

M.A/M.Sc. Geography

(W.E.F. Academic Session 2024-2025 onwards)



Syllabus

(As per NEP 2020)

Pandit Deendayal Upadhyaya Shekhawati University
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Dr. Registrar
Shekhawati University,
Sikar (Rajasthan)

Curriculum Structure									
Session 2024-2025 onwards									
Name of the Program: MA / MSc Geography									
Year: First							Semester: I (Pawas)		
Course Code	Course Title	Contact Hrs per Week			Credits	Weightage (%)			
		L	T	P		CWS	MTE	EFE	
Discipline Specific Core (DSC):									
24MGS9101T	Geographical Thoughts	4	0	0	4	10	20	70	
24MGS9102T	Geomorphology	4	0	0	4	10	20	70	
24MGS9103T	Climatology & Oceanography	4	0	0	4	10	20	70	
24MGS9101P	Representation of Physical and Cultural Landscape and Climatic Data	4	0	0	4	--	--	100	
Discipline Specific Elective(DSE): (Select any one)									
24MGS9104T	Environmental Geography	4	0	0	4	10	20	70	
24MGS9105T	Biogeography	4	0	0	4	10	20	70	
Value Added Course(VAC):									
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Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):									
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	Total				22				

Summary: I Semester (Pawas)			Credits
S.N.	Particulars		
1.	Discipline Specific Core(DSC):		16
2.	Discipline Specific Elective (DSE):		04
3.	Value Added Course (VAC):		02
4.	Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):		00
Total			22
\$CW (Class work): It would include attendance, class test/quiz test/assignments, ppt, play, learn by fun activities etc.			

Note: VAC to be selected from the list of VAC courses for PG, given on University website.

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Curriculum Structure									
Session 2024-2025 onwards									
Name of the Program: MA / MSc Geography									
Year: First					Semester: II (Vasant)				
Course Code	Course Title	Contact Hrs per Week			Credits	Weightage (%)			ETE
		L	T	P		CW\$	MTE		
Discipline Specific Core (DSC):									
24MGS9201T	Research Methodology	4	0	0	4	10	20	70	
24MGS9202T	Human Geography	4	0	0	4	10	20	70	
24MGS9203T	Population Geography	4	0	0	4	10	20	70	
24MGS9201P	Practical	4	0	0	4	--	--	100	
Discipline Specific Elective(DSE): (Select any One)									
24MGS9204T	Urban Geography	4	0	0	4	10	20	70	
24MGS9205T	Social & Cultural Geography	4	0	0	4	10	20	70	
Value Added Course(VAC):									
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Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):									
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Total					22				

Summary: II Semester (Vasant)			Credits
S.N.	Particulars		
1.	Discipline Specific Core(DSC):		16
2.	Discipline Specific Elective (DSE):		04
3.	Value Added Course (VAC):		02
4.	Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):		00
Total			22
\$CW (Class work): It would include attendance, class test/quiz test/assignments, ppt, play, learn by fun activities etc.			

Note: VAC to be selected from the list of VAC courses for PG, given on University website.

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Semester – I**Learning Objectives**

- To make aware about the historical development of geographical thought and contribution of scholars in ancient, medieval and classical modern periods.
- To develop understanding of contributions of modern schools such as German, French, British and American schools and changing Man-Environment relationship, Dualisms in geography and changing paradigms in Geography.

Learning Outcomes

- Knowledge and understanding about ancient geographical development by Greek, Roman and Indian scholars and geographical development in Arab world.
- Learning about development of Geographical knowledge in modern schools and contributions by eminent geographers.
- Development of knowledge and understanding of changing Man-Environment relationship with changing paradigms in Geography.
- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:	Geographical Thoughts		Course Code: 24MGS9101T
Total Lecture hour 60			Hours
Unit I	Definition, Scope and Nature of Geography. Contribution of Greeks and Romans. Development of Geography in Ancient Indian Period.		15
Unit II	Contribution of Arab Scholars; Al-Biruni, Al-Masudi, Ibn Battuta & Ibn Khaldun. Dark Age in Europe, Impact of Renaissance on Development of Geography. Classical Modern Period; Contribution of Bernhardus Varenius, Immanuel Kant, A. Humboldt and C. Ritter.		15
Unit III	German School; Contribution of F. Ratzel, A. Hettner and Otto Schluter. French School; Contributions of La Blache and Jean Brunhes. British School; Contribution of H. Mackinder, P. Geddes, A. J. Herbertson, R. Chorley and P. Hagget. American School; Contribution of W. M. Davis, E. Huntington, E. C. Semple, Griffith Taylor, Carl O. Sauer, R. Hartshorne and D. W. Harvey.		15
Unit IV	Dualisms in Geography: Systematic vs. Regional, Qualitative vs. Quantitative Geography. Changing Paradigms of Man-Environment Relationship; Environmental Determinism, Possibilism and Neo-determinism. Recent Developments; Quantitative Revolution and Positivism, Behaviouralism, Humanistic Geography, Welfare and Radical Geography, Feminism, Structuralism and Postmodernism.		15
Reference Books:			
1	Dikshit R. D. (2000): Geographical Thought, A Contextual History of Ideas, Prentice Hall of India Pvt. Ltd.		
2	Martin G. J. (2005): All Possible Worlds, Oxford University Press Inc.		
3	Kausik S. D. and Rawat D. S. (2017): GEOGRAPHICAL THOUGHT and METHODOLOGY, Rastogi Publication, Merrut.		
4	Husain, Majid (2014): Evolution of Geographical Thought, Rawat Publications, Jaipur		
5	Adhikari S. (2015): Fundamental of Geographical Thought, Orient Blackswan Pvt. Ltd., New Delhi.		
6	कौशिक एस. डी. और रावत डी. एस. (2015): भौगोलिक विचारधारा एवं विधि, रस्तोगी पब्लिकेशन, मेरठ।		
7	हुसैन माजिद (2006): भौगोलिक चिंतन का इतिहास, रावत प्रकाशन, जयपुर।		
8	अग्रवाल एल. सी.: भौगोलिक विचारधाराएं, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।		
9	जेन एस. एम.: भौगोलिक चिंतन एवं विधि, साहित्य भवन प्रकाशन, अगराला।		

