

PROGRAMME GUIDE

MASTER OF ARTS (GEOGRAPHY) (M.A. GEOGRAPHY)

***Scheme of Examination (CBCS/ELECTIVE)**

***Detailed Structure of Syllabus**



DR. C.V.RAMAN UNIVERSITY

KARGI ROAD, KOTA, BILASPUR, CHATTISGARH (C.G.)

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INTRODUCTION

M.A.(Geography) is UGC approved 2 year full time post Graduate degree programme of 84 credits divided in 4 semesters. The students pursuing this course would have to develop in understanding of various aspects of the subject. The working principles and experimental skill associated with different field of Geography such as Geomorphology, Climatology, Economic geography, Population geography, Remote Sensing, Biogeography etc. It provide deep understanding between human – environment interrelationship. The department has a well equipped laboratory. The students are trained to use these instruments a part of their curriculum. By this programme student are understanding the current nature of geography and the importance of the subject. It also prepare students personally and professionally for career in public, private and academic sectors. It also provide scope for Geographical research towards basic and current updates.

VISION

- To develop geographical knowledge and awareness about the global requirement issues in the students.
- To expend job opportunities for our students.

MISSION

- To make responsible person for protect and save environments.
- To provide dynamic leadership in the teaching, Research, Consultancy and outreach services in Geography for the benefit of humanity and sustainable development.
- To ensure adequate career preparation for student of Geography by focusing on skill development which will enable them to lead productive lies.

Program outcomes (PO's):

- [PO.1.] **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking & actions.
- [PO.2.] **Effective communication:** Speak, read, write & listen clearly in person and through electronic media in English and in one Indian Language, and make meaning of the world by connecting people, ideas, books, media and technology.
- [PO.3.] **Social interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- [PO.4.] **Effective citizenship:** Demonstrate empathetic social concern and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- [PO.5.] **Ethics:** recognize different value systems including your own, understand the moral dimensions of decisions and accept the responsibility for them.
- [PO.6.] **Environment and sustainability:** Understand the issues of environmental contents and sustainable development.
- [PO.7.] **Self-directed and long-life learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-economic and socio technological changes & develop an aptitude for continuous learning and professional development with ability to engage in chemistry practices and education program.


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- [PO.8.] **Knowledge:** Provide basic knowledge for understanding the principles and their applications in the area of Chemical Sciences, Instrumentation & Chemical Technology.
- [PO.9.] **Technical Skills:** Develop an ability to use various instruments and equipment with an in depth knowledge on standard operating procedures for the same.
- [PO.10.] **Research & Development:** To Demonstrate knowledge of identifying a problem, critical thinking, analysis and provide rational solutions in different disciplines of Chemistry & Chemical Sciences.
- [PO.11.] **Modern Tool Usage:** Develop appropriate technique, resources and IT tools for prediction and modeling to complex chemical issues.
- [PO.12.] **The Society:** Apply regional chemical reasoning informed by the contextual knowledge to comprehend and receive instructions on chemical safety and the consequent responsibilities relevant to the society as well as social well being.
- [PO.13.] **Problem analysis**
- [PO.14.] **Conduct investigations of complex problems**
- [PO.15.] **Design/Development of Solutions**
- [PO.16.] **Individual and Teamwork**

PROGRAMME SPECIFIC OUTCOMES (PSO's):

PSO 1. Students will be able to understand, analyze and interpret the key concepts in physical and human geography of environmental systems, major landforms, process linkages, variable scale, and "cause and effect" and how they relate to the influence of climate, geology, and human activities in shaping the earth surface.

PSO 2. Students will develop an in-depth understanding of the concepts of "space," "place" and "region" and the importance of spatial and temporal patterns in explaining world affairs. Students will be able to analyze and interpret the different economic, social, cultural, demographic and economic processes, economic regions and their relation with physical and cultural environment.

PSO 3. Students will be able to apply field, statistical and RS, GIS techniques to quantify the quantity, characteristics, and history of physical phenomena for geographic research and natural resources management. Students will learn scientific methods including critical thinking, sampling, hypothesis formulation and testing, and controlled experimentation to assess environmental problems, and be able to effectively communicate research objectives, methodology, results, interpretations, and conclusions in oral and written formats.

PSO 4. Students will be able to synthesize geographic knowledge and apply innovative research strategies to solve problems in resource conservation, environmental change, and sustainable development within the community, region, and world

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PROGRAMME EDUCATIONAL OBJECTIVE (PEO's):

PEO 1 The objective of the master's programme in geography is to impart knowledge of the theoretical and practical of geographical studies.

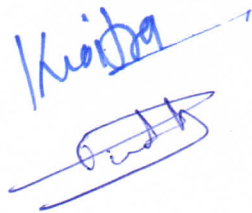
PEO 2 The objective of the programme is also to train the students and also sensitize them to the scope for research towards basics and recent research problem.


PEO 3 The objective of the master's programme in geography is students will learn to connect key theories and concepts within the subfields of human and physical geography to real-world practical applications.

PEO 4 The objective of the programme is also to the prepare student personally and professionally for careers in public, private and academic sectors.



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MASTER OF ARTS -GEOGRAPHY

Duration: 24 Months (2 Years) Eligibility: Graduation with Geography

COURSE STRUCTURE OF M.A I ST SEMESTER													
Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
6HMGY101	Core Course	Geomorphology	100	50	17	20	08	30	12	4	-	-	4
6HMCY102	Core Course	Economic Geography	100	50	17	20	08	30	12	4	-	-	4
6HMGY103	Core Course	Geography of India (Physical & Resources)	100	50	17	20	08	30	12	4	-	-	4
6HMGY104	Core Course	History of Geographical thought	100	50	17	20	08	30	12	4	-	-	4
Term in Practical													
Practical Group				Exam									
6HMGY105	Practical	Advance Cartography	50	25	08	-	-	25	08	-	-	2	2
6HMGY106	Practical	Statistics & surveying	50	25	08	-	-	25	08	-	-	2	2
	Grand Total		500							16		4	20

Minimum Passing Marks are equivalent to Grade D

Major- Term End Theory Exam

Minor- Pre University Test

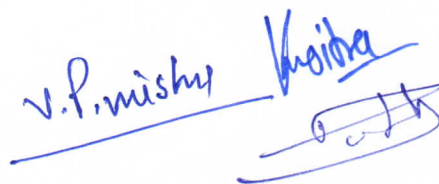
Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

L- Lectures T- Tutorials P- Practical

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Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
5HMGY201	Core Course	Climatology	100	50	17	20	08	30	12	4	-	-	4
5HMGY202	Core Course	Resource Management	100	50	17	20	08	30	12	4	-	-	4
5HMGY203	Core Course	Geography of India (Economy & Regions)	100	50	17	20	08	30	12	4	-	-	4
5HMGY204	Core Course	Geography of Environment	100	50	17	20	08	30	12	4	-	-	4
Term End Practical Practical Group Exam													
5HMGY205	Practical	Map Projection & Interpretation	50	25	08			25	08			2	2
5HMGY206	Practical	Statistics & Surveying	50	25	08			25	08			2	2
Skill Courses								Sessional					
	Skill Enhancement	Skill Enhancement Course I	50			50	20			1	-	1	2
	Grand Total		550							17		5	22

Minimum Passing Marks are equivalent to Grade D

Major- Term End Theory Exam/ Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

Skill Elective I – Any other course being offered in this semester as per the list given at the end of course structure.

