



# Eklavya University

## Master of Arts (Geography)

Curriculum

*(2020-2021 admitted students)*

 Ashish

 Anurag

 Anshu

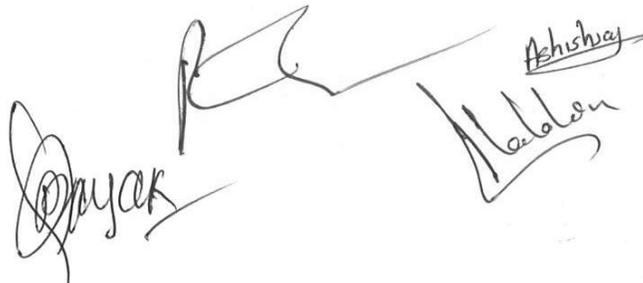
## DEPARTMENT OF GEOGRAPHY

### VISION STATEMENT OF EKLAVYA UNIVERSITY

Eklavya University, will transform lives and communities through learning.

### MISSION STATEMENT OF EKLAVYA UNIVERSITY

- 1 Nurture achievers in life and careers through a value based, industry relevant and future ready education.
- 2 Emphasize research, interdisciplinary learning, and practical hands on education.
- 3 Equip every student with the required social and technical skills to achieve employment generation.
- 4 Provide a holistic education deeply rooted in the ways of the traditional Gurukul system.
- 5 Bring quality education within the reach of every individual, by committing to the achievement and maintenance of excellence in education, research and innovation.
- 6 Create and disseminate knowledge through research and creative inquiry.
- 7 Serve students by teaching them problem solving, leadership and teamwork skills, lateral thinking, commitment to quality and ethical behaviour.
- 8 Create a diverse community, open to the exchange of ideas, where discovery, creativity, and personal and professional development is encouraged and can flourish.
- 9 Contribute to the social fabric and economic health of the Bundelkhand region, the state and the country at large, by enhancing and facilitating economic empowerment, providing equal opportunities and employment generation



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- To provide students with knowledge about the world's peoples, nations, cultural environments and spatial organization.
- To provide students with a good grounding in the modern technical skills of the discipline, including computer cartography, spatial analysis, spatially oriented quantitative methods and techniques and geographic information systems.

### **PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)**

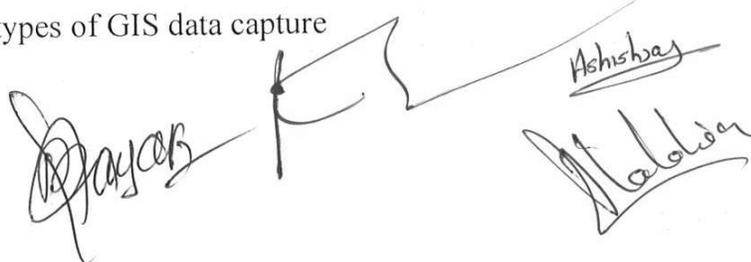
1. Introduction to human geography
2. The importance of "thinking geographically"
3. Themes and sub disciplines in human geography
4. Key geographical concepts (place, scale, landscape, and mobility)
5. Mapping the world

### **PROGRAMME OUTCOMES (POs)**

1. Describe what geography and human geography are.
2. Understand population dynamics and migration.
3. Understand political systems, states, territory, and borders.
4. Understand the basic elements of culture.
5. Understand the types and levels of economic activities.
6. Understand urban structure and development.

