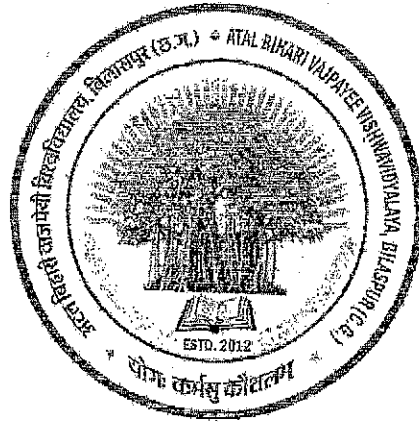


Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur (C.G.)



Scheme and Syllabus

of

M. A. (Geography) – III, IV Sem.

Program Code: MAGEOGR108

**Semester system for affiliated college
(As per LOCF and credit system)**

w.e.f. 2024-2025

(As approved by AC and EC meetings held on 16.08.2023 and 18.04.2023 respectively)



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Scheme of M.A. (Geography) Under Semester System										
PROGRAM CODE: MAGEOGR108										
III	GEOGT301	Rural Settlement Geography	3	1	-	4	80	20	100	36
	GEOGT302	Resource Geography	3	1	-	4	80	20	100	36
	GEOGT303	Research Methodology	3	1	-	4	80	20	100	36
	GEOGT304	Elective II – Bio Geography	3	1	-	4	80	20	100	36
	GEOGT305	Elective II – Geography of Tourism	3	1	-	4	80	20	100	36
	GEOGP301	Practical: Statistical Techniques and Field Survey (Physical, Social- Economic)				4	4			100
Subtotal			15	5	4	24	-	-	500	-
IV	GEOGT401	Population Geography	3	1	-	4	80	20	100	36
	GEOGT402	Urban Geography	3	1	-	4	80	20	100	36
	GEOGT403	Agriculture Geography	3	1	-	4	80	20	100	36
	GEOGT404	Elective III – Environmental Geography	3	1	-	4	80	20	100	36
	GEOGT405	Elective III – Remote Sensing	3	1	-	4	80	20	100	36
	GEOGP401	Techniques Practical: Advance Cartography				4	4			100
GEOGP401	Dessertation	-	-	-	-	-	-	-	100	
Subtotal			15	5	4	24	-	-	500	-
Total										

Abbreviatias used:

ASE: End Semester Exam

IA: Internal Assessment

Note: Dissertation (लघुशोध प्रबंध) जो विद्यार्थी प्रथम व द्वितीय सेमेस्टर परीक्षा में कुल प्राप्तांक का 60% एवं 60% से अधिक अंक प्राप्त किया है। वह चतुर्थ सेमेस्टर में किसी एक सैद्धांतिक प्रश्न पत्र के स्थान पर लघु शोध प्रबंध का चयन कर सकता है।

The student who has secured 60% and more than 60% of the total marks in the first and second semester examination He/she can opt for dissertation in place of any one theory paper in the fourth semester.

Note: Student have to opt, one paper from the pool of Elective 1st of 2nd semester, one paper from the pool of Elective 2nd of 3rd semester and Elective 3rd of 4th semester.



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Part A: Introduction			
Program: MA GEOGRAPHY	Semester: III	Year: 2	w.e.f.: 2024-2025
1.	Course Code	GEOGT301	
2.	Course Title	RURAL SETTLEMENT GEOGRAPHY	
3.	Course Type	Theory	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> The students should be trained in the interpretation of rural settlement pattern from the Topographical sheets. The students should be taken for the field visit to identify the exact form of relationship between population growths. Change in morphological Structure and environmental degradation and the settlement and should be encourage to write field report based on their observation. 	
6.	Credit Value	4	
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks:36

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hours
I.	Nature, scope, significance and development of settlement Geography. Relationship of settlement geography with other social sciences. Concept of Settlement Geography.	12
II.	Meaning, origin, evolution approaches of Rural settlement, Types of Rural settlement.	12
III.	Rural morphology- cultural land scape, elements of rural settlement in different geographical environments with special reference to India.	12
IV.	Rural House and their types, field, Pattern, origin, evolution, size, social-spatial structure Indian village, size and spacing of Rural settlement	12
V.	Morphometric of Rural settlement study of Rural settlement with reference to Chhattisgarh state, Rural Service Centre and their identification: Rural problems and planning.	12

