 4. Memorise the pervious knowledge while studying map basic. 5. Use of sign and symbols in the topographical maps. 6. Distinguish and relate physical features and cultural features. 7. Understand the settlement patterns and prepare a map of settlements patterns. 8. Evaluate the transport network and prepare transportation map. 9. Enable to construct various graphs and diagrams by using statistical data.			
Expected Skills impartation (Through theory and practical's) 1. Understanding skill 2. Comprehension skill 3. Analytical skill 4. Knowledge of advanced cartography. 5. Reading skills 6. Writing skill			
Module	Title & Content		Hrs.
1	Topographical Maps 1.1 Indexing of SOI Topographical Map 1.2 Signs, Symbols and Colors used in SOI Toposheet 1.3 Interpretation of SOI Topographical Maps a) Marginal Information b) Physical elements: Relief, Drainage and Vegetation		30

	c) Cultural elements: Settlements, Transportation and Communication, Irrigation, Land Use	
2	Weather Instruments Study of weather Instruments with reference to Principle, Mechanism, Function and Use 1.1 Thermograph 1.2 Barograph 1.3 Dry and Wet Bulb Thermometer 1.4 Cup Anemometer / Wind vane 1.5 Rain Gauge 1.6 Total Weather Station	30
3	Module III Isobaric Pattern & Interpretation of Indian Daily Weather Reports 3.1 Isobaric Patterns: Cyclone, Anticyclone, Col, Ridge, Secondary Depression 3.2 Signs and Symbols used in Indian Daily Weather Report 3.3 Interpretation of Indian Daily Weather Report (Summer (Pre-monsoon), Rainy (Monsoon) and Winter (Post Monsoon) Season) Marginal Information, Pressure, Winds, Clouds, Rainfall, Other Conditions, Sea Condition, Temperature departure from normal	30
4	Module IV Representation Techniques of Statistical Data 4.1 Divided Rectangle 4.2 Proportional Circle 4.3 Proportional Square 4.4 Choropleth Map 4.5 Dot Map 4.6 Isopleths 4.7 Flow line chart	30
	Journal and Viva Voce	

Reference Books:

- ❖ A. B. Aher, A. P. Chaudhari, and S. N. Bharambe, *Techniques of Spatial Analysis* Jalgaon: Prashant Publications, 2015.
- ❖ J. Bygott, *An Introduction to Mapwork and Practical Geography* London: University Tutorial Press, 1964.
- ❖ Md. Zulfequar Ahmad Khan, *Textbook of Practical Geography* New Delhi: Concept Publishing Company, 1998.
- ❖ Z. A. Khan, *Textbook of Practical Geography* 1998.
- ❖ D. R. Khullar, *Essentials of Practical Geography* Jalandhar: New Academic Publishing Co.
- ❖ Maurice Yeates, *An Introduction to Quantitative Analysis in Human Geography* New York: McGraw-Hill, 1974.
- ❖ R. P. Misra and A. Ramesh, *Fundamentals of Cartography* New Delhi: Concept Publishing Company, 2000.
- ❖ F. J. Monkhouse and H. R. Wilkinson, *Maps and Diagrams* London: Methuen, 1971.
- ❖ Balbir Singh Negi, *Practical Geography* Meerut: Kedar Nath Ram Nath.
- ❖ P. Saha and P. Basu, *Advanced Practical Geography* Kolkata: Books and Allied Publications, 2006.

❖ Erwin Raisz, <i>Principles of Cartography</i> New York: McGraw-Hill Book Co., Inc., 1962. ❖ A. H. Robinson et al., <i>Elements of Cartography</i>, 6th ed., 2010. ❖ A. H. Robinson and R. D. Sale, <i>Elements of Cartography</i> New York: John Wiley and Sons, Inc., 1969. ❖ Pijushkanti Saha and Partha Basu, <i>Advanced Practical Geography: A Laboratory Manual</i> Kolkata: Books and Allied (P) Ltd., 2010. ❖ Ashis Sarkar, <i>Practical Geography: A Systematic Approach</i> Calcutta: Orient Longman Limited, 1997. ❖ L. R. Singh, <i>Fundamentals of Practical Geography</i> 2011. ❖ Gopal Singh, <i>Map Work and Practical Geography</i> New Delhi: Vikas Publishing House Pvt. Ltd., 1996. ❖ R. L. Singh and L. R. S. Kanaujia, <i>Map Work and Practical Geography</i> Allahabad: Central Book Depot. ❖ R. L. Singh and P. B. Rana, <i>Elements of Practical Geography</i> New Delhi: Kalyani Publishers, 1998. ❖ अर्जुन कुंभार, <i>प्रात्यक्षिक भूगोल डोंबिवली पूर्व</i>, जि. ठाणे: सुमेरू प्रकाशन, २०१४. ❖ एस. बी. शिंदे, <i>नकाशाशास्त्र कोल्हापूर: फडके प्रकाशन</i>, २००२. ❖ दूर शिक्षण केंद्र, <i>नकाशाशास्त्र कोल्हापूर: शिवाजी विद्यापीठ</i>, २००९. ❖ के. ए. खतीब, <i>समग्र प्रात्यक्षिक भूगोल कोल्हापूर: संजोग प्रकाशन</i>, २०१३. ❖ ई. के. करंजखेले आणि डी. वाय. अहिरराव, <i>प्रात्यक्षिक भूगोल नाशिक: सुदर्शन प्रकाशन</i>, २०१०.	
Evaluation Pattern:	
Total Marks:100	
Internal Continuous Evaluation:	<u>End Semester Examination Question Paper Pattern for 60 Marks</u>
Activities 40 Marks: 1. Class Test online/ Offline- 20 Marks 2. Subject Specific Activity- 20 Marks	Separate Skeleton will be provide Practical examination 1 batch- 20 Students Internal examiner-02 External examiner-01

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016) Faculty of Science and Technology	
	Chhatrapati Shivaji College, Satara	
	Board of Studies in Geography	
	Programme: B.A. III	Semester- VI
	Type: Major Mandatory (MM)	Marks: 100
	Credits: 4	From: June 2026.
	Course Code: - MMGEOP01611	

Name of the Course: Advanced Tools, Techniques & Field Work in Geography – II	
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Course Objectives: Students should be able to.....