### **PROGRAMME SPECIFIC OUTCOMES (PSOs)**

1. Define geography and GIS
2. Describe scale, projection, and coordinate systems and explain importance of each in GIS
3. Differentiate between vector, raster, and object-oriented data structures and explain the appropriate use of each of these data structures
4. Describe various types of GIS data capture



5. Explain the basics of GIS data storage,
6. Differentiate between attribute analysis and spatial analysis and describe the appropriate use of each type of analysis,
7. Produce effective maps of analytical results which adhere to established cartographic standards
8. Demonstrate proficiency with GIS software

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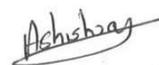
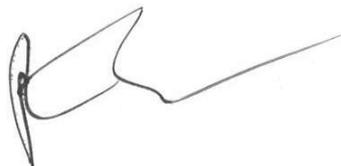

## VISION STATEMENT OF DEPARTMENT OF GEOGRAPHY

The Department of Geography's mission is to provide its students with educational experiences of the highest quality and to conduct vital research that produces valuable publications. The department is committed to outstanding teaching and scholarly activities within the framework of academic freedom and diversity of ideas. The Department of Geography is dedicated to the advancement of knowledge and to serve our communities, from local to global.

## MISSION STATEMENT OF DEPARTMENT OF GEOGRAPHY

To lead the development of academic, educational, and research directions of human and natural systems, Urban and Rural Problems and geospatial information science, harnessing the integrative nature of geographic science to answer fundamental questions of global importance Short term goal

- To promote the study and research activities in different branches for the subject.
- To bring Geographical awareness among the people to solve day to day environmental problems.
- To educate the masses for proper use. Re use of Natural and Human resources.
- To contribute in the efforts to make the environment clean. Greener and Better place to live in.
- To join all disciplines in the academic domain on the issues of development in the social, ecological and economic aspect.
- To provide students with knowledge about the earth's natural environment and its relationship to society.



## Master of Arts, Geography

### CREDIT STRUCTURE

#### Category-wise Credit Distribution

Courses	Credits
Programme Core courses	36
Programme Electives	12
Summer internship	20
Project	12
<b>Total</b>	<b>80</b>





Course Code	Geomorphology	L	T	P	C
MGEOG20Y101		6	0	0	6
Pre-Requisites	Nil	<b>Syllabus Version</b>			
		<b>100 Marks</b>			
<b>Course Objective</b>					
After the completion of the course, Students will be able to					
<ol style="list-style-type: none"> <li>1. Understand the physical basis of the natural greenhouse effect, including the meaning of the term radioactive forcing.</li> <li>2. Know something of the way various human activities are increasing emissions of the natural greenhouse gases, and are also contributing to sulphate aerosols in the troposphere.</li> <li>3. Demonstrate an awareness of the difficulties involved in the detection of any unusual global warming „signal“ above the „background noise“ of natural variability in the Earth's climate and of attributing (in whole or in part) any such signal to human activity.</li> <li>4. Understand that although a growing scientific consensus has become established through the IPCC, the complexities and uncertainties of the science provide opportunity for climate sceptics to challenge the Panel's findings.</li> </ol>					
<b>Course Outcome</b>					
<ol style="list-style-type: none"> <li>1. Develop an idea about geomorphology and different types of fundamental concepts.</li> <li>2. Explain different types of geomorphic processes like weathering and mass wasting and cycle of erosion.</li> <li>3. Understand the processes of erosion, deposition and resulting landforms.</li> <li>4. Acquire knowledge about slope forms and processes.</li> </ol>					
<b>Student Learning outcome</b>					
After the completion of the course, Students will be able to					
<ol style="list-style-type: none"> <li>1. Describing human-environment, and nature-society interactions as well as global human and environmental issues.</li> <li>2. Identifying and explaining the planet's human and physical characteristics and processes, from global to local scales.</li> <li>3. Evaluating the impacts of human activities on natural environments.</li> <li>4. Applying knowledge of global issues to local circumstances to evaluate the local effects of the issues.</li> <li>5. Showing an awareness and responsibility for the environment.</li> </ol>					
<b>UNIT-I</b>					<b>18</b>
Introduction to Geomorphology- Definition, Meaning, Nature and Scope. History of development of Geomorphology, Recent trend. Indian contribution to Geomorphology.					
<b>UNIT - II</b>					<b>18</b>
Method of study of landforms, Fundamental concepts- Geological structure and landforms- Evolution of landforms. Cycle of erosion- concepts of Davis & Penck.					
<b>UNIT - III</b>					<b>18</b>
Environmental change- Climatic change and Geochronological methods, Morphogenetic Region.					
<b>UNIT-IV</b>					<b>18</b>
Earth Movements- Epeirogenic, Orogenic and Cymatogenetic, Isostasy. Continental Drift Theory- Concept of Wegner.					