13	गुप्ताएस. एल.(2008): भूआकृति विज्ञान, हिन्दी माध्यम कार्यान्वय निदेशालय, दिल्ली विश्वविद्यालय।
14	दयालपी.(2014): भू-आकृति विज्ञान, राजेश प्रकाशन, नई दिल्ली।
15	खुल्लरडी. आर.(2022): भौतिक भूगोल, कल्याणी प्रकाशन, नई दिल्ली।
16	सिंहसविन्द्र(2018): भौतिक भूगोल का स्वरूप, प्रवालिका प्रकाशन, इलाहाबाद।

Learning Objectives

- To develop basic understanding about atmosphere structure and ocean characteristics.
- To give a comprehensive & integrated knowledge of various circulation patterns in atmosphere and oceans.

Learning Outcomes

- Knowledge and understanding of composition, structure and circulation of the atmosphere.
- Develop insights on contemporary climatic issues and challenges.
- Develop understanding about ocean characteristics, hydrological processes, dynamics of ocean water circulation and oceanic resources.
- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:	Climatology & Oceanography	Course Code: 24MGS9103T
Total Lecture hour 60		Hours
Unit I	Nature and Scope of Climatology. Composition and Structure of the Atmosphere. Insolation and Heat Budget of the Earth. World Distribution of Temperature. Atmospheric Pressure and Pressure Belts. Types of Winds; Planetary, Periodic and Local Winds. Jet Streams.	15
Unit II	Atmospheric Humidity; Types and Significance. Process of Cloud Formation and Types of Clouds. Forms of Precipitation. Types of Rainfall and World Distribution. Mechanism of Monsoon. El Nino, La Nina and Southern Oscillation. Air masses and fronts. Tropical and Temperate Cyclones. Atmospheric Stability and Unstability.	15
Unit III	Classification of World Climates; Work of Koppen and Thornthwaite. Major Climates of the World: Characteristics of Equatorial, Tropical, Monsoon, Savanna, Hot Desert, Mediterranean and Mountain type of Climate. Contemporary Issues; Climate Change, Global Warming, Ozone Depletion, Acid Rain, Urban Heat Island.	15
Unit IV	Nature and Scope of Oceanography. Ocean Bottom Relief; Pacific, Indian and Atlantic Oceans. Ocean Temperature, Salinity and Density: Factors Affecting and Distribution Patterns. Ocean Salinity; Sources, Composition and Distribution. Coral Reefs: Types, Distribution and Theories of Darwin, Daly, Murray and Davis. Tides: Types and Theories of Origin of Tides: Newton, Whewell and Harris. Ocean Currents; Indian, Atlantic and Pacific Ocean Currents. Marine Resources and Blue Economy. Sea Level Changes.	15
Reference Books:		
1	सिंहसविन्द्र (2016): जलवायु विज्ञान, प्रवालिका प्रकाशन, इलाहाबाद।	
2	सिंहसविन्द्र (2018): समुद्र विज्ञान, प्रवालिका प्रकाशन, इलाहाबाद।	
3	सिंहसविन्द्र (2020): जलवायु एवं समुद्र विज्ञान, प्रवालिका प्रकाशन, इलाहाबाद।	
4	लालडी. एस. (2022): जलवायु विज्ञान, शारदा पुस्तक भवन, प्रयागराज।	