L- Lectures T- Tutorials P- Practical

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COURSE STRUCTURE OF M.A IIIRD SEMESTER

Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
6HMGY301	Core Course	Oceanography	100	50	17	20	08	30	12	4	-	-	4
6HMGY302	Core Course	Urban Geography	100	50	17	20	08	30	12	4	-	-	4
	DSE	Elective – I	100	50	17	20	08	30	12	4	-	-	4
	DSE	Elective – II	100	50	17	20	08	30	12	4	-	-	4
Term End Practical													
Practical Group Exam													
6HMGY307	Practical	Morphometric Analysis	50	25	08	-	-	25	08	-	-	2	2
6HMGY308	Practical	Statistics	50	25	08	-	-	25	08	-	-	2	2
Skill Courses													
	Skill Enhancement	Skill Enhancement Course II	50	-	-	-	-	50	20	1	-	1	2
	Grand Total		550							17		5	22

Minimum Passing Marks are equivalent to Grade D

L- Lectures T- Tutorials P- Practical

Major- Term End Theory Exam/ Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

Skill Elective I – Any other course being offered in this semester as per the list given at the end of course structure.

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SPECILIZATION WITH ELECTIVE

*Note - Students need to select any one group and choose any two subjects from selected group for fifth and sixth semester.

Electives for Third Semester		
Course Code	Course Type	List of Electives
Elective-I		
6HMGY303	Discipline Specific Elective-I	Geography of Tourism
6HMGY304	Discipline Specific Elective-I	Agricultural Geography
Elective-II		
6HMGY305	Discipline Specific Elective-I	Bio Geography
6HMGY306	Discipline Specific Elective-I	Political Geography

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COURSE STRUCTURE OF M.A. IVTH SEMESTER

Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
HMGY401	Core Course	Research Methodology	100	50	17	20	08	30	12	4	-	-	4
HMGY402	Core Course	Remote Sensing	100	50	17	20	08	30	12	4	-	-	4
	Core Course Elective	Elective – I	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam				Sectional					
PRMA405	Project/Dissertation/Internship & Viva Voce	Project/Dissertation/Internship & Viva Voce	200	100	33	-	-	100	40	-	-	8	8
	Grand Total		500							12		8	20

Minimum Passing Marks are equivalent to Grade D

Major- Term End Theory Exam/ Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

Compulsory Project/Dissertation & Viva Voce in Disciplinary specific elective. Compulsory one paper presentation certificate in related discipline.

L- Lectures T- Tutorials P- Practical

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SPECILIZATION WITH ELECTIVE

*Note - Students need to select any one group and choose any two subjects from selected group for fifth and sixth semester.

Electives for Fourth Semester			
	Course Code	Course Type	List of Electives
Elective-I			
6HMGY403		Discipline Specific Elective-I	Population Geography
6HMGY404		Discipline Specific Elective-I	Health Geography

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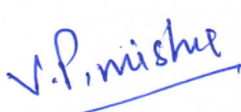


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SKILL ENHANCEMENT ELECTIVE COURSES

Non-Technical			
Elective No.	Department/ Faculty Name		
	Faculty of Information Technology		
I	SCIT 201	Data Entry Operation	2(1+0+1)
II	SCIT 301	Multimedia	2(1+0+1)
III	SCIT 501	Web Designing with HTML	2(1+0+1)
IV	SCMIT 201	Web Development	2(1+0+1)
V	SCMIT 301	LINUX	2(1+0+1)
	Faculty of Management		
I	SMGT 201	Briefing and Presentation Skills	2(1+0+1)
II	SMGT 301	Resolving Conflicts and Negotiation Skills	2(1+0+1)
III	SMGT 802	Entrepreneurship Development	2(1+0+1)
	Faculty of Commerce		
I	SCOM 201	Tally ERP 9	2(1+0+1)
II	SCOM 302	Multimedia	2(1+0+1)
III	SCOM 803	Data Analyst	2(1+0+1)
	Faculty of Humanities		
I	SHBA 301	Pursuing Happiness	2(1+0+1)
II	SHBA302	Communication Skill and Personality Development	2(1+0+1)
III	SHMA301	Tourism in M.P	2(1+0+1)
	Faculty of Science		
I	SSBI 301	Mushroom Cultivation	2(1+0+1)
II	SSPH 301	House Hold Wiring	2(1+0+1)
III	SSPH 301	Basic Instrumentation	2(1+0+1)
IV	SSPH 301	DTP Operator	2(1+0+1)
V	SSCH 301	Graphic Designing	2(1+0+1)
	Faculty of Education		
I	SCBE 403	Understanding of ICTC (Information Communication Technology)	2(1+0+1)
II	SCPE 201	Yoga Education	2(1+0+1)


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SEMESTAR- 1st
Course- M A (Geography)
Subject- PAPER 1 (Geomorphology)

Subject Code:6HMGY101
Theory Max. Marks:50
Theory Min. Marks: 17

COURSE OBJECTIVE –

- To study the basic concept of lithosphere.
- To study the geomorphic processes of the earth.

Course Content		Methodology Adopted
Unit-I	Geomorphology - Definition Nature, and Scope, History of development of Geomorphology, Recent trends. Methods of study of landforms, Fundamental concepts-Geological structures and Landforms Evolution of landforms.	ICT and Green board based class room teaching individual presentation.
Unit-II	Earth movement - Epeirogenetic, Organic and Cymatogenic, Plate tectonics, Isostasy, Vulcanicity, Organic structures with reference to evolution of Himalayas.	ICT based class room, individual presentation
Unit-III	Exogenetic Possess - Weathering, mass movement, erosion and depositional processes and resultant land forms and soil formation, slope evolution.	ICT based class room, individual presentation Lab work
Unit-IV	Geomorphic processes - Dynamics of Fluvial, Glacial, Aeolian, Marine and Karst Processes and resulting landforms, erosion surface.	ICT based class room, individual presentation Lab work
Unit-V	Applied Geomorphology - Application of Geomorphic mapping, , Hydro Geomorphology, Urban Geomorphology, Environmental Geomorphology, Environmental Hazards.	ICT based class room, individual presentation and Group discussion.

COURSE OUTCOMES –

- Students will be able to understanding about physical process that from the landscape.
- Students will be able to understanding the application of applied Geomorphology.

TEXT BOOK:-

1. Singh S : “Geomorphology”, Prayag Publication, Allahabad,1998
2. Sharma .H.S.(ed):”Perspectives in Geomorphology” ,Concept, New Delhi.1980

REFERENCE BOOKS:-

1. Goodies A: “The Nature of the Environment”, Oxford & Blackwell, London 1993.
2. Holms, A: “Principal of Physical Geology”, Thomas Nelson, London.
3. Stoddert D.R. (ed): “Process and from in Geomorphology”, Roulledge, New York, 1996.
4. Skinner, B.J. & Porters” The Dynamic Earth john Wiley” , New York 1995.
5. Sparks, B.W.”Geomorphology”, Longman, London 1960.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Geomorphologist * Teacher * Assistant researcher	* Analysis and problem solving, able to plan for geomorphic situation	climate action, life and land, Good health and well being and quality education goals achieved	

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SEMESTAR- 1

Course- M A (Geography)

Subject- PAPER II (ECONOMIC GEOGRAPHY)

Subject Code : 6HMGY102

Theory Max. Marks : 50

Theory Min. Marks : 17

OBJECTIVE –

- To Study the location, distribution of economic activities in different regions of the world.
- To develop an understanding and awareness for regional disparities in economic development.