**REFERANCE BOOK**

- 1 कौशिक, एस.डी.: भू – आकृति विज्ञान
- 2 नेगी बी.एस.: भू – आकृति विज्ञान
- 3 दयाल परमेश्वर : भू- आकृति विज्ञान
- 4 यादव तथा रामसुरेश : भू आकृति विज्ञान,ग्रन्थय, कानपुर
- 5 सिंह, सविन्द्र के .: भू- आकृति विज्ञान ,शारदा पुस्तक भवन , इलाहाबाद
- 6 Ahmed , E.: Coastal Geomorphology of India.
- 7 Chorley ,R.J.: Spatial Analysis in Geomorphology ,Metghuem, London, 1972



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<b>Course Code</b>	<b>CLIMATOLOGY AND OCEANOGRAPHY</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>MGEOG20Y102</b>		<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>
<b>Pre-Requisites</b>	<b>Nil</b>	<b>Syllabus Version</b>			
		<b>100 Marks</b>			

**Course Objective**

1. The broad objective of the course is to introduce to the students the fundamentals of atmospheric phenomena, global climate systems and climate change.
2. The atmosphere and climate are a critical part of the earth system, and climatic variability and change are central to the issue of current and future global environmental change.
3. To grasp the techniques for modelling the climate, covering both theoretical and technical aspects.
4. To understand the dynamics of the atmosphere, the ocean and the overall climatologically system.
5. To be able to analyse and interpret climatic data.

**Course Outcome**

- 1 - Understanding the dynamics of the Earth's atmosphere and global climate
- 2 - Explaining approaches to climate classification.
- 3 - Assessing the role of man in global climate change

**Student Learning Outcomes (SLO)**

1. Know something of the way various human activities are increasing emissions of the natural greenhouse gases, and are also contributing to sulphate aerosols in the troposphere.
2. Demonstrate an awareness of the difficulties involved in the detection of any unusual global warming „signal" above the „background noise" of natural variability in the Earth's climate and of attributing (in whole or in part) any such signal to human activity.
3. Understand that although a growing scientific consensus has become established through the IPCC, the complexities and uncertainties of the science provide opportunity for climate sceptics to challenge the Panel's findings.
4. On successful completion of this course, students should be able to understand the mean global atmospheric circulations and disturbances, world climate systems, climatic variability and change.

**UNIT - I**

**18**

Nature and Scope of climatology and its relationship with meteorology composition of the atmosphere : insolation heat balance of the earth stability and instability green house effect vertical and horizontal distribution of temperature

**UNIT-II**

**18**

Jet stream General circulation in the atmosphere Acid rain concept of air masses and atmospheric disturbances. Ocean atmospheric interaction EL Nino and La Nino Monsoon Winds and cyclones.

**UNIT-III**

**18**

The Application of General Principles of Elementary physical and Synoptic meteorology to the study and classification of climate. Climatic classification of Koppen and Thornthwaite Major climates of the world tropical temperate , desert and mountain climate ,Climatic changes during geological and historical times evidences possible causes.global warming environmental impacts and society's response ,Applied climatology.

**UNIT - IV**

**18**

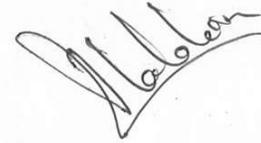
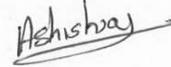
Nature and Scope of oceanography Distribution of land and water Major Features of ocean basins Marine sediments physical and chemical properties of sea water interlink between atmospheric circulation and circulation pattern in the oceans surface currents thermohaline waves and tides.