Part C - Learning Resource
Text Books, Reference Books, E-Resources

31.7.2023



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(2)

Text Books:

1. सिंह, उजागिर नगरीय भूगोल, उत्तरप्रदेश हिन्दी ग्रन्थ अकादमी, लखनऊ, 1974
2. सिंह, ओ.पी., नगरीय भूगोल, तारा पब्लिकेशन, वाराणसी, 1979
3. तिवारी, आर.सी. अधिवास भूगोल, आर. के. बुक्स, नई दिल्ली, 2009
4. यादव, रामसुरेश, अधिवास भूगोल
5. करण एवं यादव, अधिवास भूगोल, किताब घर, कानपुर, 2002
6. मौर्या, एस.डी. अधिवास भूगोल, शारदा पुस्तक भवन, इलाहाबाद, 2009
7. त्रिपाठी एआर.डी जनसंख्या भूगोल, वसुन्धरा प्रकाशन, दाउदपुर, गोरखपुर, 2011
8. वर्मा, लक्ष्मीनारायण : अधिवास भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर, 2008

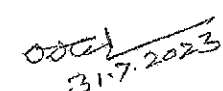
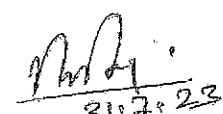
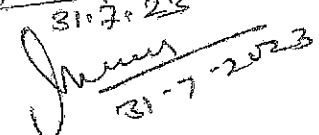
Reference Books:

1. Rural settlements - A cultural Geographical analysis, inter India publication Delhi 1985.
2. Mitra, A. : Report on House Types and Village Settlement Patterns in India. Publication, New Delhi, 1985.
3. Rao, E.N.: Strategy for Integrated Rural Development B. R. Publication Cor., Delhi.1986.
4. Singh R.L. & K.N. Singh: Readings in Rural Settlement Geography, NCSI Varanasi, 1975.

E-Resources:

- <https://www.mdpi.com>

Member of Board of Studies:

S.N.	Name	Designation	Signature
1.	Dr. D.D. Kashyap, Professor Govt. Bilasa Girl's PG College Bilaspur.	- Chairman	 31-7-2023
2.	Dr. Brij Lal Sai, Asst.Professor Govt. E.V.PG College Korba.	- Member	
3.	Dr. Versha Vaidhya, Asst.Professor Pt. Madhav Rao Sapre College Pendra Road.	- Member	
4.	Shri Kishor Minj, Asst.Professor Govt. N.K. College Kota.	- Member	 31-7-23
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8.	Prof. D.D.Sharma, Professor Himanchal Pradesh University Shimla.	- Subject Expert	

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(4)

Part A: Introduction			
Program: MA GEOGRAPHY	Semester: III	Year: 2	w.e.f.: 2024-2025
1.	Course Code	GEOGT302	
2.	Course Title	RESOURCE GEOGRAPHY	
3.	Course Type	Theory	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • By studying Resources and development, learners can learn about different types of natural resources- such as land, water, forests, minerals and energy resources. • They can also understand the concept of resources depletion and consequences of over-exploitation. • Describe ecological processes, including human impacts that influence ecosystems change, natural succession and the future sustainability of natural resources. 	
6.	Credit Value	4	
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks:36

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hours
I.	Nature, scope and significance of resources Geography Definition and concept of natural resources as related to cultural, economic and technological development tags and perceptions.	12
II.	Classification of natural resources according to renewability, increasability, availability and distribution condition.	12
III.	Characteristics and distribution pattern of major natural resources: soil, water forest, natural vegetation- biotic successions major biotic regions of the world, Biomass.	12
IV.	Characteristics and distribution pattern of major natural resources- Mineral and energy resources.	12
V.	Conservation and management of natural resources concept, methods and measurment of conservation with reference to major natural resources. Resource region of the world, and India and Chhattisgarh.	12