Course Content		Methodology Adopted
Unit-1	Scope, content and recent trends in economic geography, relation of economic geography with economics and other branches of social sciences, Location of economic activities and spatial organization, classification of economy, Sector of economy (Primary. Secondary and tertiary)	ICT and Green board based class room teaching individual presentation.
Unit-2	Factors of localization of economic activities: Physical, Social, Economic, and cultural. Concepts and techniques of delimitations of agriculture region. Crop combination and diversification, Von Thunen's model and its modification.	ICT and Green board based class room teaching individual presentation.
Unit-3	Classification of industries: Resources based and foot-loose Industries. Theories of industrial Localization-Weber, Losh and Isard: case studies of selected industries-Iron and steel, Aluminum.	ICT and Green board based class room teaching individual presentation.
Unit-4	Modes of transportation and transport cost: accessibility and connectivity, Typology of market, network in rural society, market system in urban economy, role of market in the development of trade and commerce.	ICT and Green board based class room teaching individual presentation.
Unit-5	Economic development of India, Regional disparities. Impact of green revaluation of Indian economy, Globalization and Indian economy its impact on development.	ICT and Green board based class room teaching individual presentation.

OUTCOME –

- Student will be able to understanding about the economic activities of a Particular region.
- Students will be able to understand the level of economic development.

TEXT BOOK:-

1. Chatterjee S.P. :-“Economic Geography of Asia”, Allied Book Agency, Calcutta 1984.

REFERENCE BOOKS:-

1. Berry J.L. :-“Geography of Market centers and Retail Distribution”, Practice hall, New York 1967
2. Chorley R.J. and Haggett, P (ed):-“Network Analysis in Geography”, Arnord 1969.
3. Drete J and Sen A:-“India Economic Development and Social Opportunity”, Oxford University Press New, Delhi 1996.
4. Eenersley B.J. and Delobe :-“A Geography of Marketing Longman”, London 1979.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Economist, analyst , * planner	* Problem-solving skill * Time management and commercial awareness	Responsible Consumption and Production, Sustainable cities and communities, Decent work and Economic growth and quality education goals achieved	Agricultural and Industrial work

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SEMESTAR- 1

Course- M A (Geography)

Subject-PAPER III GEOGRAPHY OF INDIA (PHYSICAL & RESOURCES)

Subject Code: 6HMGY103

Theory Max. Marks:50

Theory Min. Marks: 17

OBJECTIVE –

- To study the Physical Background of India.
- To study the distribution of mineral, Power and human Resource in India.

Course Content		Methodology Adopted
Unit-1	India: Physiographic and Geological Structure, drainage system and their functional Significance to the country.	ICT and Green board based class room teaching individual presentation.
Unit-2	The Indian monsoon, regional and seasonal variation of Weather, climate division: Soil types, their characteristics, distribution and problems: forest resource and their conservation.	ICT and Green board based class room teaching individual presentation.
Unit-3	Mineral and power resources- Reserves, production and problems of conservation of major minerals.	ICT and Green board based class room teaching individual presentation.
Unit-4	Water Resources- Potential of water resources, their regional distribution and utilization development and spatial pattern, Resource regions of India.	ICT and Green board based class room teaching individual presentation.
Unit-5	Population distribution, density and growth with special reference to post independence period and its implication, Literacy and education and its spatial patterns, Urbanization and characteristics of Indian cities.	ICT and Green board based class room teaching individual presentation and Group discussion

OUTCOME –

- Student will be able to understand the Physical and Resource background of India.
- Student will be able to increase their understanding of resource management in india.

TEXT BOOK:-

1. Tiwari R. C. – “Geography of India”, Pravalika prakashan, Allahabad.

REFERENCE BOOKS:-

1. “Center for Science & Environment”, (1988) State of India’s Environment, New Delhi.
2. Deplaned C.D.India: “a Regional Interpretation”, ICSSR & Northern Book Center 1992.
3. Dreza, Jean & Amartya Sen (ed.): - “India Economic Development and social opportunity” Oxford University Person, New Delhi 1996.
4. Kundu A.Raza Moonis :-“Indian Economy”,the Regional Dimension Speculum Publishers, New Delhi,1992

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Coaching Tutor, * Teacher/Lecturer, Regional planner	* Analytical Skill * Critical thinking skill * Decision making skill	Responsible, Consumption and Production ,Industry innovation and infrastructure, Peace, Justice and Strong institution and quality education goals achieved	Tutorial, Surveyor

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SEMESTAR- 1

Course- MA (Geography)

Subject- PAPER IV (HISTORY OF GEOGRAPHICAL THOUGHTS)

Subject Code : 6HMGY104

Theory Max. Marks :50

Theory Min. Marks : 17

OBJECTIVE –

- To study the historical background of Geography.
- To study the methodological development of Geography.

Course Content		Methodology Adopted
Unit-1	Geography Nature and Scope, Its Place in the classification of sciences, geography as a social science and natural science. Selected concepts in the philosophy of geography- distributions, relationships, interactions, areal differentiation and spatial organization.	ICT and Green board based class room teaching individual presentation.
Unit-2	Historical Development: Contributions different scholars during ancient, mediæval and modern period, Dualisms in geography: systematic & regional geography: Physical & human geography, The myth and reality about dualisms.	ICT and Green board based class room teaching individual presentation.
Unit-3	Regional geography: Concept of region, regionalization and the regional method. Scientific explanation: Routes to scientific explanation (Inductive/Deductive): type of explanations - cognitive, description; cause & effect temporal, Functional / ecological systems.	ICT and Green board based class room teaching individual presentation.
Unit-4	Laws, theories & models: the quantitative revolution, responses to positivism, behaviorism, postmodernism.	ICT and Green board based class room teaching individual presentation.
Unit-5	Geography in the 20 th century, conceptual and methodological developments and changing paradigms, status of Indian Geography, Future of geography, task ahead relation to development of geographic thought with special reference to changing views on man-Environment relationship.	ICT and Green board based class room teaching individual presentation and Group discussion.

OUTCOME –

- To develop an understanding about the interrelation between man-environment.
- Student will be able to understand their future Prospects in Geography Subjects.

TEXT BOOK:-

1. Hussain M : “Evolution of Geographic Thought”, Rawat Pub., Jaipur, 1984.
2. Minshull, R: “The Changing Nature of Geography”, Hutchinson University Library, London, 1970.

REFERENCE BOOKS :-

1. Abler, Ronal; Adams, John S. Gold, Peler: “Spatial Organization”: The Geographer’s view of the world, Prentice Hall’N, J, 1971.
2. Amedeo, Douglas: “An Introduction to Scientific Reasoning in Geography”, John Wiley, U.S.A., 1971.
3. Johnston R.J.: “Philosophy and Human geography”, Edward Arnold, 1983
4. Johnston R.J. “The future of Geography”, Methuen, London, 1988.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Teacher/Lecturer * Historical and Geographical analyst.	* Time Management * Critical Thinking * Problem Solving Skill * Flexibility and openness on mind in dealing with a range of different conceptual paradigms in both human and physical geography.	Reduced Inequalities, Clean water and sanitation, Partnerships for the goals	Tutorial for Historical and Geographical Background

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SEMESTER- 1st

Course:- M. A. Geography

SUBJECT:- Cartography (Practical I)

Subject Code:- 6HMGY105

Theory Max. Marks: 50

Theory Min. Marks: 25

Unit-I Graphs and Diagrams - Hythergraphs, Climographs, Ergo Graphs, spheres and Cubes Diagram.