5	लालडी. एस. (2012): जलवायु विज्ञान एवं समुद्र विज्ञान, शारदा पुस्तक भवन, प्रयागराज।
6	गुप्ताएस. एल.(2008): जलवायु विज्ञान, हिन्दी माध्यम कार्यान्वय निदेशालय, दिल्ली विश्वविद्यालय।
7	खुल्लरडी. आर. (2022): भौतिक भूगोल, कल्याणी प्रकाशन, नई दिल्ली।
8	सिंहसविद्र (2018): भौतिक भूगोल का स्वरूप, प्रवालिका प्रकाशन, इलाहाबाद।
9	Khullar, D.R. (2018): Physical Geography, Kalayani Publishers, New Delhi.
10	Strahler, A.N. and Strahler, A.H. (1989): Elements of Physical Geography. John Wiley & Sons, New York.
11	Hussain, M. (2021): Fundamentals of Physical Geography, Rawat Publication, Jaipur.
12	Critchfield H.J. (2009): General Climatology, Prentice Hall, London.
13	Sharma R.C. and Vatal M. (2018): Oceanography for Geographers, Surjeet Publications, New Delhi.
14	Lal D. S. (2022): CLIMATOLOGY, ShardaPustakBhawan, Prayagraj.
15	Singh Savindra (2020): CLIMATOLOGY, Pravalika Publication, Allahabad.

Learning Objectives

- To equip students with history of cartography and recent developments in this field. This paper includes the conceptualization of various basic aspects and representation of relief features and climatic data with the help of various diagrammatic and graphical methods of data representation.

Learning Outcomes

- Development of basic cartographic skills knowledge and history of development of cartography in India. Skill upgradation in cartographic techniques in the fields of representation of physical and cultural landscape.
- Knowledge gain in the fields of weather map construction with scientific representation of various weather phenomena and interpretation of weather conditions based on weather maps. Students are equipped with techniques of construction of diagrams and graphs to represent climatic data.
- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:	Representation of Physical and Cultural Landscape and Climatic Data	Course Code: 24MGS9101P
Unit I	History of Cartography. Cartographic development in India; Survey of India and NATMO. Concept of Ellipsoid, Datum and Projections. Scale and Scale Factor. Toposheets; Introduction and History. SOI and Nakshe Web Portal. Extraction of Geographical Information from Toposheets; Physical and Cultural Aspects. New Map Policy, 2005. New Series Topographic Maps (Open Series Maps).	
Unit II	Maps; Definition, Types and Uses. Representation of Relief; Qualitative Methods (Hachure System, Hill Shading, Trachographic and Morphographic Methods) Quantitative Methods (Spot Height, Bench Mark, Trigonometric Stations, Form Lines and Contour Lines and Composite Methods. Principles of Contouring, Interpolation Method. Profiles: Definition and Types. Drawing Profiles; Serial, Superimposed, Projected and Composite. Vertical Exaggeration of Scale. Introduction of Methods of Slope Analysis; C.K. Wentworth's Method.	
Unit III	Weather Maps: Introduction, Importance and Uses. Isotherms on Weather Maps (Isotherms, Isobars, Isotachs, Isohyets etc.). Weather Symbols; Wind Velocity and Cloud Cover. Interpretation of Indian Weather Maps (January and July). Introduction of Indian Portals for Climatic Data: Climatic Data Service Portal (CDSP), Indian Meteorological Department (IMD), Meteorological and Oceanographic Satellite Data Archival Centre (MOSDAC).	
Unit IV	Climatic Diagrams; Wind Rose, Rainfall Dispersion Diagram, Water Budget Diagram and Hypsometric	

	Curve. Climatic Graphs: Climograph, Hythergraph, Climatograph, Ergograph, Rainfall Variability Graph, Temperature Variation Graph and Altimetric Frequency Graph.
Reference Books:	
1	शर्मा, जे. पी. (2023): प्रायोगिक भूगोल, रस्तीगीपब्लिकेशन मेरठ।
2	खुल्लर, डी. आर. (2022): प्रयोगात्मक भूगोल, कल्याणी प्रकाशन, नई दिल्ली।
3	भल्ला एल. आर. (2017): प्रायोगिक भूगोल के मूलतत्त्व, सलोनी ऑफसेट, जयपुर।
4	शर्मा पी. एम. (2009): भूगोल में सांख्यिकीय विधियाँ, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।
5	Singh, L.R. (2010): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
6	Mishra, R. N. and Sharma, P. K. (2022): Practical Geography, Pareek Publication.
7	Singh, R.L. and Singh Rana P.B. (1991): Elements of Practical Geography. Kalyani Publishers, New Delhi.
8	Sarkar A. (2015): Practical geography, A systematic approach, Orient Black Swan Private Ltd. New Delhi.

Learning Objectives

- To develop familiarity and understand on the concepts, phenomenon and approaches relating to environment and ecology with a geographical perspective, changing man-environment relationship, increasing anthropogenic interventions and its impact on environment.
- To develop awareness about the grave environmental issues and challenges, facing by the mankind at different levels and to impart knowledge about the environmental governance, policy making and legislative frameworks at both national and international levels.