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Marine biological environment : Bio geochemica cycle in the ocean biozones types of organisms plankton, nekton and benthos food and mineral resources of the sea Major marine environments coastal estuary deltas baries island rochy coasts open reefs continental shelf continental slope and deep Pelagic Environment and floor of the ocean basins ,Impact of Humans on the marine environment Law of the sea.exclusive economic zone Marine desopits and formation of coral -reets.

**REFERANCE BOOK**

- 1 तिवारी , अनिल कुमार: जलवायु विज्ञान, राजस्थान हिन्दी ग्रंथ अकादमी
- 2 नेगी, बी.एस. : जलवायु तथा समुद्र विज्ञान
- 3 Barry, R.G.and Chorley P.J.: Atmosphere ,Weather and Climate, Roulledge, London and New York,1998
- 4 Critchfiedld ,J.H.: General Climatology ,Prentico Hall , India New Delhi,1993



Course Code	Geographical Thought	L	T	P	C
MGEOG20Y103	भौगोलिक विचार	6	0	0	6
Pre- Requisites	Nil	Syllabus Version			
		100 Marks			
<b>Course Objective</b>					
<p>1. Main objectives of this course are to acquaint the students with the philosophy.</p> <p>2. Also teach the Methodology and historical development of geography as a professional field.</p> <p>3. The idea is to address the spirit and purpose of the changing geographies and to what we as geographers contribute towards knowledge production.</p> <p>4. The course aims at developing critical thinking and analytical approaches</p> <p>5. Students will acquire an understanding of and appreciation for the relationship between geography and culture.</p>					
<b>Course Outcome</b>					
<p>At the completion of the course the students of Physical Geography will be able to:</p> <p>1. Understand the distinctiveness of geography as a field of learning in social as well as natural science.</p> <p>2. Trace the history and development of geographical thought from the ancient period to the present era.</p> <p>3. Acquaint themselves with the underlying philosophy and methodology of the subject.</p> <p>4. Demonstrate how the changes in relationship between man and his environment are reflected in the development of new thought.</p> <p>5. Evaluate how relevant geographical studies are for the human society.</p>					
<b>Students Learning Outcomes</b>					
<p>After the completion of the course, Students will be able to</p> <p>1. This should enable the student to critically look at the contents of other courses at Postgraduate level as logically integrated with the broad currents of thought the subject has witnessed in the distant and recent past.</p> <p>2. Students will demonstrate an advanced understanding of the historical development of geographical thought.</p> <p>3. They can understand the major current philosophical and theoretical debates in geography.</p> <p>4. Students will demonstrate an understanding of current research within the breadth of geography, as well as more in depth knowledge of research in their specialty areas.</p> <p>5. Students will develop a solid understanding of the concepts of "space," "place" and "region" and their importance in explaining world affairs..</p>					
<b>Unit-I</b>				<b>18</b>	
The field of Geography its place in the classification of science .Geography as a social science and natural science Definition , Scope and functions of geography Geography as science of relationship as science of areal differentiation as spatial science					
<b>Unit-II</b>				<b>18</b>	
Geography and environmentalism Forms of man -nature relationship and current view Dualism in geography Regional Concept.Selected Concepts in the Philosophy of Geography, Distribution, relationship intersections, areal differentiation and spatial organisations.					