Unit-II Thematic Maps- Choropleth maps , Isolines, Flow maps and Isochrones and Dot map.

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SEMESTER- 1st

Course:- M. A. Geography

SUBJECT:-Statistics & surveying (practical II)

Subject Code:- 6HMGY106

Theory Max. Marks: 50

Theory Min. Marks: 25

Unit-I Measures of Central tendency (Mean, Median, Mode)

Unit-II Prismatic Compass Surveying: Method of Prism pass Surveying: Radiation, Intersection and traverse, Correction of bearing, Elimination the closing error

Unit-III Plane table Surveying : Plan preparation, methods of plane table surveying Radiation, Intersection, Traverse & resection method.

SUGGESTED READING :-

1. Monk house F.J. and H.R. Wilkeson: Maps and Diagrams, Methuen, London.
2. Davis, R.C. and E.S. Forte : Surveying : Theory and Practical
3. Ashish sarkar : Practical Geography : Arihant Publisher
4. Mahmood Aslam: Statistical Methods in Geographical Studies Rajesh Pub. New Delhi.

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SEMESTAR- II

Course- M A (Geography)

Subject- PAPER I (CLIMATOLOGY)

COURSE OBJECTIVE –

- To study the basic concept of lithosphere.
- To study the Natural Process which act on the earth's Surface and the landforms.

Subject Code : 6HMGY201

Theory Max. Marks :50

Theory Min. Marks : 17

Course Content		Methodology Adopted
Unit-I	Nature and scope of climatology and its relationship with meteorology, composition and Structure of the atmosphere.	ICT and Green board based class room teaching individual presentation.
Unit-II	Insolation, heat balance of the earth, green house effect, vertical and horizontal distribution of temperature.	ICT and Green board based class room teaching individual presentation.
Unit-III	Atmosphere moisture: Humidity, evaporation, condensation, precipitation: type, acid rain, world pattern of precipitation.	ICT and Green board based class room teaching individual presentation and Lab work
Unit-IV	Atmosphere motion, Forces controlling of air vertical motion, local winds, jet stream .monsoon winds, El Nino, Cyclones, General circulation in the atmosphere.	ICT and Green board based class room teaching individual presentation.
Unit-V	Climatic classification of Koppen, and Thornwaite, Major Climates of the world tropical, temperate, desert and mountain Climate.	ICT and Green board based class room teaching individual presentation and Group discussion

COURSE OUTCOMES –

- Students will be able to understand about climatic conditions, climatic change of the earth..

TEXT BOOK:-

1. Lal D.S. "Climatology", Chaitanya Publication, Allahabad 1986.

REFERENCE BOOKS:-

2. Barry R.G. and Chorley P.J. "Atmosphere Weather and Climate routeledge", London and Newyork 1998.
3. Critchfield JH: "General Climatology Prentice Hall India", New Delhi 1987.
4. Das P.K. "Monsoon National Book Trust", New Delhi 1987.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Climatologist, * Conservation, Officer, * Teacher/Lecturer	* Time Management * Problem Solving Skill * Critical thinking skill * Action plan	Affordable and clean energy, and quality education goals achieved, Climate action, Life on land, Partnership for the Goals.	* Coaching Institute * Planning Office

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SEMESTAR- II

Course- M A (Geography)

Subject- PAPER II (RESOURCE MANAGEMENT)

COURSE OBJECTIVE –

- To study the concept of Resource management.
- To study the environmental perception in resource conservation.

Subject Code : 6HMGY202

Theory Max. Marks :50

Theory Min. Marks :17

Course Content		Methodology Adopted
Unit-I	Meaning, nature and classification of resources, Interrelation between culture and resources.	ICT and Green board based class room teaching individual presentation.
Unit-II	Resource appraisal -concept and techniques and methods.	ICT and Green board based class room teaching individual presentation.
Unit-III	Resources allocation-concept, Method and techniques. perspectives of resource development. Conservation of resources: meaning, principles, philosophy and approaches of resources conservation.	ICT and Green board based class room teaching individual presentation.
Unit-IV	Concept of resources management, theories of resource management; Difference between resource development and conservation and management. Evaluation of social cost and benefits, Status of common property resources, perception. Decision making in resources management.	ICT and Green board based class room teaching individual presentation.
Unit-V	Use and misuse of resources – Global and Indian scenario, resource development policies in India. Environmental perception in resources management, impact assessment; natural hazards and risk management, sustainable resource management.	ICT and Green board based class room teaching individual presentation and Group discussion

COURSE OUTCOME –

- Students will be able to understand about resource development policy.
- To develop an understanding and awareness for resource conservation.

TEXT BOOK:-

1. Sharma T.C. & O Continuo:” Economic and Commercial Geography of India “,Vikas Publication New Delhi.

SUGGESTED READING :-

1. Trewartha G.T. Japan:“A Physical and Cultural Geography”,University of Wisconsin Press Madison 1965
2. Singh Jagdish “India Gyanodaya”, Gorakhpur.
3. Keeble, L – “Principle and Practice of town and Country Planning”.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Teacher * Lecturer * Recourse manager	* Time Management * Analytical Skill * Decision making skill * Problem solving skill * Action planning	Affordable and clean energy, Life on land, Responsible consumption and production, quality education goals achieved	* NGO

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SEMESTAR- II

Course- M A (Geography)

Subject-PAPER III (GEOGRAPHY OF INDIA (ECONOMY AND REGIONS))

COURSE OBJECTIVE –

- To study the economical and regional background of India.
- To study the regional divisions of India.

Subject Code: 6HMGY203

Theory Max. Marks :50

Theory Min. Marks : 17

Unit wise Course content		Methodology Adopted
Unit-I	An overview of Indian economy and impact of globalization . land use patterns, major crops and problem of agriculture.	ICT and Green board based class room teaching individual presentation.
Unit-II	Technological development in agriculture .Green revolution and its consequences; Productivity and Pattern of agriculture. agricultural regionalization of India.	ICT and Green board based class room teaching individual presentation.
Unit-III	Industry-Industrial development and overview, locational factors and spatial pattern of major industries in India- Iron and steel , engineering goods , textiles , chemical, cement, sugar and paper. Industrial regions of India.	ICT and Green board based class room teaching individual presentation.
Unit-IV	Transport and trade – Development of Transport network, Different mode of transport and their significance, Trade- internal and international trade of India, composition and change.	ICT and Green board based class room teaching individual presentation.
Unit-V	Regions of India – Basis of regional division, macro and meso regional division of India by O.H.K. spate and R.L.Singh. Detailed Study of Narmada basin, Malwa plateau, Bundelkhand upland, Chhattisgarh Basin and Marusthali.	ICT and Green board based class room teaching individual presentation and Lab work.

COURSE OUTCOMES –

- Students will be able to understand direction of economic development of India..
- Students will be able to understand infrastructural development of India.