- 1) To understand the basic concept of surveying
- 2) To learn the types of data series
- 3) To know the different statistical techniques
- 4) To understand the concept of aerial photographs and satellite images.
- 5) To know the different geographical features through field visit and excursion.
- 6) To understand the methods of data collection.

Course Outcome: Students will be able to.....

- 1) Demonstrate the surveying instruments and give an idea about surveying methods.
- 2) Generate the maps.
- 3) Identify the nature data whether is individual, discrete or continuous.
- 4) Calculate the values of measures of central tendency
- 5) Explain the meaning of measures of dispersion.
- 6) Calculate the value of mean deviation and standard deviation
- 7) Calculate the correlation and justify your answer.
- 8) Learners will be select any area and collect the geographical data.
- 9) Collect the geospatial data,
- 10) Formulate the questionnaire for collection of data.
- 11) Analyse the collected data and submit the project.
- 12) Students see geographical concepts (e.g., erosion, land use, urban development) in real life.
- 13) It helps reinforce theoretical knowledge from textbooks.

Expected Skills Impartation

1. Understanding skill
2. Comprehension skill
3. Analytical skill
4. Thinking ability
5. Analyzing resources information
6. Complex Problem Solving
7. Judgment and Decision Making
8. Social Perceptiveness

9. Field work 10. Knowledge about different sectors of tourism and global tourism. 11. Skills of marketing and travel agency management. 12. Knowledge about entire tour planning and its required management		
Module	Title & Content	Hrs.
1	Statistical methods and techniques 1.1 Measures of Central Tendency: Mean, Median and Mode 1.2 Dispersion: Mean Deviation and Standard Deviation 1.3 Karl Pearson's Correlation Method 1.4 Analysis of Time Series: Semi-average Method	30
2	Surveying 2.1 Introduction to Survey: Meaning and types 2.2 Preparation of plans of the given area with the following survey method (Any one methods among them) A. Plane Table survey (Radial, Intersection, and Traverse and resection method) B. Dumpy Level survey C. Theodolite survey D. Total Station E. Abony Level Survey 2.3 Preparation of plans: Prismatic compass survey (Radical, Intersection, Traverse method) 2.3.1 Types and conversion of bearings. 2.3.2 Correction of bearing.	30
3	Project work based on field work any one of following: Resource survey, Population survey, Agricultural survey, Settlement Survey, Environmental issues, Industrial visit, Health survey, Natural Hazard or Disaster 1) Project Report must be content of following points: Introduction – Aims – Objectives - Review of the literature - Data collection – Methodology - Data Analysis – Interpretation - Findings – Suggestions – Bibliography 2) The duration of the field work should not exceed than 20 days. 3) The word count of the report should be about 8000 to 12,000 excluding figures, tables, photographs, maps, references and appendices. 4) One copy per student of the report as per research standard should be submitted at the time of examination.	30
4	Excursion Tour Visit to Geographical Places and Prepare Tour Report	30
	Journal and Viva Voce	

Reference Books:

- ❖ A. B. Aher, A. P. Chaudhari, and S. N. Bharambe, *Techniques of Spatial Analysis* Jalgaon: Prashant Publications, 2015.
- ❖ J. Bygott, *An Introduction to Mapwork and Practical Geography* London: University Tutorial Press, 1964.
- ❖ Md. Zulfequar Ahmad Khan, *Textbook of Practical Geography* New Delhi: Concept Publishing Company, 1998.
- ❖ Z. A. Khan, *Textbook of Practical Geography* 1998.
- ❖ D. R. Khullar, *Essentials of Practical Geography* Jalandhar: New Academic Publishing Co.
- ❖ Maurice Yeates, *An Introduction to Quantitative Analysis in Human Geography* New York: McGraw-Hill, 1974.
- ❖ R. P. Misra and A. Ramesh, *Fundamentals of Cartography* New Delhi: Concept Publishing Company, 2000.
- ❖ F. J. Monkhouse and H. R. Wilkinson, *Maps and Diagrams* London: Methuen, 1971.
- ❖ Balbir Singh Negi, *Practical Geography* Meerut: Kedar Nath Ram Nath.
- ❖ P. Saha and P. Basu, *Advanced Practical Geography* Kolkata: Books and Allied Publications, 2006.
- ❖ Erwin Raisz, *Principles of Cartography* New York: McGraw-Hill Book Co., Inc., 1962.
- ❖ A. H. Robinson et al., *Elements of Cartography*, 6th ed., 2010.
- ❖ A. H. Robinson and R. D. Sale, *Elements of Cartography* New York: John Wiley and Sons, Inc., 1969.
- ❖ Pijushkanti Saha and Partha Basu, *Advanced Practical Geography: A Laboratory Manual* Kolkata: Books and Allied (P) Ltd., 2010.
- ❖ Ashis Sarkar, *Practical Geography: A Systematic Approach* Calcutta: Orient Longman Limited, 1997.
- ❖ L. R. Singh, *Fundamentals of Practical Geography* 2011.
- ❖ Gopal Singh, *Map Work and Practical Geography* New Delhi: Vikas Publishing House Pvt. Ltd., 1996.
- ❖ R. L. Singh and L. R. S. Kanaujia, *Map Work and Practical Geography* Allahabad: Central Book Depot.
- ❖ R. L. Singh and P. B. Rana, *Elements of Practical Geography* New Delhi: Kalyani Publishers, 1998.
- ❖ अर्जुन कुंभार, *प्रात्यक्षिक भूगोल डोंबिवली पूर्व*, जि. ठाणे: सुमेरू प्रकाशन, २०१४.
- ❖ एस. बी. शिंदे, *नकाशाशास्त्र कोल्हापूर*: फडके प्रकाशन, २००२.
- ❖ दूर शिक्षण केंद्र, *नकाशाशास्त्र कोल्हापूर*: शिवाजी विद्यापीठ, २००९.
- ❖ के. ए. खतीब, *समग्र प्रात्यक्षिक भूगोल कोल्हापूर*: संजोग प्रकाशन, २०१३.
- ❖ ई. के. करंजखेले आणि डी. वाय. अहिरराव, *प्रात्यक्षिक भूगोल नाशिक*: सुदर्शन प्रकाशन, २०१०.