Learning Outcomes

- Increasing knowledge about the concept of environment, environmental processes and changing nature of man-environment relationship.
- Develop more awareness about anthropogenic interventions at different levels and impacts of these on the surrounding environment, conservation strategies and environmental planning.
- Develop insights on various efforts at national and international level for environmental conservation and restoration and assessment of these environmental programs, policies and legislations.
- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:	Environmental Geography	Course Code: 24MGS9104T
Total Lecture hour 60		
Unit I	Nature, Scope and Development of Environmental Geography, Its relation with other Disciplines. Environment and Ecosystem: Concepts and Approaches. Human Ecology, Environmental Functions, Trophic Levels; Food Chain, Food Web and Ecological Pyramid. Energy Flow, Environmental Cycles; Geo-chemical, Carbon, Nitrogen and Oxygen Cycles. Concept of Biodiversity and Its Conservation. Biodiversity Hot Spots in India.	15
Unit II	Human Interaction with Environment; Processes, Causes and Impacts. Urban Environmental Problems and Their Management; Urban Heat Island Effect, Atmospheric, Water and Noise Pollution, Solid Waste Management, Land Degradation and Land Conservation. Concept and Approaches of Environmental Impact Assessment (EIA).	15
Unit III	Environmental Hazards and Disasters; Vulnerability and Risk Assessment, Disaster Risk Reduction (DRR), Salient Features of Sendai Framework for DRR. Characteristics, Factors and Management of Landslides, Cyclones and Floods (with special reference to India). Contemporary Environmental Issues: Climate Change, Greenhouse Effect, Ozone Depletion, Flash Floods, Acid Rain, Desertification and	15

	Colonization and Dispersal. Environment Habital and Plant-Animal Association. Biome Types. Biomes and Hotspots. Alpha and Beta Diversity. Biodiversity in India.	
Unit III	Plant-Geography; Definition, Nature and Scope. Elements of Plant Geography. Factors Influencing Existence and Distribution of Plants. Plant Classification. Plant and Soil Association. Plants and Climate Association. Forest Types. Distribution of Forest in the World. National Forest Policy in India. Laws of Forest Conservation in India.	15
Unit IV	Zoo-Geography; Introduction, Nature and Scope. Evolution of Animals: Evolutionary Principles. Animal Classification. Animal Characteristics. Environmental Adaptations. Camouflaging and Luminescence. Zoogeographical Regions of the world. Species Invasions and Biotic Homogenization. Environmental Control on Animals. Geological Time scale with reference to flora and fauna associated with specific periods. Paleobiogeography and Fossils.	15
Reference Books:		
1	Singh Savindra (2020): BIOGEOGRAPHY, Pravalka Publication, Allahabad.	
2	Agrawal L. C. (2018): BIOGEOGRAPHY, Rawat Publication, Jaipur.	
3	Huggett R. J. (2005): Fundamentals of Biogeography, Routledge.	
4	Lomolino M. V. (2016): Biogeography Biological Diversity across Space and Time, OUP USA.	
5	Cox C. B. (2016): BIOGEOGRAPHY An Ecological and Evolutionary Approach, WILEY Blackwell.	
6	Singh R. B. (2009): Biogeography and Biodiversity, Rawat Publication.	
7	Bhattacharyya N. N. : BIOGEOGRAPHY, Rajesh Publication, New Delhi.	
8	जोशी आर. (2014): जैव भूगोल एवं जैव विविधता, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।	
9	सिंहसविन्द्र (2020): जैव भूगोल, प्रवालिका प्रकाशन, प्रयागराज।	
10	अग्रवाल एल. सी. (2002): जैव भूगोल, रोहिणी प्रकाशन, जयपुर।	

Semester - II**Learning Objectives**

- To educate students about the basics of research methodology and develop skills in qualitative and quantitative data analysis and presentation.
- To develop competencies to choose methods appropriate to research aims and objectives and understand the limitations of particular research methods along with developing advanced critical thinking and writing skills.

Learning Outcomes

- Develop understanding about research meaning, design and research methodology.
- Strengthening the capabilities to understand various sampling techniques, data nature, selection of variables, data collection tools, appropriate research methods, critical analysis etc.
- Knowledge and understanding of quantitative, qualitative and mixed methods, selection of appropriate research methods.
- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:	Research Methodology	Course Code: 24MGS9201T
Total Lecture hour 60		Hours
Unit I	Meaning, Characteristics and Purpose of Research. Research Approaches; Deductive and Inductive. Types of Research; Fundamental/Basic, Applied, Experimental, Exploratory, Descriptive, Explanatory, Cross Sectional and Longitudinal Research. Research Design.	15