TEXT BOOK:-

1. Singh R.L.(ed.): India-A Regional Geography National Geographical Society, India Varanasi 1971

REFERENCE BOOKS :-

1. Deplaned C.D.India: "A Regional Interpretation", ICSSR & Northern Book Center 1992.
2. Dreza, Jean & Amartya Sen (ed.) "India Economic Development and social opportunity", Oxford, University Person, New Delhi 1996.
3. Kundu A.Raza Moonis : "Indian Economy", the Regional Dimension Speculum Publishers, New Delhi, 1992
4. Tritha R. & Gopal Krishna, "Emerging India", Reprinted by Rawat Publication, Jaipur 1996.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Coaching Tutor * Teacher/Lecturer, Regional planner	* Analytical Skill * Critical thinking skill * Decision making skill	Responsible, Consumption and Production, Industry innovation and infrastructure, Peace, Justice and Strong institution and quality education goals achieved	Tutorial, Surveyor

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SEMESTAR- II

Course- M A (Geography)

Subject- PAPER IV (GEOGRAPHY OF ENVIRONMENT)

COURSE OBJECTIVE –

- To study the environmental concept.
- To study the interrelation between the various components of the environment and ecosystem.

Subject Code : 6HMGY204

Theory Max. Marks :50

Theory Min. Marks :17

Course Content		Methodology Adopted
Unit-I	Environment: Meaning, definition, concept and Theories related to environment; Environment and its Components: Classification, Characteristics and their interrelationship.	ICT and Green board based class room teaching individual presentation.
Unit-II	Development of the environmental studies and their approaches, development of environmentalism in geography. Environment and development.	ICT and Green board based class room teaching individual presentation.
Unit III	Ecological concept -Ecosystem: meaning, definition, concepts, and components, main terrestrial ecosystem of the world, forests and agriculture, geography as human ecology.	ICT and Green board based class room teaching individual presentation.
Unit IV	Environmental Hazards:- Natural and man induced hazards.	ICT and Green board based class room teaching individual presentation.
Unit V	Environmental pollution – meaning, definition, nature and types – air, water, noise and other.	ICT and Green board based class room teaching individual presentation and Group discussion

COURSE OUTCOMES –

- Students will increase awareness for environmental conservation.

TEXT BOOK:-

1. Singh, Savindra – “Environmental Geography”, Allahabad

REFERENCE BOOKS :-

1. Singh J & D.N. Singh – “An introduction to our Earth and Environment”, Varanasi
2. Kayastha S.L. and V.K. Kumra – “Environmental Studies”, Varanasi.
3. Mitchell, Bruce-“Geography and Recourse Analysis”, Longman

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
<ul style="list-style-type: none"> * Conservation Planner * Recycling Officer * Teacher/Lecturer * Environmental Consultant 	<ul style="list-style-type: none"> * Analytical skill * Action planning * Problem Solving * An interest in the environment and the world. 	Life on land, Affordable and clean energy, Climate action, Partnerships for the goals and quality ducation goals achieved	

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SEMESTER- 2nd

Course:- M. A. Geography

SUBJECT:-Map Projection & Interpretation (Practical I)

Subject Code:- 6HMGY205

Theory Max. Marks: 50

Theory Min. Marks: 25

Unit-I Graphs and Diagrams: Triangular graph, Logarithmic and Semi logarithmic graphs, Scatter graphs and Map Projection types and Mathematical construction of world projection.

Unit-II Morphometric analysis:- Profile, slop analysis, block diagrams Interpretation of map Topo sheets and Geological map

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SEMESTER- 2nd

Course:- M. A. Geography

SUBJECT:-Statistics & Surveying (Practical II)

Subject Code:- 6HMGY206

Theory Max. Marks:50

Theory Min. Marks:25

- Unit-I** Measures of Central tendency (Rang, Quartile Deviation, Mean deviation, standard deviation)
- Unit-II** Dumpy level Surveying: Meaning of the terms used in leveling method of leveling-radiation, intersection, travers and resection method.
- Unit-III** Theodolite Surveying: Meaning and terms used in Theodolite surveying, measurement of horizontal distances vertical height, accessible and non accessible method.

SUGGESTED READING :-

1. Davic, R.C. and E.S.Forte: Surveying: Theory and Practical.
2. Kanetkar, T.R. and S.V. Kulkarni : Surveying and leveling part I and II A.V.G. Prakashan ,Poona
3. Monk house F.J. and S.V.Kulkarni: Maps and Diagrams, Methuen London
4. Ashish Sarkar : Practical Geography, Arihant Publisher

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SEMESTAR- III

Course- M A (Geography)

Subject- PAPER 1 (OCEANOGRAPHY)

COURSE OBJECTIVES –

Subject Code : 6HMGY301

Theory Max. Marks : 50

Theory Min. Marks : 17

- To study the marine life and ocean circulation, and geology of the sea floor and the chemical and physical properties of the ocean.

Course content		Methodology Adopted
Unit-I	Nature and scope of oceanography, distribution of Relief feature the ocean, Relief of the pacific, Atlantic and India Ocean.	ICT and Green board based class room teaching individual presentation.
Unit-II	Composition of oceanic water, distribution of temperature and salinity. Horizontal and Vertical distribution.	ICT and Green board based class room teaching individual presentation.
Unit-III	Circulation of oceanic water waves, Tides and currents; Ocean deposits- their Sources and Types.	ICT and Green board based class room teaching individual presentation.
Unit-IV	Corals reefs: types and theories of their origin, ocean as a source of food and minerals with special reference to Indian Ocean.	ICT and Green board based class room teaching individual presentation.
Unit-V	Chemistry of the sea Biological Environmental of Sea and Impact of Human on the Marine environment.	ICT and Green board based class room teaching individual presentation.

COURSE OUTCOMES –

- Students will be able to Understand the Biological Environmental of Sea.
- To develop an Understanding about the impact of human on the marine environment.

TEXT BOOK:-

- D.S.Lal : “Oceanography” ,Chaitanya Prakashan, Allahabad.

REFERENCE BOOKS:-

- Davis Richard J.A. : “Oceanography-An Introduction to the marine Environment” ,Wm.C. Brown Iowa 1986.
- Gross M Grant : “Oceanography for Geography”, 1962 Sharma R.C. The Ocean Rajesh N Delhi 1985.
- Ummerkulty A.N.P. “Science of the Oceans and Human life”, NBT, New Delhi 1985.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved .	Entrepreneurship Opportunity
* Teacher/Lecturer	* Action planning * Decision making skill * Problem Solving Skill * Analytical Skill	Life below water, Sustainable Cities and Communities, and quality education goals achieved, Life and Land	

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SEMESTAR- III

Course- M A (Geography)

Subject- PAPER II (URBAN GEOGRAPHY)

COURSE OBJECTIVES –

- To study the origin and development of Urban settlement
- To Understand the theories and concepts of Urban settlement

Subject Code : 6HMGY302

Theory Max. Marks :50

Theory Min. Marks :17

Course content		Methodology Adopted
Unit-I	Nature and scope of urban geography, Different approaches and recent trends in urban geography, origin and growth of urban settlements, functional classification of Town.	ICT and Green board based class room teaching individual presentation.
Unit-II	Urban System: Urban growth and theories .Urban hierarchy, Central place theory of Christaller and Losch, Contribution of Indian scholars to the studies of urban settlements, Urban Economics Base; Basic and non basic functions, input-output models.	ICT and Green board based class room teaching individual presentation.
Unit-III	Urban Morphology-city core, commercial, Industrial and residential areas, Modern urban landscape, Morphology of Indian urban settlement and its comparison with western urban settlement.	ICT and Green board based class room teaching individual presentation.
Unit-IV	Land use Models, concentric Zone theory, Sector model, multiple nuclei model, city regions, urban expansion, umland and periphery . Contemporary urban issues	ICT and Green board based class room teaching individual presentation.
Unit-V	Urban Policy and planning – development of medium and small sized towns , planning for new warts , city planning , green belts , garden cities urban policy , Contemporary issues in urban planning , globalization and urban planning in the third world , urban land use planning with special reference to India.	ICT and Green board based class room teaching individual presentation and group discussion

COURSE OUTCOMES –

- Students will be able to Understand about Urban system and the morphology.
- Students will be able to Understand about city planning and contemporary issue of Urban centers.