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*Ashish Jaiswal*

*Shalini*

<b>Unit-III</b>	<b>18</b>
The growth of geographical Knowledge from earliest times upto the 15th century contributions of Greek and Roman thinkers Arab Geographers and their contibutions.Geographical information in Ancient Indian literatureThe dark age in Geography .The Great Age of Maritime Discovery and Exploration. Controbutions of Various Schools of thought in Modern Geography (i) German School (ii) French School (iii) British School (iv ) American and Russion Schools.	
<b>Unit-IV</b>	<b>18</b>
Scientific Explanations routes to scientific explanation (Inductive/ deductive ) Types of explanation cognitive description cause and effect temporal functional ecological systems Laws theories and models in geography Quantitative revolution and philosophy of positivism.	
<b>Unit-V</b>	<b>18</b>
Responses to postivism behaviouralsm and humanistic geography relevance movement and redical geography Changing paradigms Status of Indian Geography Future of Geography .	

### REFERANCE BOOK

- 1 सिंह उजागिर : भौगोलिक चिन्तन का विकास
- 2 त्रिपाठी एवं बिरले : भौगोलिक चिन्तन का विकास एवं विधितंत्र
- 3 कौशिक , एस.डी.: भौगोलिक विचारधाराओं का इतिहास एवं विधितंत्र
- 4 **Ali, S.M.: Arab Geography**
- 5 **Taylor,G.: Geography In the 20th Century.**

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Course Code	ADVANCED GEOGRAPHY OF INDIA (Elective)	L	T	P	C
MGEOG20Y104	भारत मे उन्नत भूगोल	6	0	0	6
Pre-Requictives	Null	Syllabus Version			
		100 Marks			
<b>Course Objective</b>					
<p>1. Students will get an introduction to the main regions of the India in terms of both their uniqueness and similarities.</p> <p>2. Students will be exposed to historical, economic, cultural, social and physical characteristics of India.</p> <p>3. Students will learn the relationships between the global, the regional and the local, particularly how places are inserted in regional and global processes.</p> <p>4. In addition to the ability of understanding and reading maps, students will develop cartography skills and will be able to create maps on their own.</p> <p>5. Students will be introduced to demographic, social and cultural attributes such as migration, social relations and cultural identity.</p>					
<b>course outcomes</b>					
<p>: This is a course for studying various methods for conducting social science research. It deals with various approaches, methods, tools and techniques. Further, it deals with basic knowledge on computer, data, and estimation of statistical tools by using software and analyzing the results of economic relationships, testing economic hypotheses and forecasting.</p> <p>By the end of the course, the student should be able:</p> <ul style="list-style-type: none"> <li>• To become familiar with basic knowledge research methodology and sampling techniques.</li> <li>• To become familiar with basic knowledge on computer, with statistical software, to draw distributive tables, graphs, trend lines.</li> <li>• To estimate the parameters of multiple regressions with the help of software and interpret</li> </ul>					
<b>Students Learning Outcomes</b>					
After the completion of the course, Students will be able to					
<ol style="list-style-type: none"> <li>1. Identifying and explaining the Indian Geographical Environment, from global to local scales.</li> <li>2. Applying geographical knowledge to everyday living.</li> <li>3. Applying knowledge of global issues to a unique scientific problem.</li> <li>4. Showing an awareness and responsibility for the environment and India.</li> <li>5. Evaluating the impacts of human activities on natural environments special reference to India</li> </ol>					
<b>UNIT - I</b>					<b>18</b>
Physical and Biological etements in the Geography of India, Geological Structure, relief, climate, water, resources, vegetation and soils.					
<b>UNIT - II</b>					<b>18</b>
Population distribution,density and growth problems and policies.Population Compositions; Age and Sex Composition, Literacy and Education, Occupational Structure, Urbanization.					
<b>UNIT - III</b>					<b>18</b>
<p>(a) Economy; An over view of Indian economy and impact of globalization on it. Culativated lands- land use patterns, major crops and problems of agriculture</p> <p>(b) Irrigation</p> <p>(c ) Agriculture Major characteristics and problems impact of infrastructural and institutional factors on agriculture Important crops ,Agriculture reigons Green revolution Agro- Climatic regions.</p> <p>(d) Sources if power Coal Petroleum Natural gas Hydroelectricity and Atomic energy</p>					