Evaluation Pattern:	
Total Marks:100	
Internal Continuous Evaluation:	<u>End Semester Examination Question Paper Pattern for 60 Marks</u>
Activities 40 Marks: For major paper of 4 credit 1. Class Test online/ Offline- 20 Marks 2. Subject Specific Activity- 20 Marks	Separate Skeleton will be provide Practical examination 1 batch- 20 Students Internal examiner-02 External examiner-01

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016) Faculty of Science and Technology	
	Chhatrapati Shivaji College, Satara	
	Board of Studies in Geography	
	Programme: B.A. III	Semester- VI
	Type: Major Mandatory (MM)	Marks: 50
	Credits: 02	From: June 2026.
	Course Code: - MMGEO01612 Name of the Course: Economic Geography	
Course Objectives: Students should be able to..... 1) To understand the meaning of Economic Geography 2) To understand the nature and scope of Economic Geography. 3) To classify the Economic Activities. 4) To know the factors affecting on Location of Industrial and Agricultural activities.		
Course Outcome: Students will be able to..... 1) Understand the meaning of Economic Geography. 2) Understand the nature and scope of Economic Geography. 3) Classify the Economic Activities 4) Explain the factors affecting on Location of Industrial and Agricultural activities.		
Expected Skills impartation (Through theory and practical`s) 1) Comprehension skill 2) Analytical ability skills 3) Graphical Skill 4) Comprehension skill		
Module	Title & Content	Hrs.
1	Introduction to Economic Geography 1.1 Economic Geography: Meaning and definition 1.2 Economic Geography: Nature and Scope 1.3 Branches of Economic Geography 1.4 Significance of Economic Geography	15
2	Economic Activity 2.1 Concept and Classification of Economic Activities 2.2 Factors Affecting on Location of Agricultural Activity 2.3 Factors Affecting on Location of Industrial Activity 2.4 Alfred Weber’s Theory of Industrial Location	15
Reference Books: ❖ J. W. Alexander, <i>Economic Geography</i> New Delhi: Prentice-Hall of India, 1976. ❖ G. Alexandersson, <i>Geography of Manufacturing</i> New Delhi: Prentice-Hall of India, 1988. ❖ B. J. L. Berry, E. C. Conkling, and D. M. Ray, <i>Economic Geography</i> Englewood Cliffs, NJ: Prentice-Hall, 1988.		

❖ M. E. Eliot Hurst, <i>Geography of Economic Behaviour</i> London: Unwin, 1986. ❖ R. J. Johnston and P. J. Taylor, <i>A World in Crisis?</i> Oxford: Basil Blackwell, 1989. ❖ August Lösch, <i>The Economics of Location</i> New Haven: Yale University Press, 1954. ❖ M. Redclift, <i>Development and the Environmental Crisis: Red or Green Alternatives?</i> London: Methuen, 1987. ❖ B. N. Sinha, <i>Industrial Geography of India</i> Calcutta: World Press, 1971. ❖ H. D. Watts, <i>Industrial Geography</i> New York: Longman Scientific & Technical, 1987. ❖ Peter Haggett, <i>Geography: A Modern Synthesis</i>. ❖ H. Robinson and C. G. Bamford, <i>Geography of Transport</i> Plymouth: Macdonald & Evans, 1978.	
Evaluation Pattern:	
Total Marks: 50	
Internal Continuous Evaluation: Activities 20 Marks: Subject Specific Activity: - 20 Marks	End Semester Examination: Pattern for 30 Marks Instruction: 1) All Questions are Compulsory. 2) All Questions carry equal marks. 3) Figures to the right indicate full marks. Day and Date: Total Marks: 30 Time: One Hours ===== Q. 1. Choose the correct alternatives from the following 08 प्रश्न १. खालीलपैकी योग्य पर्याय निवडा. Q.2. Write short notes (Two out of Three) 10 प्रश्न २. टीपा लिहा (तीन पैकी दोन) Q.3. Answer the following question in broad. (One out of Two) 12 प्रश्न ३. खालील प्रश्नाचे सविस्तर उत्तर लिहा (दोन पैकी एक)

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016) Faculty of Science and Technology	
	Chhatrapati Shivaji College, Satara	
	Board of Studies in Geography	
	Programme: B.A. III	Semester- VI
	Type: Major Elective (ME)	Marks: 100
	Credits: 04	From: June 2026.
Course Code: - MEGEO01602 Geography P-XVI (A) Elective Paper –Political Geography		
Course Objectives: Students should be able to..... 1. To study the relationship between geography and political activities. 2. To know its role in understanding political issues. 3. To examine the dividing lines between political units. 4. To explore zones of transition between different regions. 5. To understand the influence of geography on international politics. 6. Highlights sea power and Rimland control for global influence. 7. Emphasizes land power as key to world dominance.		
Course Outcome: Students will be able to..... 1. Aware about political geography as a fundamental branch of Human Geography. 2. Familiarized with the basics and fundamental concepts of political geography including i. state, nation, territory, boundaries, frontiers, approaches. 3. Understand and compare theories of political geography. . 4. Know about resource conflicts and politics of displacement. 5. Engage quality information about contemporary political issues and explore our role i. within them; 6. Understand the linkages between geography and political policy and processes. 7. This course enables students to understand geography and international relations. 8. Knows the political map of India 9. It will improve research and presentation skills of students. 10. Understand relevance of political theories in modern context.		
Expected Skills impartation (Through theory and practical's) 1. Understanding skill 2. Comprehension skill 3. Analytical skill 4. Critical thing ability 5. Reasoning ability 5) Evaluating theories		

Module	Title & Content	Hrs.
1	Introduction to Political Geography 1.1 Definition of Political Geography 1.2 Nature and Scope of Political Geography 1.3 Approaches of Political Geography 1.4 Significance of Political Geography	15
2	Concepts in Political Geography 2.1 State 2.2 Nation 2.3 Boundary 2.4 Frontiers	15
3	Geopolitics and Theories in Political Geography 3.1 Geopolitics 3.2 Hartland Theory - Halford J. Mackinder 3.3 Rimland Theory – Nicholas J. Spykeman	15
4	Political Geography of Disputes and Resource Conflicts 4.1 Water sharing dispute - Krishna, Godavari, Cauvery, Narmada, Teesta river 4.2 Border dispute of India- China, Pakistan and Nepal	15

Reference books:

- ❖ S. Adhikari, *Political Geography* Jaipur: Rawat Publications, 1997.
- ❖ R. D. Dikshit, *Political Geography: A Contemporary Perspective* New Delhi: McGraw-Hill, 1985.
- ❖ R. L. Dwivedi, *Political Geography* Allahabad: Chaitanya Prakashan, 1996.
- ❖ Richard Muir, *Modern Political Geography* London: Macmillan, 1995.
- ❖ N. J. G. Pounds, *Political Geography*, 2nd ed. New York: McGraw-Hill, 1972.
- ❖ T. C. Sharma, *Political Geography*.
- ❖ J. Agnew, *Making Political Geography* London: Arnold, 2002.
- ❖ J. Agnew, K. Mitchell, and G. Toal, *A Companion to Political Geography* Oxford: Blackwell, 2003.
- ❖ K. R. Cox, M. Low, and J. Robinson, *The SAGE Handbook of Political Geography* London: SAGE Publications, 2008.
- ❖ K. Cox, *Political Geography: Territory, State and Society* Oxford: Wiley-Blackwell, 2002.
- ❖ C. Gallaher et al., *Key Concepts in Political Geography* London: SAGE Publications, 2009.
- ❖ M. Glassner, *Political Geography* New York: Wiley, 1993.
- ❖ M. Jones, *An Introduction to Political Geography: Space, Place and Politics* London: Routledge, 2004.
- ❖ H. M. Mathur and M. M. Cernea, eds., *Development, Displacement and Resettlement: Focus on Asian Experience* Delhi: Vikas Publishing House.
- ❖ J. Painter and A. Jeffrey, *Political Geography* London: SAGE Publications, 2009.
- ❖ P. Taylor and C. Flint, *Political Geography* Harlow: Pearson Education, 2000.

❖ M. K. Verma, <i>Development, Displacement and Resettlement</i> Delhi: Rawat Publications, 2004. ❖ Dick Hodder, Sarah J. Lloyd, and Keith S. McLachlan, <i>Landlocked States of Africa and Asia</i> , vol. 2. London: Frank Cass, 1998. ❖ के. ए. खतीब, <i>राजकीय भूगोल</i> कोल्हापूर: मेहता बुकसेलर्स, २०१३.	
Evaluation Pattern:	
TotalMarks:100	
Internal Continuous Evaluation:	<u>End Semester Examination Question Paper Pattern for 60 Marks</u>
Activities 40 Marks: For major paper of 4 credit 1. Project/ Seminar - 20 Marks 2. Online/ offline class test- 20 Marks	Instruction: 1) All Questions are Compulsory. 2) All Questions carry equal marks. 3) Figures to the right indicate full marks. Day and Date: Total Marks: 60 Time: Two Hours ===== Q. 1. Choose the correct alternatives from the following 15 प्रश्न १. खालीलपैकी योग्य पर्याय निवडा . Q.2. Write short notes (Three out of Four) 15 प्रश्न २. टीपा लिहा (चार पैकी तीन) Q.3. Write short answer (Three out of Four) 15 प्रश्न ३. थोडक्यात उत्तरे लिहा (चार पैकी तीन) Q.4. Answer the following question in broad. (One out of Two) 15 प्रश्न ४. खालील प्रश्नाचे सविस्तर उत्तर लिहा. (दोन पैकी एक)

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016) Faculty of Science and Technology	
	Chhatrapati Shivaji College, Satara	
	Board of Studies in Geography	
	Programme: B.A. III	Semester- VI
	Type: Major Elective (ME)	Marks: 100
	Credits: 04	From: June 2026.
	Course Code: - MEGEO01602 Geography P-XVI (B): Urban Geography	
Course Objectives: Students should be able to..... 1 To understand the meaning, nature, scope and characteristics of Urban Geography 2 To understand the approaches and significance of Urban Geography. 3 To classify factors of growth and distribution of urban settlement. 4 To analysis the urbanization trends in the world. 5 To design the site and situation of the settlements. 6 To construct the regional variations patterns and morphology of cities. 7 To identify the functions of urban cities and prepare table of functional classification of towns. 8 To know the elements of urban planning and its relation to concept of Garden and Smart City		
Course Outcome: Students will be able to..... 1. Understand the meaning nature, scope and characteristics of Urban Geography. 2. Understand the approaches and significance of Urban Geography. 3. Classify factors of growth and distribution of urban settlement. 4. Analysis the urbanization trends in the world. 5. Design the site and situation of the settlements. 6. Construct the regional variations patterns and morphology of cities. 7. Classify towns 8. Understand urban problems		
Expected Skills Impartation ➤ Comprehension skill ➤ Analytical ability skills ➤ Graphical Skill ➤ Comprehension skill ➤ Planning skill		
Module	Title & Content	Hrs.
1	Introduction to Urban Geography 1.1 Urban Geography: Meaning and Definitions 1.2 Nature and Scope of Urban Geography 1.3 Approaches of Urban Geography 1.4 Significance of Urban Geography	15

2	Urbanization 2.1 Site and Situation: Significance and Types 2.2 Concept and Factors of Urbanization 2.3 Patterns of Urbanization in India and UK 2.4 Functional classification of cities by Auroousseau and Howard Nelson	15
3	Structure and Morphology of Urban Centers 3.1 Structure and Morphology 3.2 City Region and C.B.D. 3.3 Rural-Urban Fringe 3.4 Models of Town Morphology: The Concentric Zone Theory, the Sector Theory and the Multi-Nuclei Theory	15
4	Urban Problems and Issues 4.1 Urban Issues: problems of housing, slums, civic amenities (water and transport), Pollution 4.2 Concept of Garden and Smart City 4.3 Urban Planning in India 4.4 Case studies of Mumbai and Chandigarh with reference to Land use and urban issues	15

Reference Book:

- ❖ C. D. Deshpande, *India: A Regional Interpretation* New Delhi: ICSSR, 1992.
- ❖ B. L. C. Johnson, ed., *Geographical Dictionary of India* New Delhi: Vision Books, 2001.
- ❖ K. A. Khatib, *Geography of India*.
- ❖ D. R. Khullar, *India: A Comprehensive Geography* New Delhi: Kalyani Publishers, 2007.
- ❖ Majid Husain, *Geography of India* New Delhi: Tata McGraw-Hill Education (India) Private Limited, 2013.
- ❖ R. B. Mandal, ed., *Patterns of Regional Geography: An International Perspective*, vol. 3, *Indian Perspective* New Delhi: Concept Publishing Company, 1990.
- ❖ R. L. Singh, *India: A Regional Geography* Varanasi: National Geographical Society of India, 1971.
- ❖ J. Singh, *India: A Comprehensive & Systematic Geography* Gorakhpur: Gyanodaya Prakashan, 2003.
- ❖ *Soil and Water Conservation Manual* New Delhi: Government of India.
- ❖ O. H. K. Spate and A. T. A. Learmonth, *India and Pakistan: A General and Regional Geography* London: Methuen, 1967.
- ❖ R. Tirtha, *Geography of India* Jaipur: Rawat Publications, 2002.
- ❖ R. C. Tiwari, *Geography of India* Allahabad: Prayag Pustak Bhawan, 2007.
- ❖ आर. एस. आडसूळ व इतर, *नागरी भूगोल कोल्हापूर: सप्रेम प्रकाशन, १९९८.*
- ❖ के. ए. खतीब, *नागरी भूगोल कोल्हापूर: मेहता बुकसेलर्स, २०१३.*
- ❖ के. ए. खतीब, *नागरी भूगोल पुणे: मेहता पब्लिशिंग हाउस, १९९८.*

Journal:

- Deccan Geographer
- Cartography and Geographic Information Science

- Goa Geographer
- Maharashtra Bhugolshastra Sanshodhan Patrika

Additional Reading

1. Pathak, C. R. (2003): Spatial Structure and Processes of Development in India. Regional Science Assoc., Kolkata.
2. Pawar C.T. & Others : Geography of India.
3. Savadi, Kolekar: Bharatacha Samarag Bhugol, Nirali Prakashan, Pune.
4. Sdyasuk Galina and Sengupta P., (1967): Economic Regionalisation of India, Census of India
5. Sharma, T. C. 2003: India - Economic and Commercial Geography. Vikas Publ., New Delhi.
6. Sharma, T.C. (2013): Economic Geography of India. Rawat Publication, Jaipur.