TEXT BOOK:-

1. D.S.Lal : “Oceanography” ,Chaitanya Prakashan, Allahabad.

REFERENCE BOOKS:-

1. Griffith , J.P.- “A study of Urban Construction in India” , Urban Research Method
2. Mayor , H.M. And C.F. Kohn – “Readings in urban Geography”
3. Carter Harold – “Study of Urban Geography” , London
4. Singh R.L. & K.N. Singh – “Readings in Rural Settlement Geography” , NGSI Varanasi 1975 Edward Arnold 1979.
5. S.D. Mourya – “Nagariya Bhugol” , Rawat Publication, Jaipur.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Tourism Officer * Urban Planner * Regional Planner	* Action plan * Time Management * Decision making skill * Leadership skill * Assertiveness	Industry, Innovation and Infrastructure, Responsible Consumption and production, Sustainable Cities And Communities and quality education goals achieved	* Tourist place * Travel agent

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SEMESTAR- III

Course- M A (Geography)

Subject- Elective – I (GEOGRAPHY OF TOURISM)

Subject Code : : 6HMGY303

Theory Max. Marks :50

Theory Min. Marks : 17

OBJECTIVES -

- To study the elements of tourism.
- To study the infrastructure system of tourism.

Course content		Methodology Adopted
<u>Unit I</u>	Basics of tourism. Definition of tourism, Factors affecting tourism- Physical, historical, Economical and Social, Cultural, Elements of tourism, tourism as an industry.	ICT and Green board based class room teaching individual presentation.
<u>Unit II</u>	Geography of tourism :- Its special affinity, areal and locational dimensions, type of tourism, national and international tourism.	ICT and Green board based class room teaching individual presentation.
<u>Unit III</u>	India tourism:- Regional dimensions of tourist attraction , evolution of tourism and promotion of tourism.	ICT and Green board based class room teaching individual presentation.
<u>Unit IV</u>	Infrastructure and support system. – Short and longer destination- agencies and intermediaries, Accommodation and supplementary accommodation, Other facilities. Indian hotel Industry.	ICT and Green board based class room teaching individual presentation.
<u>Unit V</u>	Impact of tourism; physical, economic and Social, Positive and negative impacts of Tourism, Environmental laws and tourism, Current trends, spatial pattern and recent changes; role of foreign capital.	ICT and Green board based class room teaching individual presentation and field visit.

COURSE OUTCOMES –

- Student will be able to understand about positive and negative impacts of Tourism.

TEXT BOOKS:-

1. Dixit N.K. – “Tourism Geography”, Vista International Pub. , New Delhi.

REFERENCE BOOKS :-

1. Jha A.K. - “International Tourism Fundamentals and Practices”, New Delhi Sterling Publisher 1991.
2. C and Green H -“Tourism and the Environment”, A Sustainable Relationship London, Routledge 1995.
3. Shukla R.K. – “Dynamic of Tourism and Recreation”, New Delhi, Inter India 1985.
4. Rakhit J. – “Himalayan Pilgrimages and New tourism”, New Delhi, Himalaya books 1985

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Tourism Officer * Urban Planner * Regional Planner	* Action plan * Time Management * Decision making skill * Leadership skill * Assertiveness	Industry, Innovation and Infrastructure, Responsible Consumption and production, Sustainable Cities And Communities and quality education goals achieved	* Tourist place * Travel agent

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SEMESTAR- III

Course- M A (Geography)

Subject- Elective – I (AGRICULTURAL GEOGRAPHY)

COURSE OBJECTIVES –

- To study the origin and Dispersal of agriculture.
- To study the approaches of the agricultural studies.

Subject Code :6HMGY304

Theory Max. Marks : 50

Theory Min. Marks : 17

Course Content		Methodology Adopted
Unit –I	Nature, Scope and significance of agricultural geography, approaches to the Studies of agricultural geography, commodity, systematic and regional, origin and Dispersal of agriculture.	ICT and Green board based class room teaching individual presentation.
Unit –II	Factors of agricultural and use: Physical, economic, social, institutional and environmental. Theories of agricultural location based on several multi-dimensional factors, Von Thunen Theory of agricultural location and its recent modification	ICT and Green board based class room teaching individual presentation.
Unit –III	Land use and Land Capability classification; concepts and measures of agricultural productivities, agricultural efficiency and crop combination, diversification and specialization.	ICT and Green board based class room teaching individual presentation.
Unit –IV	Agricultural typology and region; Kostrovickis scheme of agricultural typology, critical review of Whittlesy classification of Agricultural region, methods of Agricultural Regionalization.	ICT and Green board based class room teaching individual presentation.
Unit –V	Agricultural in India – Land use and changing cropping pattern, Regional pattern of Productivity in India. Green revolution and its impact, white revolution, food surplus region, Specific Problem in India Agricultural and their Management Agricultural Policies in India.	ICT and Green board based class room teaching individual presentation and field visit.

COURSE OUTCOMES –

- Students will be able to understand in situational and technological development of agriculture
- Students will be able to understand about agricultural development and problem in India.

TEXT BOOKS:-

1. Hussian M – “Agricultural Geography”, Rawat Publication, Jaipur.

REFERENCE BOOKS:-

1. Byliss Smith T.P. – “The Ecology of Agriculture Systems”, Cambridge University Press London 1987.
2. Gorgon H.P. – “Geography of Agriculture”, Prentice Hall, New York 1970.
3. Hartshorne T.N. and Alexander J.W. – “Economics Geography”, Prentice Hall, New Delhi 1988.
4. Sauen C.O. – “Agricultural Origins and Dispersal”, M.I.T press Mass U.S.A 1969.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Farm Manager * Rural Practice Surveyor * Agriculture Surveyor * Agricultural officer	* Action plan * Time Management * Analytical Skill * Commercial Awareness	Good Health And Well-Being, Zero Hunger, Life on Land and quality education goals achieved	Agricultural Work

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SEMESTAR- III

Course- M A (Geography)

Subject- Elective - II (BIOGEOGRAPHY)

COURSE OBJECTIVES –

- To study the spatial Patterns of biological diversity.
- To study the principles of biogeography as a discipline.

Subject Code : 6HMGY305

Theory Max. Marks :50

Theory Min. Marks : 17

Course Content		Methodology Adopted
Unit-I	Scope and development of Biogeography, Environment, Habitat and Plant animal association, biome types.	ICT and Green board based class room teaching individual presentation.
Unit-II	Element of plant geography world. Distribution of forests and their major communities, plant succession in newly formed landforms. Example from flood plains and glacial for fields.	ICT and Green board based class room teaching individual presentation.
Unit-III	Zoogeography and its environmental relationship with special reference to tropical, temperate, cold forests and tidal regions.	ICT and Green board based class room teaching individual presentation.
Unit-IV	Paleobotanical and Paleoclimatological changes in India and its impact on biosphere.	ICT and Green board based class room teaching individual presentation.
Unit-V	National Forest Policy of India. Legal Provision of Forest conservation and its implementation conservation of biotic resources.	ICT and Green board based class room teaching individual presentation.