<b>UNIT - IV</b>	<b>18</b>
(a) Mineral Resources with Specific reference of iron ore. Mananese and bauxite. (b) Industrial development with specific reference to icon and steel cement .cotton jute sugar and paper industries industrial regions (c ) Transport Infrastructure; Road rail water and Air. (d ) Trade Internal and Foreign	
<b>UNIT - V</b>	<b>18</b>
(a) Ragional division of India Purpose and Methodology. (b) Major schemes of regions of India: O.H.K. spate and R.L. singh (C) Detailed regional study of the following kashmir valley Middle Ganga Plain Narmada Basin Marusthali and Kerala (d ) Physical and Cultur geography of chhattiasgarh State.	

### REFERANCE BOOK

- 1 अग्रवाल पी.सी.: भारत का भौतिक भूगोल, एशिया प्रकाशन कं. रायपुर 2003.
- 2 जोशी, यशवन्त गोविंद : नर्मदा बेसिन का कृषि भूगोल
- 3 देशबंधु प्रकाशन: संदर्भ छत्तीसगढ
- 4 Spale OHK & ATA Learmont - India & Pakistan Methuen, London. 1967.
- 5 Tirtha R. & Gopal Krishna, Emerging india Reprinted by Rawat Publications, Jaipur 1996.

Course Code	Population Geography (Elective)	L	P	T	C
MGEOG20Y105	जनसंख्या भूगोल	6	0	0	6
Pre-Requictives	Nil	Syllabus Version			
		100 Marks			
<b>Course Objective</b>					
<ol style="list-style-type: none"> <li>1. This course introduces the spatial distribution of population with causative factor.</li> <li>2. It also deals with various theories and concepts related with population</li> <li>3. Study of population is an essential component in planning of various human related issues.</li> <li>4. It also helpful in knowing various kinds of demographic problems,</li> <li>5. Population Geography also deals in population policies in developed &amp; developing countries</li> </ol>					
<b>Course outcome</b>					
<ol style="list-style-type: none"> <li>1. Understand the basic geographical personality variability of physio-graphy, climate in India.</li> <li>2. Acquire knowledge agriculture, region, industry, transport and trade of India.</li> <li>3. Impatance the value of Regional and Regionalization of Indian geographers.</li> </ol>					
<b>Student Learning Outcomes</b>					
<p>After the completion of the course, Students will be able to</p> <ol style="list-style-type: none"> <li>1. Understand the distribution of population.</li> <li>2. Population distribution and its problems.</li> <li>3. Population dynamics</li> <li>4. Understand population policies &amp; its importance.</li> <li>5. Students aware about the population policies.</li> </ol>					
<b>UNIT - I</b>					<b>18</b>
<p>Definition and Scope of Population Geography Relation of Population Geography with other Subjects of Social Sciences Historical development of population geography in western countries and in india sources of population data census and its history</p>					
<b>UNIT - II</b>					<b>18</b>
<p>Distribution of Population The concept of population density and its types Factors affecting population distribution Distribution of population in the world with special refernce to Europe and Asia Distribution of population in India.</p> <p>Growth of population Measure of devennial and Annual rates if Population growth prehistoric and Modern trends if population growth in the world Regional aspect of population growth in India.</p> <p>Population theories Demograophic transition Future growth of population</p>					

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<b>UNIT - III</b>	<b>18</b>
<p>Growth of population Measure of devennial and Annual rates if Population growth prehistoric and Modern trends if population growth in the world Regional aspect of population growth in India. Population theories Demograophic transition Future growth of population</p>	
<b>UNIT - IV</b>	<b>18</b>
<p>Population composition in termds of age and sex rural -urban residence qducational status and occupational structure significance of these elements in population analysis factors affecting their composition in population broad world patterns and detsiled spatial patterns in India , Fertility and Mortality of population : Significance and Factor Indices and rates World Pattern and pattern In India,</p>	
<b>UNIT - V</b>	<b>18</b>
<p>Mogration of population Causes characteristics and types Methods of estimating value of internal Migration Important international migrations of the world internal migration in India. Population and Resourcews concept of optimum population over population and under population ,Population- Resource regions Population Regions Concept and methods population regions of India. casuses and consequences of population growth. population policies of India.Human Development Index and its components .</p>	

### REFERANCE BOOK

- 1 पंडा, बी.पी.: जनसंख्या भूगोल
- 2 ओझाए रघुनाथ : जनसंख्या भूगोल
- 3 हीरालाल : जनसंख्या भूगोल
- 4 Census of India, India: A State Profile. 1991.
- 5 Bogua, D.J. Principles in Demography, John Wiley, New York 1969.

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Course Code	Research Methodology / Project Work/Practical	L	T	P	C
MGEOG20Y106	शोध प्रविधि / परियोजना कार्य / प्रायोगिक कार्य	4	0	6	10
Pre-Requictives	Nil	Syllabus Version			
		100 Marks			
<b>Research Methodology</b>					
<b>Course Objectives:</b>					
<p>1. To give researchers a general understanding of the methodsology of Geography.</p> <p>2. To Enable the scholars to know the fundamental theory of research.</p> <p>3. To Strengthen the need of Interdisciplinary Research. <span style="float: right;">4. To</span></p> <p>Inclucate the role of Case study analysis in the Methodology of Geography</p> <p>5. To Understand the Value of Field work and the preparation of them maps is Geographical Research.</p>					
<b>Course Outcome:</b>					
<p>1.Explain the basic concept of research .</p> <p>2. Categorize of hypothesis and sampling techniques.</p> <p>3. Distinguish between various data sources . <span style="float: right;">4.</span></p> <p>Formulate clearly and briefly applied research problems.</p> <p>5. Conduct applied research by systematically processing .</p> <p>4. Write the research report in various formats</p>					
<b>Students Learning Outcomes:</b>					
<p>After the Completion of the course, Students will be able to</p> <p>1. Students should be able to distinguish a purpose statement, a reasearch question or hypothesis and research objective.</p> <p>2. Students should be able to Define the meaning of a variable and to be able to identify Independent, dependent and mediating variables,</p> <p>3. Student should be able to distinguish between categorical and continuous measures.</p> <p>4.Student should be able to design a good quantitative purpose statemtnt and good quantitative research questions and hypothesis.</p> <p>5.Student should be familiar with the steps involved in identifying and selecting a good instrument to use in a study.</p>					
<b>Course Objective:</b>					
The objective of incorporating this paper in the syllabus is to hone the critical faculties of students on the core themes of Research Methodology.					
<b>Course Outcomes:</b>					

It will make students able to:

1. Understand and apply research approaches, techniques and strategies in the appropriate manner for managerial decision making
2. Conceptualize the research process
3. Demonstrate knowledge and understanding of data analysis and interpretation in the relation to the research process
4. Develop an understanding of various research designs and techniques
5. Develop an understanding of the ethical dimensions of conduction applied research

**STUDENT LEARNING OUTCOME:**

After studying this paper, students should be able to comprehend and critically analyse major themes and aspects of Contemporary Political Theory.

**UNIT - I**

Concept of Research in social sciences, nature of geographical, research, Reachers approaches in geography - Traditional and behavioural, Experimental research , selection of case studies, observation, Inductive and deductive research , stages of research.

**UNIT - II**

Identification of research problems, Specification and objectives of research , making of hypothesis - types of hypothesis and confidence levels, survey of literature and preparation of bibliography and reference meterials, methods of review of Literature.

**UNIT - III**

Nature of geographical data and information- Spatial and Non-Spatial, Temporal, sources of primary and secondary data, topographical sheets, selection of indicators and variables , Questionnaire, Schedule and interview.

**UNIT - IV**

Rearrangement of cetral tendencies and dispersion, variance, Conrrelation & regression.

**Reference Book**

1. clifford N.cope,M. Gillesple, T. & Frence, S. (Eds.). 2016.Key Methods in Geography sage.
- 2.Gomez, B. & Jones III J.P (Eds.)2010 Research Methods in Geography .  
A critical Introduction (vol 6) John wiley & sons.
- 3.Hegde, D. S. (Ed) 2015 Essays on research methodology . Springer.
4. Kleiner, S. (1993) The logic of discovery a theory of the rotionality of scientific research. Springer Science & Business Media.

**Practical**

**Section -A**

**Graphs and Diagrams :** Traingular graph.Lograithmic and Semi logarithmic graphs scatter graphs : climatograph Proportional circles spheres and cubes.

**Section-B**

**Map Projections:** Mathematical Construcation of World Projections

**Interpretation of Maps:** geological Maps.

**Section-C**

Principles and Methods of topographical surveying involving the use of Theodolite and Dumpy level .Solution of Problems in Surveying.

**SUGGESTED READING :**

1	Davis .RC. & E.S. Forte : Surveying : Theory and Practical
2	Knetkar ,T.R. & S.V. Kulkarni : Surveying and levelling Part I & II A.V.G. Prakashan Poona
3	मॉक हाउस तथा विलकौन्सन (अनु.प्रे.प्रेमचन्द अग्रवाल) मानचित्र तथा आरेख म.प्र.हिन्दी ग्रन्थ अकादमी
4	नेगी .बी.एस. भूगोल में आधार भूत सांख्यिकी
5	हीरालाल: प्रायोगिक भूगोल



Course Code	Subjective Presentation and Comprehensive viva	L	T	P	C
MGEOG20Y107	विषय प्रस्तुति एवं विस्तृत मौखिकी	0	0	6	6
Pre-Requictives	Nil	Syllabus Version			
		100 Marks			

### Course Objective

1. भूगोल की विशेषज्ञता के साथ ज्ञान प्रदान करना।
2. विषय की समग्र और व्यापक जानकारी प्रदान करना।
3. छात्रों में भूगोल के प्रति रूचि जाग्रत करना।
4. भूगोल के अभ्यास के प्रवृत्ति को विकसित करना।
5. भूगोल विषय में कुशलता एवं दक्षता को विकसित करना।
6. भूगोल से संबंधित सैद्धांतिक एवं प्रायोगिक दोषों को दूर करना।
7. भूगोल विषय के शोध कार्य को बढ़ावा देना।

### course outcomes

1. भूगोल की क्षमताओं एवं विशेषताओं का ज्ञान करना।
2. भूगोल की दक्षता और उसकी सूक्ष्मता का ज्ञान प्रदान करना।
3. भूगोल के ज्ञान को विस्तारित एवं प्रसारित करना।
4. भूगोल के शोध कार्य एवं अनुसंधान का ज्ञान प्रदान करना।

### Students Learning Outcomes

1. छात्रों में शोध कौशल का विकास होना।
2. छात्रों में अनुकूलन की सोच विकसित होना।
3. शोध के अभ्यास के लिए नूतन तकनीक, कौशल विधियां एवं प्रयोगों का विकास होना।
4. शोध एवं विषयगत समस्याओं का निदान करने की क्षमता का विकास होना।
5. विषय का विशेषज्ञता के साथ छात्र को दक्ष बनाना।
6. शोध कार्य की समस्याओं का निदान होना।
7. शोध कार्य को गति प्रदान करना।

प्रत्येक विद्यार्थी प्रश्नपत्र संख्या एक से पाँच पढ़े गये विषयों में से किसी एक विषय पर प्रस्तुति और विस्तृत मौखिकी देना होगी।

*Dayak*

*R*

*Ashishay*

*Habib*