Part C - Learning Resource	
Text Books, Reference Books, E-Resources	
Text Books:	
1. कौशिक एस.डी. संसाधन भूगोल, रस्तोगी पब्लिकेशन्स, मेरठ।	
2. मौर्य एस.डी. संसाधन भूगोल प्रवालिका पब्लिकेशन, प्रयागराज।	
3. गौतम, अल्का – संसाधन भूगोल, शारदा पुस्तक भवन, प्रयागराज।	
Reference Books:	
1. Ali, S.A.: Resources For Future Economic Growth, Vikas Publishing House Pvt. Ltd., New	

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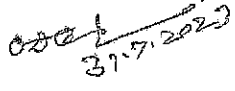
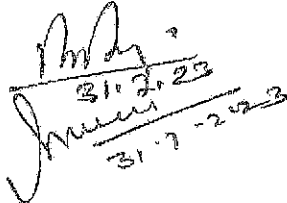
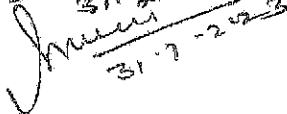
Delhi, 1979.

2. Duncan, G. "Resource Utilization and the Conservation Concept" in Readings in Economic Geography, New York, 1967.
3. Singh, K.N. and Singh, J.: Arthik Bhoogol Ke Multatva, Tara Press, Varanasi, 1982.
4. Smith, G.H. (ed.): Conservation of Natural Resources, John Wiley and Sons, New York, 1950.
5. Stringer, E. and Davies, J.S.: Geography of Resources, Carsell, London, 1966.
6. Zimmernian, E.W.: World Resources and Industries, Harper, New York.

E-Resources:

- <https://libguides.lib.cuhk.edu.hk>.

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As approved by academic council and executive council meetings



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Part A: Introduction			
Program: MA GEOGRAPHY	Semester: III	Year: 2	w.e.f: 2024-2025
1.	Course Code	GEOGT303	
2.	Course Title	RESEARCH METHDOLOGY	
3.	Course Type	Theory	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> Examining the introduction of research, motivation in research, types of research significance of research, research process and criteria of good research. To understand the research problems, selecting research problems, literature review and to study the hypothesis, its types, sources, formation of hypothesis and utility of hypothesis in scientific research. To understand the research design, need, features basic principal and developing of research plan, and sampling design and its basic types, steps, characteristics of sampling design. Study about type's data and methods of data collection and study the processing and analysis of data using different statistical methods. Understand the interpretation and report writing, techniques, precaution of interpretation, layout of research report, types of reports and oral presentation mechanics of writing a research report. 	
6.	Credit Value	4	
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks:36

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hours
I.	Research Methodology- An Overview, Procedure of Scientific Research, Defining Research Problem; Formulating Hypothesis, Research Design.	12
II.	Method of Data collection, observation, Questionnaire Schedule and Interview, Sampling: sampling methods, size of Sample.	12
III.	Processing and Analysis of Data, Processing- Editing, coding, classification and Tabulation, Analysis.	12
IV.	Measurement of Central Tendency, Dispersion, Correlation.	12
V.	Preparation of Research Reports; steps, Layout and Types of Reports.	12

Part C - Learning Resource
Text Books, Reference Books, E-Resources

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Text Books:

आहूजा राम	सामाजिक अनुसंधान, रावत पब्लिकेशन, जयपुर, 2015.
शुक्ला संतोष (संपादक)	शोध विधितंत्र एवं भौगोलिक विश्लेषण वर्धमान महावीर खुला विश्वविद्यालय, कोटा (राजस्थान) 2009
शर्मा वीरेन्द्र प्रकाश	रिसर्च मेथेडोलॉजी, पंचशील प्रकाशन, जयपुर, 2008
यादव, हीरालाल,	शोध प्रविधि एवं मात्रात्मक भूगोल 2008 दिल्ली
त्रिवेदी, आर. एन एवं डी.पी. शुक्ला.	रिसर्च मेथेडोलॉजी, कालेज बुक डिपो, जयपुर, 2013
जैन, बी. एम.,	रिसर्च मेथेडोलॉजी, रिसर्च पब्लिकेशन, जयपुर, 2012
त्रिवेदी, आर. एन.	रिसर्च मेथेडोलॉजी, कालेज बुक डिपो, जयपुर