COURSE OUTCOMES –

- To understand the human impact on species distribution and modern conservation strategies.

TEXT BOOK:-

1. Lomolino V.Mark, Riddle R. Brett and Brown H. James, "Biogeography"

REFERENCE BOOKS:-

1. Chapman J.L and Reiss M.J. 1993 Ecology Principles and Applications Cambridge University Press Cambridge 294p
2. Chiras D.D., Reganold J.P and Owen O.S. 2002.Natural Resource Conservation Management for a sustainable future 8th edition ,Prentice Hall, Englewood Cliffs 642p.
3. Dash M.C.2001 Fundamentals of Ecology 2nd edition Tata Mc Grawhill, New Delhi 544p.
4. Huggett R. 1998 Fundamentals of Biogeography Routledge London 288p
5. Commonly E.J.1996 Concepts of Ecology 4th edition Prentice Hall India New Delhi.
6. Myers A.A. and Giller P.S.(editions) 1988 Analytical Biogeography An Integrated Approach to the Study

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Analysts * Consultant * Teacher * Conservation Officer	* Analytical Skill * Critical thinking skill * An Understanding and application of Scientific logic, Principles method and research	Climate action, quality education goals achieved, Life on Land, Responsible Consumption and Production	

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SEMESTAR- III

Course- MA (Geography)

Subject- Elective – II POLITICAL GEOGRAPHY

COURSE OBJECTIVES –

- To Study the historical background of the development of the relationship between space and politics.

Subject Code : 6HMGY306

Theory Max. Marks :50

Theory Min. Marks : 17

Course Content		Methodology Adopted
Unit-I	Nature, scope of political Geography and recent development and approaches in political geography.	ICT and Green board based class room teaching individual presentation.
Unit-II	Geographic elements of the State; Physical elements, Human elements, relation of Political geography and environment.	ICT and Green board based class room teaching individual presentation.
Unit-III	Themes in political Geography: State, Nation-State and Nation building frontiers and boundaries, Colonisation, decolonization, federalism and other forms of Governance Conflicts and Cooperation.	ICT and Green board based class room teaching individual presentation.
Unit-IV	Geopolitical Significance of Indian Ocean.	ICT and Green board based class room teaching individual presentation.
Unit-V	Geography of SAARC Region. Impact of geography on Foreign Policy in India. Changing Political map of India. Interstate water disputes and riparian claims. New emerging issues and conflicts of Indian Politics.	ICT and Green board based class room teaching individual presentation and group discussion

COURSE OUTCOMES –

- Students will be able to understand about contemporary issues in political Geography.

TEXT BOOK:-

1. Adhikani Sudipto: Political Geography Sharda Pustak Bahaman Allahabad.

REFERENCE BOOKS:-

1. Hartshorne R. 1935 : Recent development in Political Geo ; American Political Science Review
2. Taylor P.J and Colin Flint 2000: Political Geo Singapore. Pearson Education LTD.
3. Short J.R. 1982: An Introduction to Political Geo London.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
<ul style="list-style-type: none">* Political Scientists* Policy Analyst	<ul style="list-style-type: none">* Leadership Skill* Action Planning* Communication Skill* Analytical Skill	Decent work and Economic growth, Industry, Innovation and Infrastructure, reduced Inequalities; quality education goals achieved, Peace, Justice and Strong Institutions.	

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SEMESTER- 3rd

Course:- M. A. Geography

SUBJECT:- ADVANCED CARTOGRAPHY (Practical-I)

Subject Code: 6HMGY307

Theory Max. Marks:50

Theory Min. Marks: 25

Unit-I Remote Sensing : Fundamental of Remote Sensing, Concept of image interpretation.

Unit-II Geographical Information System: An overview of GIS software and elements of Geographical Information System and application of GIS

SUGGESTED READING :-

1. Monk house ,F.J.and H.R. Wilkinson : Maps and Diagrams ,Methuen pub. London
2. Mahmood, Aslan 1971: Statistical Methods in Geographical Studies, Rajesh pub. New Delhi
3. Hammond and Mccullah 1977: Quantitative Techniques in Geography ,Clarendon Press Oxford
4. Fitz Gomid B.P.: Science in Geography, Development in Geographic method Oxford University Press.
5. Prithvish Nag – Thematic Geography, Natmo New Delhi.

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SEMESTER- 3rd

Course:- M. A. Geography

SUBJECT:- STATISTICS (Practical-II)

Subject Code:- 6HMGY308

Theory Max. Marks:50

Theory Min. Marks: 25

Unit-I Product Moment and Rank Correlation Coefficients, Liner Regression, Hypothesis Testing, Chi- Square and T tests, Analysis of variance and 'F' test, Sampling.

Unit-II Running mean, mean Centre, Nearest Neighbor Analysis, and Lorenz Curve. Normal distribution Curve, Probability.

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SEMESTAR- IV

Course- M A (Geography)

Subject- PAPER I (RESEARCH METHODOLOGY)

COURSE OBJECTIVES –

Subject Code : 6HMGY401

Theory Max. Marks :50

Theory Min. Marks : 17

- To develop an understanding about research techniques in Geography.
- To study the statistical and cartographic research techniques in geography.

Course Content		Methodology Adopted
Unit- I	Research – Meaning, Characteristics, Importance, Types, Steps of Research.	ICT and Green board based class room teaching individual presentation.
Unit- II	Research Problem- Meaning, Sources, Characteristics, Criteria, Selection, And Formulation of Research Problem.	ICT and Green board based class room teaching individual presentation.
Unit- III	Hypothesis- Meaning, Characteristics, Types, Importance, Problems in Formulation of Hypothesis. Sampling - Meaning, Steps, Types – Probability and Non-probability.	ICT and Green board based class room teaching individual presentation.
Unit- IV	Tools And Techniques of Data Collection- Observation, Questionnaire, Interview, Schedule, Rating Scale	ICT and Green board based class room teaching individual presentation.
Unit- V	Measure of Central Tendencies, and their Uses. Measure of Variability and their Uses. t- Test Graphical Representation- Histogram, Frequency Polygon, Pie Graph.	ICT and Green board based class room teaching individual presentation.

OUTCOME –

- Students can define the process of geographical research.
- Students will be able to understand about limitations of the various methodologies used in the research.

TEXT BOOK:-

1. Naik P. K. & Dubey P. – “Research Methodology”, A.P.H. Publishing Corporation, New Delhi.

REFERENCE BOOKS:-

2. Best, J. W. and Kahn – “Research In Education”, 9th Ed. Prentice of India, Pvt. Ltd. New Delhi.
3. Kohli L.N. – “Research Methodology”, Y. K. Publisher.
4. Kothari C. R. - “Research Methodology”, Methods and Techniques, New age Pub. New Delhi.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Teacher/Lecturer * Research Fellow * Research Analysts	* Research Skill * An Understanding and application of scientific logic Principles method and research * Writing Communication * Makes Effective presentation	Quality Education, Industry, Innovation and Infrastructure and quality education goals achieved	* Research data Consultancy

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SEMESTAR- IV
Course- M A (Geography)
Subject- Elective III (Remote Sensing)

Subject Code : 6HMGY402
Theory Max. Marks : 50
Theory Min. Marks : 17

OBJECTIVE

- To Study the remote sensing system.
- To study the geographical information system.

Course content		Methodology Adopted
Unit-I	Historical development remote sensing, Relevance of remote sensing in geography, Remote sensing system: Platforms, sensors, radiation records.	ICT based class room, individual presentation
Unit-II	Air photos and photogramtry: Types of Air photos, Scales and ground coverage of air photos, system-Films, Filters, aerial cameras, Film exposures.	ICT based class room, individual presentation and Lab Work.
Unit-III	Elements of Vertical photographs, relief displacement image parallax, stereoscopic air photo interpretation, shape, size, pattern, tone, texture, shadows, site.	ICT based class room, individual presentation Lab work
Unit-IV	Satellites remote sensing: Platforms of satellite remote sensing-LANDSAT, SPOT, RADARSAJ, IRS, INSAT: Principles and geometry of scanners, orbital Characteristics of satellite remote sensing.	ICT based class room, individual presentation and Lab work
Unit-V	GIS (Geographical Information system)- Definition of GIS, Scope of Geographical information system, Element of Geographical Information, System Methodology of GIS procedure.	ICT based class room, individual presentation

OUTCOME –

- Students will be able to understanding about relevance of Remote Sending and GIS in Geography

TEXT BOOK:-

1. Sahu K.C. – “Remote sensing and GIS”, Atlantic pub. LTD.

REFERENCE BOOKS:-

1. Barett E.C. and L.F. Curtis : “Fundamental of Remote Sensing and Air Photo Interpretation on” McMillan, New York 1992.
2. Rao R. M. and Sharieff A. – “Geographic Information system”, Theories and practice, Rawat publication, Jaipur.
3. Saxena A. – “Geographic Information system and Spatial Data”, Quality publishing company, Bhopal.
4. Kumar S. – “Basics of remote sensing and GIS”, Laxmi Pub. LTD., New Delhi.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Remote Sensing Officer * Research Fallow	* Computing Skill * Problem Solving Skill * Analytical Skill * Action planning	Industry, Innovation and Infrastructure, quality education goals achieved Affordable and clean energy	Data analysts

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SEMESTAR- IV

Course- M A (Geography)

Subject- Elective III (POPULATION GEOGRAPHY)

OBJECTIVE –

- To study the theories and concept of population Geography.
- To Study the Different population characteristics.

Subject Code : 6HMGY403

Theory Max. Marks :50

Theory Min. Marks : 17

Course content		Methodology Adopted
Unit-I	Nature and scope of Population geography. Development of population Geography, Its relation with the Demography. Sources of population data, their problem.	ICT and Green board based class room teaching individual presentation.
Unit-II	Population distribution and density, Growth of population and its theories, World pattern of population growth and their determinants.	ICT and Green board based class room teaching individual presentation.
Unit-III	Population Composition-Age and Sex Composition, Literacy and education, occupational structure, Urbanization, Population Regions of the World.	ICT and Green board based class room teaching individual presentation.
Unit-IV	Population Dynamics: Measurement of fertility and Mortality, World patterns of fertility and mortality. Demographic Transition, International Migration.	ICT and Green board based class room teaching individual presentation..
Unit-V	Population and Resources Development: Concept of optimum population, under Population and over population. Theories of Population - Malthus, Population Resource regions of the world.	ICT and Green board based class room teaching individual presentation and group discussion

OUTCOME –

- Students will be able to understand about demography.
- Students will be able to understand various features and problems related to population.

TEXT BOOK:-

1. Chandna R. C. – “Geography of Population”, Kalyani publishers 2015.

REFERENCE BOOKS:-

1. Larkin, Karen and otiso:- “Population geography Problems”, Concept and Prospects Kendal Hunt, Publisher 2013.
2. Newbold, K – “Population geography”, tools and Issue, Rowman Publisher.
3. Khandelwal N. – “Population geography”, Ankit Publication 2017.
4. Bhattacharyya A. – “Population geography in India”, Shree Pub. House.
5. Verma L. N. and Panda B. P. – “ Population geography”, M.P Hindi Granth acedamy, Bhopal.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
<ul style="list-style-type: none"> * Demographer * Statistician * Analysts 	<ul style="list-style-type: none"> * Action Plan * Problem Solving Skill * Analytical skill * Critical thinking skill 	No Poverty, Zero Hunger, Good Health and Well-Being, Quality Education, Sustainable Cities and Communities, Responsible consumption and production and quality education goals achieved	Demographic surveying work

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SEMESTAR- IV

Course- M A (Geography)

Subject- Elective - IV (HEALTH GEOGRAPHY)

Subject Code : 6HMGY404

Theory Max. Marks :50

Theory Min. Marks: 17

OBJECTIVE –

- To study the nature and significance of Health Geography.
- To study the health system of Human body.

Course Content		Methodology Adopted
Unit-I	Definition, Nature and Significance of Health Geography, Development of Health, Geography and its Distinction from Medical Sciences, relation with other allied science as well as social science	ICT and Green board based class room teaching individual presentation.
Unit-II	Sources of disease, incidence data and other related information primary and secondary sources. Elementary human Anatomy with special reference to respiratory and digestive system of human body.	ICT and Green board based class room teaching individual presentation.
Unit-III	Ecology of diseases and diseases epidemiology. Pathological environmental social and cultural and economic factors responsible for causation of diseases and other ill-health condition.	ICT and Green board based class room teaching individual presentation.
Unit-IV	Pollution syndrome: various types of pollution and their role in disease incidence, Air Pollution and disorders in respiratory system water borne diseases.	ICT and Green board based class room teaching individual presentation.
Unit-V	Classification of diseases. Bases of diseases and Classification. International classification of diseases. Role of WHO in classification of diseases in the world.	ICT and Green board based class room teaching individual presentation and group discussion.

OUTCOME –

- Students will be able to understand the impact of the environment on Human Health.
- Students will be aware for health.

TEXT BOOK:-

1. Mishra R.P. (2007): "Geography of Health", Concept publication Company, New Delhi.

REFERENCE BOOKS:-

1. Peter and Hazen : "An introduction to the Geography of Health "Routledge Publisher
2. Meade and Emch : "Medical Geography", Guilford Publisher, Newyork
3. Anthony C. Gatrell Susan J Elliot : "Geography of Health", Wiley publication
4. Akhtar R. and Learmonth(1985):"Geographical aspects of health and disease in India", Concept publication Company, New Delhi.

Job opportunity	Employability skill development	Local/National/UNDP Goal Achieved	Entrepreneurship Opportunity
* Population health assistant * Research consultant * Health and safety officer	* Analytical skill * Time Management * Environmental awareness * Critical thinking skill.	Zero hunger, Good health and well-being, Clean water and sanitation, Responsible consumption and production and quality education goals achieved	Health constancy

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SEMESTER- 4th
Course:- M. A. Geography
SUBJECT:-Project Work

Subject Code:- 6PRMA405
Practical Max. Marks: 100
Practical Min. Marks: 33

Table of Content

1. Project Work
 - 1.1. Introduction.
 - 1.2. Review of Related Literature.
 - 1.3. Research Methodology.
 - 1.4. Observation And Analysis of Data.
 - 1.5. Summary, Result and Suggestion.
 - 1.6. Conclusion.

Bibliography – As per style given in Reference section of text of the thesis.

2. Preparation & Presentation of Synopsis.
3. Exam, Evolution and Viva Voce.

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