Unit II	Major Steps in Scientific Research. Formulation of Research Problem. Research Introductio. Review of Literature. Research Objectives and Research Questions. Writing Hypothesis. Types of Hypothesis (Null & Alternative). Testing of Hypothesis.	15
Unit III	Research Methodology and Research Methods. Qualitative, Qualitative Mixed Methods. Types of Data; Primary and Secondary Sources. Sampling Techniques: Parametric and Non-parametric. Data Collection; Schedule and Questionnaire. Data collection Strategies; Experiment, Case Study, Content Analysis, Field Work and Observation, Field Survey. Data Analysis; Bi-variate and Multivariate Analysis. Test of Significance; 'Z' test, 't' test, 'F' test and Chi-square test.	15
Unit IV	Citation; MLA Style, APA Style, Chicago Style and Harvard Style. Dissertation or Report Writing. Types of Plagiarism, Research Ethics, Publication Misconduct. Various Indexes; Impact Factor, H Index, I-10 and I-1000 Index.	15
Reference Books:		
1	बंसलएस. च. (2021): शोध विधि तंत्र : भूगोल, मीनाक्षी प्रकाशन, मेरठ।	
2	शर्मावी.पी.(2021): रिसर्च मेथडोलोजी, पचशील प्रकाशन जयपुर।	
3	कटारियाएस.और पालीवाल एन. (2022): शोध प्रविधि, नेशनल पब्लिशिंग हाउस, जयपुर।	
4	सिंहएस. कु. (2019): समकालीन शोध विधियाँ एवं उनका प्रयोग, राजेश पब्लिकेशन, नई दिल्ली।	
5	आहूजारा. (2015): सामाजिक अनुसंधान, रावत पब्लिकेशन, जयपुर।	
6	कोठारीसी. आर. (2023): शोध पद्धति, New Age International Publishers, New Delhi.	
7	आहूजाआर. (2008): सामाजिक अनुसंधान, रावत प्रकाशन, जयपुर।	
8	शुक्लार. (2022): शोध पद्धति शास्त्र विधियाँ व तकनीक, महावीर प्रकाशन।	
9	Creswell J. W. and Creswell J. D. (2022): Research Design: Qualitative, Quantitative, and Mixed Methods Approaches, Sage Publication.	
10	Mishra H. N. and Singh V. P. (2017): Research Methodology in Geography, Rawat Publication.	
11	Kothari C. R. and Garg G. (2023): Research Methodology, New Age International Publishers, New Delhi.	
12	Ahuja R. (2001): Research Methods, RawatPubns, Jaipur.	
13	Kumar R. (2019): Research Methodology a step- by-step guide for beginners, SAGE Publications Ltd.	

Learning Objectives

- This course covers various dimensions of Human Geography and its relevance. This paper is necessary to develop human orientation as core of the discipline of geography covering changing man-environment relationship, human races, population dynamics, human activities etc.

Learning Outcomes

- Introduction to branches of human geography, different concepts of man-environment relationship, different races and tribes of the world and interpretation of the world population dynamics.
- Develop competencies to visualize various patterns of urbanization and migration and aspects of human settlement and to learn about the population resource relationship, concept of development and population problems.
- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:	Human Geography	Course Code: 24MGS9202T
Total hour 60		
Unit I	Definition, Nature and Scope of Human Geography, Human Geography and its Relation with other Scientific Disciplines. Paradigms of Man-Environment	15

	Relationship; Determinism, Possibilism and Neo-determinism, Fundamental Principles of Human Geography; Principle of Activity, Principle of Areal Differentiation, Principal of Terrestrial Unity. Human vs. Physical Geography Dualism.	
Unit II	Human Races; Types and Distribution (Classification of G. Taylor), Study of Socio-economic Life of Tribes; Eskimo, Bushmen, Pygmies, Santhal, Nagas and Bhil, Religion and Language. World Population; Growth, Density and Distribution, Concept of Optimum Population. Population Resource Relationship.	15
Unit III	Human Settlements; Site and Situation. Types and Morphology of Rural Settlements. Environmental Issues in Rural Settlements. Classification and Morphology of Urban Settlements. Hierarchy of Urban Settlement. Concepts of Primate City and Rank Size Rule. Functional Classification of Towns. Satellite Towns. Smart Cities. Trends and Patterns Urbanisation in the World. Problems of Urbanization.	15
Unit IV	Migration; Definition, Causes, Types and Consequences, Migration Theories. World Migration Patterns, Remittances, Brain Drain and Brain Gain. Concept of Human Development, Population Dividend and Problems. World Population Policies.	15
Reference Books:		
1	कौशिकएस. डी. (2017): मानव भूगोल, रस्तोगी प्रकाशन, मेरठ।	
2	हुसैनमाजिद (2012): मानव भूगोल, रावत प्रकाशन, जयपुर।	
3	भल्लाएल. आर. (2017): मानव भूगोल, कुलदीप पब्लिकेशन, जयपुर।	
4	मौर्यएस. डी. (2022): मानव भूगोल, शारदा पुस्तक भवन, इलाहाबाद।	
5	अग्रवालएल. सी. (2023): मानव भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।	
6	Johnston, R.J. (2000). Dictionary of Human Geography. New York: Oxford.	
7	Chandna, R.C. (2010): Population Geography, Kalyani Publisher, New Delhi.	
8	Leong G. C. and Morgan G. C. (2017): Human and Economic Geography, Masood Books, UP.	
9	Singh, L.R. (2005): Fundamentals of Human Geography. Sharda Pustak Bhawan, Allahabad	
10	Singh S. and Saroha J. (2021): Human and Economic Geography, Pearson Education.	
11	Husain M. (2018): Human Geography, Rawat Publication.	
12	Singh S. and Saroha J. (2021): Human and Economic Geography, Pearson.	
13	Jones A. (2012): Human Geography: The Basics Hardcover, Routledge.	
14	Rubenstein J. (2018): Contemporary Human Geography, Pearson.	

Learning Objectives

- To introduce with the concepts of population geography and demography.
- To develop an understanding of the importance and use of demographic data and to develop understanding of spatio-temporal dynamics of population.

Learning Outcomes

- This paper will develop understanding on population geography along with basic concepts of demography.
- The students will be able to understand the world population trends and theoretical aspects.
- Familiarize with the global mandate of addressing population problems through SDGs.
- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:	Population Geography	Course Code: 24MGS9203T	Hours
Total Lecture hour	60		

Unit I	Meaning, Scope and Development of Population Geography. Sources of Population Data: Census, Sample Surveys and Vital Statistics. Determinants of Population Distribution. Population Growth and Density. Pattern of World Distribution. Population Distribution in India.	15
Unit II	Demographic Transition Theory. Concepts of Optimum, Over and Under Population. Population Theories / models (Malthus, Marx, Sadler and Ricardo). Population Potential. Population Components. Mortality, Fertility and Migration Analysis: Types of Measurement, Patterns and its Determinants.	15
Unit III	Population Characteristics: Age Structure, Sex Composition, Rural-Urban, Work Force Participation and Dependency Ratio, Occupational Structure, Educational Status and Religion. Population Composition of India: Components and Characteristics. Population Problems in India.	15
Unit IV	Population and Development Interplay. Population-Resource Regions of the World. Population and Environment. Population Policies in Developed and Less Developed Countries. Population Policy of India. Contemporary Issues: Population Ageing, Declining Sex Ratio, Human Development Concept and Indexes, Sustainable Development Goals (SDGs) 2030.	15
Reference Books:		
1	चौदना आर. सी. (2021): जनसंख्या भूगोल, कल्याणी प्रकाशन, नई दिल्ली।	
2	मौर्य एस. डी. (2021): जनसंख्या भूगोल, शारदा पुस्तक भवन, इलाहाबाद।	
3	बंसल सु. च. (2015): जनसंख्या भूगोल, आर के बुक्स, दिल्ली।	
4	Bhende A. A. and Kanitkar T. (1978): PRINCIPLES OF POPULATION STUDIES, Himalaya Pub. House, Bombay.	
5	Singh Y. I. (2023): Population And Settlement Geography, GNP.	
6	Barcus H. R. and Halfacree K. (2018): An Introduction to Population Geographies Lives Across Space, Routledge.	
7	Newbold K. B. (2021): POPULATION GEOGRAPHY : TOOLS AND ISSUES, Rowman & Littlefield Publishers.	
8	Dutt N. (2021): Demography and Population Geography, Academic Aspirations Publishers.	
9	Kayastha S. L. (1998): Geography of Population, Rawat Publication, Jaipur.	
10	Majumdar P. K. (2010): Fundamentals of Demography, Rawat Publication Jaipur.	
11	Nag P. and Debnath G. C. (2021): POPULATION GEOGRAPHY, Garuda Prakashan.	
12	Husain Majid (2009): Population Geography, Anmol Publications, New Delhi.	
13	Chandna, R.C. (2010): Population Geography, Kalyani Publisher, New Delhi.	
14	Mauya S. D. (2018): Population Geography, Pravalika Publications, Allahabad.	

Learning Objectives

- This is a basic course for developing research aptitude among the students. This paper includes basics of data handling, data analysis and effective representation of analysis.
- To equip students with scientific skills of statistical diagrams and statistical techniques.

Learning Outcomes

- Introduces the basic concepts of data collection and effective data representation.
- Develop understanding on various types of one, two and three dimensional diagrams for data representation.
- Elaborates on various specific diagrams, graphs and cartograms for the representation of data and development command on various statistical techniques such as central tendencies, measures of dispersion and association.

- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:	Practical	Course Code: 24MGS9201P
Unit I	Types of Data and Methods of Data Collection. Scales of Measurement and Data Organisation. Use of Diagrams and Graphs for Data Representation. General Rules for Constructing Diagrams & Graphs. Types of Diagrams; One Dimensional Diagram: Line, Bar and Pyramid Diagram.	
Unit II	Two Dimensional Diagram; Unit Square, Block-pile Diagram, Rectangular, Circle (Wheel and Ring) Diagrams. Three Dimensional Diagrams; Spherical, Cube and Block-Pile Diagram. Ternary/Triangular Diagram, Scatter Diagram. Cartogram; Isochrones & Traffic Flow Cartogram. Graphs: Simple Linear, Poly Linear and Band Graph. Data tabulation, Frequency Distribution, Frequency Polygon, Histogram, Ogive.	
Unit III	Measures of Central Tendency; Mean, Mode and Median. Measures of Dispersion and Concentration; Range, Quartile Deviation, Mean Deviation, Variance and Standard Deviation. Lorenz Curve and Gini's Coefficient. Methods of Measuring Association, Simple and Multiple Correlation and Regression.	
Unit IV	Selection of Class Intervals for Mapping. Measurement of Spatial Patterns of Distribution; Nearest Neighbour Analysis (NNA). Scaling Techniques. Rank Score and Weighted Score. Simulation Model, Gravity Model.	
Reference Books:		
1	शर्माजे. पी.(2023): प्रायोगिक भूगोल, रस्तोगी पब्लिकेशन, मेरठ।	
2	खुल्लर, डी. आर. (2022): प्रयोगात्मक भूगोल, कल्याणी प्रकाशन, नई दिल्ली।	
3	भट्टाचार्य. आर. (2017): प्रायोगिक भूगोल के मूलतत्त्व, सलोनी ऑफसेट, जयपुर।	
4	शर्मा पी.एम.(2009): भूगोल में सांख्यिकीय विधियाँ, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।	
5	Singh, L.R. (2010): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.	
6	Mishra, R. N. and Sharma, P. K. (2022): Practical Geography, Pareek Publication.	
7	Singh, R.L. and Singh Rana P.B.(1991): Elements of Practical Geography. Kalyani Publishers, New Delhi.	
8	Mahmood Aslam (2020): Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi.	
9	Sarkar A. (2015): Practical geography, A systematic approach, Orient Black Swan Private Ltd. New Delhi.	

Learning Objectives

- To develop geographical understanding of process of urbanization, urban spaces and Urban Hierarchy.
- To develop understanding of applied orientation for solving real world problems associated with urban growth and environment.

Learning Outcomes

- Develop understanding about historical process of urban growth, development and spatial patterns of distribution of urban centers.
- Develop scientific orientation about concepts and theories related to urban development, settlement hierarchy and morphological characteristics.
- Enhance knowledge about problems of urban areas and policy interventions.
- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:	Urban Geography	Course Code: 24MGS9204T
Total hour 60		
Unit I	Nature, Scope and Development of Urban Geography. Origin and Growth of Urban Centers; Ancient, Medieval and Modern Periods. Ecological Processes of Urban	15

Unit II	Growth. Spatial Pattern and Distribution of Urban Centres. Process of Urbanization: Trends of Urbanization in the World. Development of Conurbation and Megalopolises: North Eastern USA, Rhine-Ruhr Region, Mumbai and Kolkata Region. Urbanization in India. Development of Metropolitan Cities in India.	
Unit III	Central Business District (CBD): Criteria and Historical Process. Zone of Transition: Concept and Characteristics. Urban Land Use; Models of Burgess, Harris-Ullman, P. Mann and H. Hoyt. Morphological and Functional Classification of Urban Centers; Works of Mumford, Henri Pirenne, Gordon Child and G. Taylor. Centripetal and Centrifugal Forces of Urban Growth.	15
Unit IV	Settlement Systems; Rank-Size Rule, Primate City and Index of Primacy. Rural-Urban Fringe. City-Region. Concept of Urban Hierarchy; Development of Concept of Central Place, Christaller's Central Place Theory and August Losch's Theory of Market Centres. Concept of Smart City, Mega City, Edge City and Global City. Morphology of Indian Cities; Ancient, Medieval and Modern Planned Cities of India (Case Studies of Jaipur and Chandigarh Cities). Social Structure in Urban Areas and Social Segregation in Indian Cities. Urban Environment; Urban heat island effect, solid waste management in urban areas, urban floods. Urban Policies: Smart City Mission, National Urban Policy Framework. SDG Framework for Urban Area Development (Special Reference to Goal 11).	15
Reference Books:		
1	सिंह आर. एन. और मौर्य एस. डी. (2022): नगरीय भूगोल, शारदा पुस्तक भवन, प्रयागराज।	
2	मण्डल आर. बी. : नगरीय भूगोल की रूपरेखा, कन्सेप्ट पब्लिशिंग कंपनी।	
3	बंसल सु. च. (2023): नगरीय भूगोल, मीनाक्षी पब्लिकेशन, मेरठ।	
4	जोशी आर. (2020): नगरीय भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।	
5	Maurya S. D. (2022): URBAN GEOGRAPHY, ShardaPustakbhawan, Allahabad.	
6	Verma L. N. (2007): Urban Geography, RawatPublication, Jaipur.	
7	Singh S. and Saroha J. (2021): URBAN GEOGRAPHY, Pearson.	
8	Holloway S. R. and Kaplan D. H. (2024): URBAN GEOGRAPHY, WILEY Blackwell.	
9	Ramchandran R. (1997): URBANIZATION AND URBAN SYSTEMS IN INDIA, OUP India.	
10	Holloway S. and Kaplan D. H. : Urban Geography, Wiley India Pvt. Ltd.	
11	Short J. R. (2018): AN INTRODUCTION TO URBAN GEOGRAPHY, Rawat Publication.	
12	Hall T. and Barrett H.: Urban Geography, Routledge.	

Learning Objectives

- To enhance the understanding of development of social and cultural geography, various social and cultural concepts and theories.
- To provide a critical understanding of the contemporary issues and the politics in the fields of social and cultural geography.

Learning Outcomes

- Develop understanding about core concepts, elements and theoretical developments in social and cultural geography.
- Understanding about geographical epistemologies for analyzing social structure, processes, culture change and continuum.
- Developmen to analytical capability to study contemporary issues relating to social and cultural geography.
- Basics contents for various competitive examinations conducted by state and union public service commissions, UGC NET-JRF and so on.

Course Title:		Social & Cultural Geography	Course Code: 24MGS9205T
Total Lecture hour 60			Hours
Unit I	Nature, Scope and Development of Social Geography. Social Interaction and Relations. Social Groups; Formation, Characteristic and Types. Community and Society. Concept of Social Space. Social Structure. Social Processes. Geography of Social Problems (Poverty, Crime, Social inequalities). Concept of Social Well-Being.		15
Unit II	Elements of Social Geography; Race (Development of Concept, Racial Characteristics, Classification of Races and Zone and Strata Theory), Ethnicity, Tribe (Definition, Characteristics, Theories of Tribal Groups and Case Studies of Pigmy, Kyrghizs, Bushman, Eskimo, Naga, Gond and Bhil), Dialect, Language, Caste and Religion.		15
Unit III	Nature and Scope of Cultural Geography, Creation of Cultural Spaces. School of Cultural Determinism. Cultural Adaptation, Assimilation, Integration, Diffusion and Cultural Diversity. Culture and Environment; Economy and Cultural Landscapes. Industrial Revolution and Cultural Development. Globalization and Culture Conflicts. Cultural Heritage.		15
Unit IV	Concept of Culture Areas; Cultural Hearths, Realms and Cultural Regions. Cultural Complexes. Cultural Regions of the World and Indian Sub-continent. Sanskritization and Cultural Urbanization. Cosmopolitization. Problems Arising due to Cultural Diffusion, Racism and Terrorism.		15
Reference Books:			
1	रिजवी एम. और जोशी आर. (2016): सांस्कृतिक भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।		
2	प्रसादगा. (2022): सांस्कृतिक भूगोल, शारदा पुस्तक भवन, इलाहाबाद।		
3	मौर्यएस. डी. और शालिनी (2023): सांस्कृतिक भूगोल, शारदा पुस्तक भवन, प्रयागराज।		
4	मौर्यएस. डी. (2023): सामाजिक भूगोल, शारदा पुस्तक भवन, प्रयागराज।		
5	सिंहबी. एन. : सामाजिक एवं सांस्कृतिक भूगोल, प्रवल्का पब्लिकेशन्स, प्रयागराज।		
6	सिंहज. (2015): सामाजिक एवं सांस्कृतिक भूगोल, हिन्दी बुक सेंटर दिल्ली।		
7	Maurya S. D. (2023): CULTURAL GEOGRAPHY, Sharda Pustakbhawan, Allahabad.		
8	Devi R. (2020): Cultural Geography, Book Enclave, Jaipur.		
9	Chaudhuri S. (2023): SOCIAL and CULTURAL GEOGRAPHY, PHI Learning Pvt. Ltd. Delhi.		
10	Sen J. (2008): Social and Cultural Geography, Kalyani Publishers, Delhi.		
11	Duncan J. (2003): A Companion to Cultural Geography, Wiley-Blackwell.		
12	Ahmed A. (2021): Social Geography Of India, Concept Publishing Company.		
13	Anderson J. (2021): UNDERSTANDING CULTURAL GEOGRAPHY : PLACES AND TRACES, Routledge.		
14	Ahmad A. (2002): SOCIAL GEOGRAPHY, Rawat Books.		

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