Reference Books:

Seltiz, C.M. Jahoda, M. Deutsch and other.	Research Methods in Social Relations, Holt, New York, 1961.
Goode, W and P.K, Hatt	Methods in Social Research, Mc Graw Hill, Tokyo, 1962.
Harvey, David	Explanation in Geography, Edward Arnold, London, 1971
Chorley, R.J. and P. Haggett (ed)	Models in Geography, Methuen, London, 1967.
Minshull, R.	Introduction to Models in Geography, Longman London, 1975.
Sheskin, I.M.	Survey Research for Geographers Scientific Publisher, Jodhpur, 1987.
Kothari, C. R.	Research Methodology: Methods and Techniques, Wishwa Prakashan, 1994.
Misra H.N. and V.P. Singh	Research Methodology in Geography: Social, Spatial and Policy Dimensions, Rawat Publications New Delhi, 1998.
Har Prasad	Research Methods and Techniques in Geography, Rawat Publications, New Delhi, 1992.

E-Resources:

- <https://www.researchgate.net>

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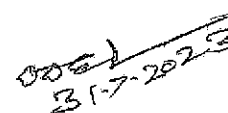
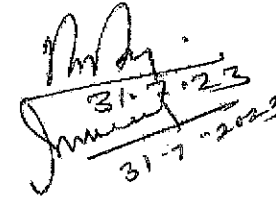
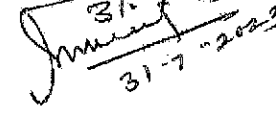
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3.	Dr. Versha Vaidhya, Asst.Professor Pt. Madhav Rao Sapre College Pendra Road.	- Member	
4.	Shri Kishor Minj, Asst.Professor Govt. N.K. College Kota.	- Member	 31-7-23
5.	Dr. Sangeeta Shukla, Asst.Professor Govt. Bilasa Girl's PG College Bilaspur	- Member	 31-7-2023
6.	Dr. Pramod Kumar Rathore, Asst.Professor Govt. Gram Bharti Vidyapeeth Hardi Bazar	- Member	
7.	Prof. Kamlesh Mishra, Professor Rani Durgawati University Jablpur	- Subject Expert	
8.	Prof. D.D.Sharma, Professor Himanchal Pradesh University Shimla.	- Subject Expert	



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Part A: Introduction			
Program: MA GEOGRAPHY	Semester: III	Year: 2	w.e.f.: 2024-2025
1.	Course Code	GEOGT304	
2.	Course Title	ELECTIVE II - BIO-GEOGRAPHY	
3.	Course Type	Theory	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • The students should be taken on field visit to local floral fauna zones; they should be acquainted with the local biogeography of the areas. • Understand of vegetation as an index of climate. • Assess of different aspects of floral and faunal provinces. 	
6.	Credit Value	4	
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks: 36

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hours
I.	Nature scope and approaches to the study of Biogeography Significance of biogeography and its relation with other disciplines. Recent trends and relevance in the present day situation.	12
II.	Factors influencing distribution of flora and fauna Concept of Biogeography region and realms; Biome's Pattern of distribution of world vegetation.	12
III.	Dispersal and migration in plants, migration of animals; types and causes - Case studies, Concept of succession and climax, Theory of Island Biogeography.	12
IV.	Soil forming processes and soil properties, global distribution of soils, soil profiles- its relation to climate and vegetation. vegetation and soils of India.	12
V.	Major biomes of the world - Tropical and Temperate forests and grasslands, Hot and Cold, Mediterranean Mangroves.	12

Part C - Learning Resource	
Text Books, Reference Books, E-Resources	
<p>Text Books:</p> <ol style="list-style-type: none"> 1. कुलश्रेष्ठ कामता प्रसाद : जैव भूगोल, किताब घर कानपुर 1964 2. होता, जीतेन्द्र कुमार : जैव भूगोल एवं पारिस्थितिक तंत्र, शताक्षी प्रकाशन, समता कालोनी, रायपुर द्वितीय संस्करण 2014, ISBN - 9789351042822 34 3. सिंह सविन्द्र : पर्यावरण भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद, 2015 	

As approved by academic council and executive council meetings



Reference Books:

1. Agrawal D.P.: Man and Environment in India through Ages, Book & Books, 1992.
2. Bradshaw, M.J.: Earth and Living Planet, ELBS. London, 1979.
3. Cox, C.D. and Moore, P.D.: Biogeography: An Ecological and Evolutionary Approach 5th edn. Blackwell, 1993.
4. Gaur. R.: Environment and Ecology of Early Man in Northern India R. B. Publication Corporation 1987.
5. Hoyt, JB. Man and the Earth, Prentice Hall, U.S.A. 1992.
6. Huggett, R.J.: Fundamentals of Biogeography, Routledge, U.S. A. 1998.
7. Illes, J.: Introduction to Zoogeography, Memillan, London, 1974.
8. Khoshoo, T. N. and Sharma. M. (eds): Indian Geosphere-Biosphere Har-Anand Publication, Delhi 1991
9. Lapedes, D.N.(ed): Encyclopedia of Environmental Science, McGraw Hill, 1974.
10. Mathur H.S.: Essentials of Biogeography, Anuj Printers, Jaipur, 1998.
11. Pears, N.: Basic Biogeography, 2nd edn. Longman, London, 1985.
12. Simmons, I.G Biogeography, Natural and Cultural, Longman, London, 1974.
13. Tivy J.: Biogeography: A Study of Plants in Ecosphere 3rd edn. Oliver and Boyd, U.S. A., 1992.
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16. Bertalanffy. L.: General Systems Theory, George Bragiller, New York, 1958.
17. Bodkin, E.: Environmental studies, Charles E Merril Pub. Co., Columbus, Ohio, 1982.
18. Chandana, R.C. Environmental Awareness, Kalyani Publishers, New Delhi, 1958.
19. Chorley, RJ, Geomorphology and General Systems Theory, U.S.G.S. Professional Paper, 500B, 1962.
20. Eyre. S.R. and Jones, G.R.J. (eds) Geography as Human Ecology, Edwares Arnold, London, 1966.
21. Komondy, E.J.: Concepts of Ecology, Prentice Hall, 1989.
22. Manners, IR and Mikesell, M.W. (eds.) Prespectives on Environment, Commission on College Geography, Publ. No. 13 Washington, D.C., 1974.
23. Nobel and Wright Environmental Science, Prentice Hall, New York, 1996.
24. Odum, E.P.: Fundamentals of Ecology, W.B. Saunders, Philadelphia, 1971.
25. Russwurm, L.H. and Sommerville, E. (eds.): Man's Natural Environment-A Systems Approach, Duxbury, Massachuselts, 1985.
26. Sharma, HS: Ranthambhore Sanctuary - Dilemma of Eco-development, Concept, New Delhi, 2000.
27. Simmons, IG: Ecology of Natural Resources, Edward Arnold, London, 1981.
28. Singh S. Environmental Geography. Prayag Publications, Allahabad, 1991.
29. Smith, R.L.: Man and his Environment: An Ecosystem Approach, Harper & Row, London, 1992.
30. UNEP Global Environmental Outlook, U.N. Pub., New ork, 1998.
31. World Resources Institute: World Resoources, (Latest Report) Washington.



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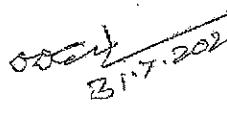
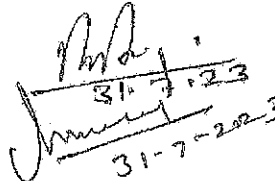
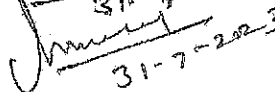
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E-Resources:

- <https://onlinelibrary.wiley.com>

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Part A: Introduction			
Program: MA GEOGRAPHY	Semester: III	Year: 2	w.e.f.: 2024-2025
1.	Course Code	GEOGT305	
2.	Course Title	ELECTIVE – II GEOGRAPHY OF TOURISM	
3.	Course Type	Theory	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	At the end of this course, the students will be able to: <ul style="list-style-type: none">• Equip with a basis understanding of nature and scope, trends and pattern of various types of tourisms.• Have sound knowledge on geographical, environmental, and socio-cultural aspects of tourism in India.• Apply the principles of Geo-tourism and analyse the prospects and Problems associate with Pilgrimage tourism.	
6.	Credit Value	4	
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks:36

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hours
I.	Basic of tourism; definition of tourism, factors affecting tourism; historical natural, socio-culture and economic motivating factors af for pilgrimages; Leisure recreation; element of tourism, tourism as an industry.	12
II.	Geography of tourism - its spatial affinity; areal and locational dimensions, comprising physical cultural historical and economic, Tourism types: cultural, eco-etho- coastal and adventure tourism and international tourism; globalization and tourism.	12
III.	Indian tourism regional dimension and tourism. tourist attraction Tourisms in Chhattisgarh. potential and possibilities of tourism in Chhattisgarh.	12
IV.	Infrastructure and support system- accommodation and supplementary, other facilities and aminites.	12
V.	Impact of tourism physical, economic, social, perceptional environmental and Indian hotel industry. Impact of globalization on tourism.	12

Part C - Learning Resource
Text Books, Reference Books, E-Resources

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Text Books:

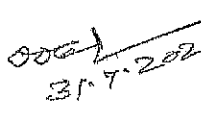
Reference Books:

1. Alan, A. Lew, (2017); New Research Paradigms in Tourism Geography, Routledge,.
2. Dhar, P.N., (2006): International Tourism: Emerging Challenges and Future Prospects, Kanishka, New Delhi.
3. Hall, M., and Stephen, P., (2006): Geography of Tourism and Recreation-Environment, Place and Space, Routledge, London.
4. Kamra, K. K., and Chand, M., (2007): fs of Tourism: Theory, Operation and Practise, Kanishka Publishers, Pune.
5. Milton, D.,(1993): Geography of World Tourism, Prentice. Hall, New York,.
6. Nelson, V., (2017): An Introduction to the Geography of Tourism, Rowman & Littlefield,.
7. Page, S. J., (2011): Tourism Management: An Introduction, Butterworth- Heinemann- USA.
8. Raj, R. and Nigel, D., (2007): Morpeth Religious Tourism and Pilgrimage Festivals Management: An International perspective by CABI, Cambridge, USA.
9. Robinson, H. A.,(1996): Geography of Tourism, Macdonald and Evans, London,.
10. Singh, Jagbir., (2014): "Eco-Tourism", I.K. International Pvt. Ltd. New Delhi, India.
11. Tourism Recreation and Research Journal, Centre for Tourism Research and Development, Lucknow.
12. Widawski, K., and Wyrzykowski, J.,(2017): The Geography of Tourism of Central and Eastern European Countries, Springer.

E-Resources:

- <https://files.eric.ed.gov>

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|----|--|---|----------------|---------------------------------|
| 4. | Shri Kishor Minj, Asst.Professor
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31-7-23 |
| 5. | Dr. Sangeeta Shukla, Asst.Professor
Govt. Bilasa Girl's PG College Bilaspur | - | Member | <i>[Signature]</i>
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Part A: Introduction			
Program: MA GEOGRAPHY	Semester: III	Year: 2	w.e.f: 2024-2025
1.	Course Code	GEOG301	
2.	Course Title	STATISTICAL TECHNIQUE AND FIELD SURVEY	
3.	Course Type	Practical	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • Students are able to know the product moment and correlation coefficients of sample data. • Conduct proper fieldwork for the collection of primary data to bring out grassroots realities. • Prepare a report based on field data. 	
6.	Credit Value	4	
7.	Total Marks	100	Min Passing Marks:36

Part B: Content of the Course	
Total No. of Hours: 120	
Unit	Topics
•	Statistical Technique: Running mean, Mean centre, Correlation, Probability, Hypothesis Testing- Chi Test and T Test.
•	Field survey: Micro Region basis physical, socio-Economic survey about project report in 50 page.
•	Excursion.
•	<p>a) In the practical examination the following shall be allotment of time and marks.</p> <p>i) Lab work (up to two hours) : 30% Marks</p> <p>ii) Project Report : 40% + 10% Marks</p> <p>iii) Excursion Report : 10% