

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

Faculty of Humanities

(Syllabus for As Per National Education Policy-NEP-2020)

Three Years-Six Semesters Bachelor's Degree Programme

Degree of Bachelor Arts

(B.A. Semester-III,IV,V,VI)

Department Specific Core (DSC)

Subject- Geography (Minor)

(DSC-Code- 622)

Board of Study – Geography

(Revised From- Academic Year-2026-2027)

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
5.0	III	622251	Minor III (T) Human Geography	2	30 Hrs	2 Hrs	External -30 Internal - 20 Total -50
Course Objectives:		1)To introduce the fundamental concepts, meaning, and definitions of Human Geography 2) To familiarize students with the major tribes of India such as Gond, Korku, Santhal, and Bhil, focusing on their geographical distribution, socio-cultural characteristics, and traditional practices. 3) To analyze the patterns of population growth and distribution in India and examine the various physical, economic, social, and political factors influencing these patterns. 4)To identify and critically analyze the major problems faced by Indian agriculture					
Course Outcomes:		1)Understand and explain the meaning, definition, nature, and scope of Human Geography 2) Analyze the socio-cultural aspects of major Indian tribes including Gond, Korku, Santhal, and Bhil, and understand their geographical distribution and traditional lifestyles. 3) Assess the patterns of population growth and distribution in India and examine the key factors influencing the distribution of population. 4) Classify the types of agriculture practiced in India and explain the various physical, climatic, and socio-economic factors affecting Indian agriculture.					
Unit System		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
Unit I		Meaning and Definition of Human Geography, Nature and scope of Human Geography, Branches of Human Geography, Importance of Human Geography	8 Hrs.	8 Marks	Structured lectures supported by presentations to introduce core concepts such as Human Geography, its branches, and the importance of studying human-environment interactions. Use of case studies on Indian tribes (Gond, Korku, Santhal, Bhil) and specific regions to enhance understanding of tribal lifestyles Class discussions, debates, and question-answer sessions to encourage critical thinking on		
Unit II		Indian Major Tribe: Gond, Korku, Santhal, Bhil	7 Hrs.	7 Marks			
Unit III		Population growth and distribution of India, Factors affecting on distribution of population, Composition of Indian population: Gender and Literacy	8 Hrs.	8 Marks			

Unit IV	Agriculture: Types of Agriculture, Factors affecting Indian Agriculture, Problems of Indian Agriculture	7 Hrs.	7 Marks	topics like population distribution, gender ratio, and literacy issues in India.
References:	1. Bergwan, Edward E: Human Geography; Culture, Connections and Landscape, Prentice-Hall, New Jersey.1995. 2. Carr, M.: Patterns, Process and change in Human Geography. MacMillan Education, London, 1987. 3. Fellman, J.L.: Human Geography—Landscapes of Human Activities. Brown and Benchman Pub.,U.S.A., 1997. 4. D.S. Lal: Climatology, Sharda Pustak Bhavan, Allahabad, 2010. 5. Majid Hussin; Human Geography, Sixth Edition, Book Emporium, Guwahati, 2020 6. सवदी व कोळेकर; मानवी भूगोल,निराली प्रकाशन पुणे २०२०. 7. सवदी व कोळेकर; प्राकृतिक भूगोल. निराली प्रकाशन पुणे. २०२०. 8. दाते व दाते; प्राकृतिक भूविज्ञान अनिरुद्ध पब्लिकेशन हाऊस, पुणे२०२०. 9. आर. जी. जाधव; मानवी भूगोल. प्रारूप पब्लिकेशन, कोल्हापूर. २०१९. 10. मोरे व पगार; ; प्राकृतिक भूगोल. निराली प्रकाशन, पुणे.२०१९. 11. शिंदे ,चोरे, धुलगुडे व शिंदे ,मानव भूगोल फडके प्रकाशन कोल्हापूर, २०२३.			
Internal Assessment Theory (20Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, case study, field work mini project work quiz or any innovative method, which may be deemed to be appropriate for assessing the relevant course outcomes.			

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
5.0	III	622252	Minor III (P) Statistical Method	2	60 Hrs	2 Hrs	External -25 Internal - 25 Total -50
Course Objectives:		1)To introduce the fundamental concepts and importance of data collection, classification, and presentation in geographical and social research. 2) To familiarize students with the preparation of statistical series and frequency distributions, enabling them to organize and present data systematically. 3)To equip students with the knowledge and skills to calculate and interpret measures of central tendency including Mean, Median, and Mode for both grouped and ungrouped data.					
Course Outcomes:		1)Understand the basic concepts of data, its types, and the significance of data collection in geographical and statistical studies. 2)Organize collected data into statistical series and frequency distributions for systematic presentation and interpretation. 3)Calculate measures of central tendency (Mean, Median, Mode) for both grouped and ungrouped data accurately.					
Unit System		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
A.		Introduction , Collection of Data, Sample Study, Statistical Series, Frequency Distribution	28 Hrs.	7 Marks	1)Structured lectures to introduce theoretical concepts of data, data collection methods, sampling techniques, and measures of central tendency. 2)Step-by-step demonstration of how to create statistical series, frequency distributions, and how to calculate mean, median, and mode for both grouped and ungrouped data. 3)Use of real or simulated data sets for practice in data collection, sample studies, and data analysis. 4)Incorporation of statistical software (like Excel, SPSS, or calculators) to demonstrate data organization, frequency distribution, and statistical computations.		
B.		Measures of Central Tendency, Mean, Mode & Median (Group and ungroup Data)	32 Hrs.	8 Marks			
C.		Practical Record	---	5 Marks			
D.		Viva Voce	----	5 Marks			
References:		1) Singh L.R. 2020: Fundamentals of Practical Geography shrada Pustak Bhawan Allahbad 2) Singh R. I. & Datta : Elements of Practical Geography 3) Kannan Monika and Shilpi Yadav (2022): Practical Geography Rawat Publication Jaipur 4) शिंतोळे तुषार(2020): प्रात्यक्षिक भूगोल डायमंड पब्लिकेशन 5) Khullar D.R. (2022): Prayogatmak Bhugol Kalyani Publication 6) शर्मा जे.पी. (२०१९): प्रयोगात्मक भूगोल की रूपरेखा रस्तोगी पब्लिकेशन मेरठ Weblink to Equivalent MOOC on SWAYAM if relevant: Weblink to Equivalent Virtual Lab if relevant: Any pertinent media (recorded lectures, YouTube, etc.) if relevant:					
Internal Assessment Practical (25 Marks)		Internal assessment for practical work evaluates students' practical skills, fieldwork experience, record maintenance, and understanding of geographical techniques. It includes practical journal submission, field survey/report, viva-voce, and active participation in practical sessions. This assessment helps develop observational, analytical, and mapping skills.					

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
5.0	IV	622253	Minor IV (T) Agriculture Geography of India	2	30 Hrs	2 Hrs.	External-30 Internal-20 Total-50
Course Objectives:		1) To provide students with an in-depth understanding of the spatial patterns, processes, and issues related to agriculture in India. 2) Examine the physical and human factors influencing agricultural practices and patterns in different regions of India. 3) Group projects on regional economic development, trade networks, or resource distribution; group map analysis or debates on trade policies. 4) Online modules, interactive maps, video lectures, discussion forums on current economic events or spatial trends.					
Course Outcomes:		1) Define and explain key concepts in agricultural geography with specific reference to India’s diverse agricultural landscape. 2) Identify and analyze the spatial distribution of major crops and farming systems across different agro-climatic zones of India. 3) Discuss current issues such as climate change, land degradation, and sustainable agriculture in the Indian context. 4) Apply geographic methods and critical thinking to propose solutions for improving agricultural efficiency and rural development					
Unit System		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
Unit I		Meaning, Definition, Nature, Scope and significance of Agriculture Geography	8 Hrs	8 Marks	- Students connect geographic theory with the real-world dynamics of Indian agriculture. - Observations of crop diversity, land use, and farming practices in different regions. - Thematic maps of crop distribution, rainfall, soil types, and irrigation networks.		
Unit II		Effect Determine Factor of Agricultural: Physical, Economic, Social, Biotic Factors	7 Hrs	7 Marks			
Unit III		Types of Agriculture: Primitive Agriculture, Intensive Agriculture, Plantation Agriculture, Shifting agriculture, Mixed Farming, Horticulture Farming	8 Hrs	8 Marks			
Unit IV		Majors Crops: Food Crops:Rice, Wheat, Jawar, Pulses, Commercial Crops: Cotton, Sugarcane, Soybean	7 Hrs	7 Marks			
References:		Reference Books: 1) Ali Mohmad (1978): Studies in Agricultural Geography, Rajesh Publication, New Delhi. 2) Hussain M. (1979): Agricultural Geography, Inter India Publication, Delhi 3) Sengupta P. (1968): Agricultural Regionalization of India, Census of India, New Delhi					

	4) Singh, Jasbir(1984), Jasbir and S. S. Dhillion (1984): Agricultural Geography, Tata Mc Grow Hill Pub. Co. New Delhi 5) Tiwari P.S. (1988): Agricultural Geography, New Delhi 6) शर्मा बी. एल. (1988): कृषि भूगोल, साहित्य भवन, आग्रा 7) सिंह, ब्रजभूषण (1979): कृषि भूगोल, तारा पब्लिकेशन, वाराणसी. 8) तिवारी आर.सी.(1994): कृषि भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद. 9) प्रमिला कुमार, श्री. कमल शर्मा (1985): कृषि भूगोल, मध्य प्रदेश हिंदी ग्रंथ अकादमी, भोपाल 10) पाटील व्ही. जे., भाटेवाल दादासाहेब, डाके एस. व्ही. (2022): कृषि भूगोल, प्रशांत पब्लिकेशन, जळगाव. 11) डॉ.सचिन भोम्बे (२०२५): कृषि भूगोल, ज्ञानपथ प्रकाशन, अमरावती
Internal Assessment Theory (20 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, Assignment, case study, field work, mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
5.0	IV	622254	Minor IV (P) Cartographic Techniques and Statistical Methods	2	60 Hrs	2 Hrs	External-25 Internal-25 Total-50
Course Objectives:		1.The cartographic method typically focuses on equipping students with the knowledge and skills needed to understand, analyze, and produce maps effectively. . 2. Develop the ability to accurately read, interpret, and analyze different types of maps, such as topographic, thematic, and navigational maps. 3. Acquire skills to design and produce effective and aesthetically pleasing maps using both manual and digital techniques. 4. Develop the ability to assess the quality, accuracy, and effectiveness of maps and visual representations.					
Course Outcomes:		1. Demonstrate the ability to construct Diagrams manually, representing trends and changes in data over a continuous variable. 2. The students will be able to acquire knowledge of digital tools to create Diagrams. 3. Demonstrate an understanding of fundamental cartographic principles and basic statistical methods used in geographic analysis. 4. Critically assess the quality, precision, and reliability of maps and statistical data outputs. 5. Present geographic and statistical results clearly through reports, presentations, and visual materials.					
		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
A.		Introduction to cartographic Method: 1) Dot Method 2) Choropleth Method (Use and limitations at least 01 example of each manually and using computer with using MS Excel)	28 Hrs	7Marks	- Student engagement, understanding, and application of complex concepts. - Hands-on exercises in map drawing, symbolization and Collecting sample data and applying descriptive statistics manually and using software (Excel, SPSS)		
B.		Measures of Central Tendency, Mean, Mode & Median (Group and ungroup Data)	32 Hrs	8 Marks			
C.		Practical Record	-----	5 Marks			
D.		Viva Voce	-----	5 Marks			
References:		1) Singh R.L.(2020):Fundamentals Of Practical Geography. Shrada Pustak Bhawan,Allahbad. 2) Singh R.L. And Datta : Elements of Practical Geography 3) शिंतोळे तुषार(2020): प्रात्यक्षिक भूगोल डायमंड पब्लिकेशन 4) KhullarD.R. (2022): Prayogatmak Bhugol, Kalyani Publication, New Delhi. 5) शर्मा जे.पी. (२०१९): प्रयोगात्मक भूगोल की रूपरेखा रस्तोगी पब्लिकेशन मेरठ 6) Sing R. L.(2015) : Elements of Practical Geography Manav Books 7) कुंभारे अर्जुन,: प्रात्यक्षिक भूगोल,सुमेरु प्रकाशन, दोम्बिवल्ली ठाणे.					
Internal Assessment (25 Marks)		Internal assessment for practical work evaluates students' practical skills, fieldwork experience, record maintenance, and understanding of geographical techniques. It includes practical journal submission, field survey/report, viva-voce, and active participation in practical sessions. This assessment helps develop observational, analytical, and mapping skills					

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
5.5	V	622255	Minor V (T) Physical Geography of India	2	30 Hrs	2 Hrs.	External -30 Internal - 20 Total -50
Course Objectives:		1. To understand the location, extent, shape and significance of India. 2. To study the physical divisions and drainage system of India. 3. To learn about the climate of India and monsoon system. 4. To understand soils and natural vegetation and their distribution.					
Course Outcomes:		1. Students will be able to describe the location, extent and geographical significance of India. 2. Students will understand and explain the major physical divisions and drainage system of India. 3. Students will analyse the climate of India, monsoon mechanism and rainfall distribution. 4. Students will identify different soils, natural vegetation and their distribution in India.					
Unit System	Contents			Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies	
Unit I	General Introduction of India: Shape, size and extent of India, Location and its significance ,Natural and political boundaries of India, India as a land of diversity, Unity in diversity in India			8 Hrs.	7 Marks	Lecture Method – To explain the shape, size, extent, location, boundaries, and diversity of India through classroom teaching. Map-Based Learning – Use of political and physical maps to study physical divisions, drainage systems, rivers, soils, and natural vegetation of India. Audio-Visual Teaching – Use of charts, diagrams, videos, and presentations to explain monsoon mechanisms, climate patterns, and environmental changes. Group Discussion and Seminar – Discussions on unity in diversity, climate change impacts,	
Unit II	Physical Divisions and Drainage System: Physical divisions of India:-Northern Mountains, Northern Plains, Peninsular Plateau, Coastal Plains, Islands Drainage system of India:- Himalayan rivers, Peninsular rivers, Importance of rivers			7 Hrs.	8 Marks		
Unit III	Climate of India: Seasons of India, Origin and mechanism of monsoon, Distribution of rainfall in India, Western disturbances ,Climate change and its impact on India			7 Hrs.	7 Marks		

Unit IV	Soils and Natural Vegetation: Classification and Distribution of Indian soils, Natural vegetation of India. Types and distribution of forests, Conservation of forests	8 Hrs.	8 Marks	forest conservation, and the significance of rivers.
References:	1) Deshpande C. D.: India A Regional Interpretation, northern Bok Center, New Delhi 1992. 2) Sing R. L. Regnol Geography National Geography Society India Varanasi 1995. 3) Wadia D. N. Geology of india Macmillan & Co. Calcutta. 4) Khullar D. R.- India - A Comprehensive Geography, Kalyani Publishers 2011. 5) अहिरराव, अलीशहा, धापते, धरात भारताचा भूगोल निराली प्रकाशन पुणे. 6) सारंग सुभाषचंद्र: भारताचा भूगोल विद्या प्रकाशन नागपूर. 7) धारपुरे विठ्ठल: भारत भौगोलीक विप्लेषण पिंपळापुरे प्रकाशन नागपुर 8) धारपुरे विठ्ठल: भारताचा भूगोल पिंपळापुरे प्रकाशन नागपुर 9) धारपुरे विठ्ठल : भारताचा भूगोल पिंपळापुरे प्रकाशन नागपुर 10) चातुभुज मामोरीया: प्रत्यक्षिक भूगोल सुमेरु प्रकाशन डोंबिवली पूव १९९८			
Internal Assessment Theory (20 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, case study, field work mini project work quiz or any innovative method, which may be deemed to be appropriate for assessing the relevant course outcomes.			

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
5.5	V	622256	Minor V (P) Indian Topographical Maps	2	60	2 Hrs.	External-25 Internal-25 Total-50
Course Objectives:		1.To understand the basic concepts and significance of topographical maps. 2.To learn the symbols, scales, and grid reference systems used in topographical maps. 3.To identify and interpret natural and cultural features from topographical maps. 4.To develop skills in topographical map analysis and report writing.					
Course Outcomes:		1. To understand the basic concepts and significance of topographical maps. 2.To learn the symbols, scales, and grid reference systems used in topographical maps. 3.To identify and interpret natural and cultural features from topographical maps. 4. To develop skills in topographical map analysis and report writing.					
Unit System		Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
A.		Introduction to Indian Topographical Maps Meaning, Definition and Importance of Topographical Maps, Characteristics and Uses of Topographical Maps, Survey of India Topographical Sheets Scale, Direction and Conventional Signs Grid Reference System (Four-Figure and Six-Figure Grid References) Representation of Relief by Contours	28 Hrs.	7 Marks	Classroom lectures and demonstrations. Map-reading and interpretation exercises. Practical work using Survey of India toposheets. Group discussions and project-based learning. Assignment and report-writing activities.		
B.		Interpretation of Indian Topographical Maps - Identification of Natural Features: Relief , Drainage, Vegetation - Identification of Cultural Features: Settlements , Transport Networks , Land Use - Slope Analysis and Gradient - Preparation of Topographical Map	32 Hrs.	8 Marks			

	Interpretation Report • Practical Exercises on Survey of India Toposheets			
C.	Practical Record	----	5 Marks	
D.	Viva Voce	----	5 Marks	
References:	1) Singh L.R. 2020: Fundamentals of Practical Geography shrada Pustak Bhawan Allahbad 2) Singh R. I. & Datta : Elements of Practical Geography 3) Kannan Monika and Shilpi Yadav (2022): Practical Geography Rawat Publication Jaipur 4) शिंतोळे तुषार(2020): प्रात्यक्षिक भूगोल डायमंड पब्लिकेशन 5) Khullar D.R. (2022): Prayogatmak Bhugol Kalyani Publication 6) शर्मा जे.पी. (२०१९): प्रयोगात्मक भूगोल की रूपरेखा रस्तोगी पब्लिकेशन मेरठ Weblink to Equivalent MOOC on SWAYAM if relevant: Weblink to Equivalent Virtual Lab if relevant: Any pertinent media (recorded lectures, YouTube, etc.) if relevant:			
Internal Assessment (25 Marks)	Internal assessment for practical work evaluates students' practical skills, fieldwork experience, record maintenance, and understanding of geographical techniques. It includes practical journal submission, field survey/report, viva-voce, and active participation in practical sessions. This assessment helps develop observational, analytical, and mapping skills.			

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
5.5	VI	622257	Minor VI (T) Geography of Maharashtra	2	30 Hrs	2 Hrs	External-30 Internal-20 Total-50
Course Objectives	1. To understand the geographical location and physical divisions of Maharashtra. 2. To study the drainage system, climate, soils, and natural vegetation of Maharashtra. 3. To examine the distribution and importance of major crops in Maharashtra. 4. To understand the mineral and power resources of Maharashtra. 5. To analyze the development of major industries in Maharashtra. 6. To develop knowledge about the economic geography of Maharashtra.						
Course Outcomes	1. Students will explain the location and physical features of Maharashtra. 2. Students will describe the climate, soils, drainage, and vegetation of the state. 3. Students will identify the distribution of major crops and agricultural regions. 4. Students will assess the importance of mineral and power resources. 5. Students will analyze the growth and distribution of major industries. 6. Students will evaluate the geographical factors influencing Maharashtra's economy.						
Unit System	Contents		Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
Unit I	Maharashtra in the context of India ,Physical division of Maharashtra, Drainage System of Maharashtra .		8 Hrs.	8 Marks	Lecture Method – To explain Maharashtra's location, physical divisions, climate, soils, vegetation, agriculture, minerals, power resources, and industries. Map-Based Learning – Use of maps to study physical divisions, drainage systems, rainfall distribution, mineral belts, and industrial regions of Maharashtra. Audio-Visual Method – Use of charts, PPTs,		
Unit II	Climate: Distribution of rainfall, Soil Types, Vegetation		7 Hrs.	7 Marks			
Unit III	Major Crops in Maharashtra: Wheat, Rice, Jawar, Cotton & Sugarcane.		8 Hrs.	8 Marks			

Unit IV	Maharashtra: Minerals : Manganese, Bauxite and iron ore, Power Resource : Coal, Hydro-electricity, Major Industries : Cotton Industry & Sugarcane Industry.	7 Hrs.	7 Marks	videos, and thematic maps to illustrate crops, industries, and natural resources. Group Discussion and Seminar – Discussions on agricultural development, industrial growth, resource utilization, and regional disparities in Maharashtra.
References:	1) Arunachalam B. : Geography of Maharashtra. 2) Deshpande C.D. : Geography of Maharashtra, Northern Book Centre, New Delhi. 3) Sawadi&Kecher : Maharashtra. 4) Deshpande : Economy of Maharashtra. 5) Dixshit K. R. : Maharashtra in Maps. DiddarJaymala :Geography of Maharashtra, Rawat publication. 2002 7) Censes Atlas : Govt. of Maharashtra. 8) Sing R. L. : Elements of Practical Geography, Manav Books. 2015 9) फुले सुरेश : महाराष्ट्राचा भूगोल औरंगपुरा, औरंगाबाद .२००९ 10) केचे पांडुरंग : महाराष्ट्राचा भूगोल. 11) पाटील टी. पी. : महाराष्ट्राचा भूगोल. 12) सवदी ए. बी. : महाराष्ट्राचा भूगोल निराली प्रकाशन, पुणे. 13) सावंत प्रकाश : महाराष्ट्राचा भूगोल फडके प्रकाशन २००२ 14) धारपुरे विठ्ठल : महाराष्ट्राचा भूगोल पिंपळापुरे ,प्रकाशन, नागपूर २०१८. 15) मगर जयकुमार : महाराष्ट्राचा भूगोल, नागपूर.१९९० 16) पाटील व्ही.जे. : महाराष्ट्राचा भूगोल भूगोल, प्रशांत प्रकाशन २०१० 17) कार्लेकर श्रीकांत व सागळे शैलजा : महाराष्ट्राचा भूगोल, डायमंड प्रकाशन पुणे २००९ 18) डॉ. विजय टोम्पे व डॉ. सचिन भोम्बे (२०२६): महाराष्ट्राचा भूगोल, ज्ञानपथ प्रकाशन, अमरावती			
Internal Assessment Theory (20 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, case study, field work mini project work quiz or any innovative method, which may be deemed to be appropriate for assessing the relevant course outcomes.			

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
5.5	VI	622258	Minor VI (P) Standard Deviation and Correlation	2	60 Hrs	2 Hrs	External-25 Internal-25 Total-50
Course Objectives:		1. To understand the concept and significance of Standard Deviation and Correlation. 2. To develop skills in calculating Standard Deviation for geographical data. 3. To analyze the degree of variation and dispersion in datasets. 4. To understand the concept and types of Correlation in geographical studies. 5. To apply correlation techniques for examining relationships between geographical variables.					
Course Outcomes:		1. Students will calculate and interpret Standard Deviation. 2. Students will analyze the variation in geographical data. 3. Students will calculate and interpret Correlation coefficients. 4. Students will apply statistical techniques in geographical studies.					
Unit System	Contents		Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies		
A.	Standard Deviation • Meaning and Importance of Standard Deviation • Measures of Dispersion • Calculation of Mean • Calculation of Standard Deviation (Individual and Grouped Data) • Interpretation of Standard Deviation		28 Hrs.	7 Marks	Lecture and Interactive Discussion Method. Demonstration and Problem-Solving Approach. Practical Exercises using Statistical Data. ICT-Based Learning and Spreadsheet Applications. Project Work and Data Analysis Activities.		
	Correlation • Meaning and Types of Correlation • Positive, Negative and Zero Correlation • Karl Pearson's Coefficient of Correlation • Calculation and Interpretation of Correlation		32 Hrs.	8 Marks			

	Applications of Correlation in Geography			
C.	Practical Record	-----	5 Marks	
D.	Viva Voce	-----	5 Marks	
References:	1) Singh L.R. 2020: Fundamentals of Practical Geography shrada Pustak Bhawan Allahbad 2) Singh R. I. & Datta : Elements of Practical Geography 3) Kannan Monika and Shilpi Yadav (2022): Practical Geography Rawat Publication Jaipur 4) शिंतोळे तुषार(2020): प्रात्यक्षिक भूगोल डायमंड पब्लिकेशन 5) Khullar D.R. (2022): Prayogatmak Bhugol Kalyani Publication 6) शर्मा जे.पी. (२०१९): प्रयोगात्मक भूगोल की रूपरेखा रस्तोगी पब्लिकेशन मेरठ			
Internal Assessment Practical (25 Marks)	Internal assessment for practical work evaluates students' practical skills, fieldwork experience, record maintenance, and understanding of geographical techniques. It includes practical journal submission, field survey/report, viva-voce, and active participation in practical sessions. This assessment helps develop observational, analytical, and mapping skills.			