Evaluation Pattern:

Total Marks: 100

Internal Continuous Evaluation:	<u>End Semester Examination Question Paper Pattern for 60 Marks</u>
Activities 40 Marks: For major paper of 4 credit 1. Project/ Seminar - 20 Marks 2. Online/ offline class test- 20 Marks	Instruction: 1) All Questions are Compulsory. 2) All Questions carry equal marks. 3) Figures to the right indicate full marks. Day and Date: Total Marks: 60 Time: Two Hours ===== Q. 1. Choose the correct alternatives from the following 15 प्रश्न १. खालीलपैकी योग्य पर्याय निवडा . Q.2. Write short notes (Three out of Four) 15 प्रश्न २. टीपा लिहा (चार पैकी तीन) Q.3. Write short answer (Three out of Four) 15 प्रश्न ३. थोडक्यात उत्तरे लिहा (चार पैकी तीन) Q.4. Answer the following question in broad. (One out of Two) 15 प्रश्न ४. खालील प्रश्नाचे सविस्तर उत्तर लिहा. (दोन पैकी एक)

	Karmaveer Bhaurao Patil University, Satara (A State Public University) Faculty of Science & Technology	
	Chhatrapati Shivaji College, Satara	
	Board of Studies in Geography	
	Programme: B.A.,	Semester: VI
	Type : Minor (MN)	Marks : 100
	Credits : 4	From June-2026
	Course Code: MNGEO01606 Name of the Course: Human Geography-II	
Course Objectives: Students should be able to..... 1. To explain the meaning, nature, scope and significance of population geography. 2. To identify the sources of population data like primary and secondary. 3. To determine the factors affecting the distribution of population. 4. To analysis the population distribution and demographic composition. 5. To correlate the population with the resource and development. 6. To map the population data.		
Course Outcome: Students will be able to..... 1. Explain the meaning, nature, scope and significance of population geography. 2. Determine the factors affecting the distribution of population. 3. Show and analyse the population distribution pattern. 4. Calculate fertility, mortality with the help of data. 5. Depict population data with help of maps. 6. Understand the term migration and analyse the measures and methods of migration.		
Expected Skills Impartation ➤ Analytical Skills ➤ Spatial Thinking Skills ➤ Research Skills ➤ Problem-Solving Skills ➤ Communication Skills ➤ Decision-Making Skills ➤ Fieldwork Skills ➤ Environmental Awareness ➤ Critical Thinking Skills ➤ Technological Skills		
Module	Title & Content	Hours
1	Introduction to Population Geography 1.1 Population Growth 1.2 Distribution of Population 1.3 Factors affecting on population distribution 1.4 Concept-Optimum population, Over population & Under population	15
2	Population Change 2.1 Fertility	15

	2.2 Mortality 2.3 Sex Ratio 2.4 Marital Status and Dependent ratio	
3	Human Migration 3.1 Concept of Human Migration 3.2 Types of Migration 3.3 Causes and effect of Migration 3.4 Migration Policies of India and China	15
4	Population and Economic Development 4.1 Population Growth and resource development 4.2 Effects of over-population on Indian Economy 4.3 Malthus Theory of population growth 4.4 Demographic Transition Theory	15

Reference Books:

- ❖ H. R. Barrett, *Population Geography* Edinburgh: Oliver and Boyd, 1995.
- ❖ A. Bhende and T. Kanitkar, *Principles of Population Studies* Mumbai: Himalaya Publishing House, 2000.
- ❖ R. C. Chandna and M. S. Sidhu, *An Introduction to Population Geography* New Delhi: Kalyani Publishers, 1980.
- ❖ R. C. Chandna, *Jansankhya Bhugol* Delhi: Kalyani Publishers, 2006.
- ❖ National Digital Library of India, <https://ndl.iitkgp.ac.in/>.
- ❖ K. B. Newbold, *Population Geography: Tools and Issues* Lanham: Rowman and Littlefield Publishers, 2009.
- ❖ M. Pacione, *Population Geography: Progress and Prospect* London: Taylor and Francis, 1986.
- ❖ B. P. Panda, *Janasankhya Bhugol* Bhopal: M. P. Hindi Granth Academy, 1988.
- ❖ G. T. Trewartha, *A Geography of Population: World Patterns* New York: John Wiley, 1969.
- ❖ M. G. A. Wilson, *Population Geography* London: Nelson, 1968.
- ❖ विठ्ठल धारपुरे, *लोकसंख्या भूगोल* नागपूर: पिंपळापुरे अँड कंपनी प्रब्लिशर्स, १९९९.
- ❖ के. ए. खतीब, *लोकसंख्या भूगोल* कोल्हापूर: संजोग प्रकाशन, २०११.
- ❖ के. एम. भोसले आणि के. बी. काटे, *लोकसंख्याशास्त्र* कोल्हापूर: फडके प्रकाशन, २००६.
- ❖ ए. बी. सवदी आणि पी. एस. कोळेकर, *मानवी व लोकसंख्या भूगोल* पुणे: निराली प्रकाशन, २००३.

Journal:

- Deccan Geographer
- Cartography and Geographic Information Science
- Goa Geographer
- Maharashtra Bhugolshastra Sanshodhan Patrika

Medium of Instruction: Marathi / English Special instructions, if any: Marathi Library and laboratory equipment's:	
Evaluation Pattern:	
TotalMarks:100	
Internal Continuous Evaluation: Activities 40 Marks: ➤ Class Test online/ Offline- 20 Marks ➤ Subject Specific Activity- 20 Marks	<u>End Semester Examination Question Paper Pattern for 60 Marks</u> Instruction: 1) All Questions are Compulsory. 2) All Questions carry equal marks. 3) Figures to the right indicate full marks. Day and Date: _____ Total Marks: 60 Time: Two Hours ===== Q. 1. Choose the correct alternatives from the following 15 प्रश्न १ .खालीलपैकी योग्य पर्याय निवडा . Q.2. Write short notes (<i>Three out of Four</i>) 15 प्रश्न २. टीपा लिहा (चार पैकी तीन) Q.3. Write short answer (<i>Three out of Four</i>) 15 प्रश्न ३. थोडक्यात उत्तरे लिहा (चार पैकी तीन) Q.4. Answer the following question in broad. (<i>One out of Two</i>) प्रश्न ४. खालील प्रश्नाचे सविस्तर उत्तर लिहा. (दोन पैकी एक) 15

	Karmaveer Bhaurao Patil University, Satara (A State Public University) Faculty of Science & Technology		
	Chhatrapati Shivaji College, Satara		
	Board of Studies in Geography		
	Programme: B.A.,		Semester: VI
	Type : Skill Enhancement Course (SEC)		Marks:50
	Credits : 2		From June-2026
	Course Code: SEC GEO01603 Name of the Course : Advance Surveying & Mapping		
Objectives: Students should be able to..... ➤ To introduce the students a modern/advance technology of Surveying. ➤ To categorize the surveying and mapping. ➤ To offer practical training of GPS/ETS surveying and to the students ➤ To make students surveying experts. ➤ To generate job opportunities in the corporate and government sector/land record department..			
Course Outcomes: Students will be able to..... After studying the course the student will be able to ... CO1: Introduce a modern technology in Surveying and Mapping. CO2: Analysis the aims about database for surveying and mapping. CO3: Explain comprehensive knowledge about the surveying and map scale CO4: Invent the job opportunities in the corporate and government sector.			
Expected Skills Impartation ➤ Land Measurement Skills ➤ Map Reading and Interpretation ➤ Survey Instrument Handling ➤ Land Record Management ➤ Using geospatial technologies for land information management. ➤ Preparation of Survey Reports ➤ Legal and Revenue Knowledge ➤ Problem-Solving and Decision-Making Skills ➤ Computer and Digital Mapping Skills ➤ Communication and Teamwork Skills			
Module	Title & Content		Hours
1	Modern Land Surveying Techniques 1.1 GPS Survey: Hands-on GPS Receiver, field observation and GPS Reading, Introduction of Latitude, Longitude, Height, Route Tracking, GPS Data (Point, Line, Polygon) Collection and Attachment of the GPS data, Introduction of GPS Software (Map Source / Global Mapper), Measurements of height, distance, area, slope 1.2 Electronic Total Station (ETS)- Basic Terms used in Total Station Surveying, Total Station instrument components, Sources of error for total stations, Electronic Notebook, Advantage and disadvantage, To plot a small area measurements taken from ETS		15

2	Scale and Area Measurement 2.1.Introduction to Map Scale 2.2.Conversion of Scale 2.3.Scale and Area 2.4. Land/ Area Measurement	15
Reference Books: ❖ Charles D. Ghilani and Paul Richard Wolf, <i>Elementary Surveying: An Introduction to Geomatics</i> Upper Saddle River: Prentice Hall, 2008. ❖ T. P. Kanetkar and S. V. Kulkarni, <i>Surveying and Levelling</i> Pune: Pune Vidyarthi Griha Prakashan, 1986. ❖ V. Natarajan and Ron K. Adler, <i>Advanced Surveying</i> Bombay: B.I. Publications. ❖ A. V. Maslov, A. V. Gordeev, and Yu. G. Batrakov, <i>Geodetic Surveying</i> Moscow: Mir Publishers, 1984. ❖ Mahabhulekh, Government of Maharashtra, https://mahabhulekh.maharashtra.gov.in. Research Journals- • Bhumitarang • Land Record Additional readings: • E-Pik Pahani • Laws related to land measurement Medium of Instruction: Marathi/ English Special instructions, if any: Marathi		
Evaluation Pattern:		
Total Marks:50		
Internal Continuous Evaluation:20 Marks ➤ Group Discussion on any topic/field visit to Land Record Department-District/Tahsil Level, Apps/websites Related to land ➤ Home Assignment	<u>End Semester Examination Question Paper Pattern for 30 Marks</u> Instruction: 1) All Questions are Compulsory. 2) All Questions carry equal marks. 3) Figures to the right indicate full marks. Day and Date: Total Marks: 30 Time: One Hours ===== Q. 1. Choose the correct alternatives from the following 08 प्रश्न १. खालीलपैकी योग्य पर्याय निवडा. Q.2. Write short notes (Two out of Three) 10 प्रश्न २. टीपा लिहा (तीन पैकी दोन) Q.3. Answer the following question in broad. (One out of Two) 12 प्रश्न ३. खालील प्रश्नाचे सविस्तर उत्तर लिहा (दोन पैकी एक)	

	Karmaveer Bhaurao Patil University, Satara (A State Public University Est. u/s3(6) of MPUA 2016) Faculty of Science and Technology	
	Chhatrapati Shivaji College, Satara	
	Board of Studies in Geography	
	Programme: B.A. III	Semester- VI
	Type: On Job Training (OJT)	Marks: 50
	Credits: 02	From: June 2026.
	Course Code: - OJTGEO01605 Title of the course: ON JOB TRAINING: OJT (Internship)	
Course Objectives: Students should be able to..... 1. To acquaint the students with theoretical knowledge and skills in a practical setting. 2. To acquaint the students with Developing and enhancing professional skills necessary for a career in geography. 3. To acquaint the students with geographical settings and specialties. 4. To acquaint the students with professional networking and collaboration opportunities. 5. To acquaint the students with personal and professional growth.		
Course Outcome: Students will be able to..... 1. Apply theoretical knowledge and skills in a practical setting. 2. Develop and enhance professional skills necessary for a career in geography. 3. Gain exposure to various geographical settings and specialties. 4. Foster professional networking and collaboration opportunities. 5. Reflect on personal and professional growth. 6. Improve their professional skills related to their employability; 7. Do team work and manage on job practical difficulties		
Expected Skills impartation: 1. Expected Skills impartation (Through theory and practical`s) 2. Understanding skills 3. Diagnostic Skills 4. Comprehension skill 5. Analytical skill 6. Comparison skills 7. Therapeutic Skills 8. Professional Skills.		
Course Description:		Hrs

The Internship Program is designed to provide students with practical experience in the field of geography. This course aims to bridge the gap between theoretical knowledge and real-world application by engaging students in supervised internships. Through this program, students will gain hands-on experience, develop professional skills, and enhance their understanding of the field.	120
Instructions for teachers and students while doing On-the-Job Training: Joining Report of On Job Training: Students are expected to join for their on job training with prior intimation to the department. They are expected to carry out work under the guidance of job supervisor. 1. Selection of geographic Institute/Organization/Consultant/Professional/Agro-tourism center/ GIS industry/geological department/ land Record department/etc. should be based on the areas in the mandatory or elective courses in the concerned subject. 2. The Institute/Organization/Consultant/Professional/Agro-tourism center/ GIS industry/geological department/ land Record department/etc., under whom the Training/Internship/ Apprenticeship is expected, should be FORMALLY ASSIGNED (In Written Form) by concerned teacher to every student. 3. Submission of On-the-Job-Training Report duly signed and certified by concerned teacher/guide is A PRE-REQUISITE FOR APPEARING TO VIVA-VOCE EXAMINATION. 4. TWO COPIES of On-the-Job-Training Report in BOUND FORMAT should be submitted before Viva-Voce. One copy will be kept by department and the remaining will be returned to student. 5. Students need to submit report of their work in prescribed format. 6. Internal assessment while on job training will be done by the job supervisor and need to be forwarded to the Department/ College/University	
Important Notes for Teachers: 1. Prepare a Draft Letter for getting permission from the appropriate authority within the Institute/Organization or from Consultant/Professional/ Hospital/Health Care Center etc. for the On-the-Job-Training/Internship/Apprenticeship. 2. Prepare an Appropriate Format for Writing the On-the-Job Training Report. Kindly see that the First Page and Certificate Page are common for all students. In the remaining part, try to maintain uniformity. 3. Joining Report of On Job Training: Students are expected to join for their on job training with prior intimation to the department. They are expected to carry out work under the guidance of job supervisor. 4. On Job Training Placement: Students can join any institution/ corporation/ industry as per their choice but within the scope of the subject area.	

FORMAT OF THE OJT-INTERNSHIP: PROJECT/ DISSERTATION

STUDENT FINAL WRITTEN REPORT

Student's Name: -----

Name of the College: -----Class: -----

-----Semester: -----Paper Name: -----

-----Seat Number: -----Year -----

-----Internship Site/ Name of the Institution: -----

-----Supervisor's Name: -----

• **Introduction:**

This section should provide an overview of the internship experience, including the organization where the internship took place, the duties and responsibilities of the internship, and the student's goals and objectives.

• **Description of the organization:**

This section should provide a brief overview of the organization where the internship took place, including its mission, goals, and services.

• **Duties and responsibilities:**

This section should describe the specific tasks and responsibilities the student had during the internship, as well as any notable projects or activities they were involved in.

• **Learning and accomplishments:**

This section should highlight the key learning and accomplishments the student achieved during the internship, including any skills or knowledge they gained, and any notable achievements or contributions they made to the organization.

• **Challenges and areas for improvement:**

This section should address any challenges or areas for improvement the student encountered during the internship, and should reflect on how they overcame these challenges or developed strategies for improvement.

• **Reflection:**

This section should provide a more in-depth reflection on the student's overall learning and growth during the internship, and should consider how the experience has impacted their future goals and aspirations.

• **Conclusion:**

This section should summarize the key takeaways from the internship experience, and should discuss any future plans or goals that have been influenced by the internship.

• **Appendices:**

This section should include any supporting materials, such as reports, presentations, or Documents that were produced during the internship.

SCHEME OF MARKING FOR OJT EXAMINATION

END SEMESTER EXAMINATION: SEE (60 MARKS)

1. OJT Project/ Dissertation =60 Marks (Marks assessment by HOD/ Concerned teacher)

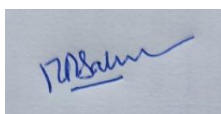
CONTINUOUS COMPREHENSIVE EVALUATION INTERNAL EVALUATION (40 MARKS)

1. OJT Project/ Dissertation Presentation= 20 Marks (Marks assessment by HOD/ Concerned teacher)
2. Voce Viva=10 Marks (Marks assessment by HOD/ Concerned teacher)
3. Attendance and Feedback=10 Marks (Marks assessment by HOD/ Concerned teacher)

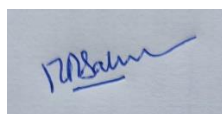
1 batch- 30 Students

Internal examiner-02

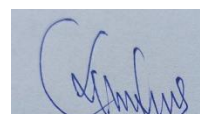
External examiner-01



**Head
Department of Geography**



**Chairman
BoS in Geography**



**Dean
Faculty of Science &
Technology**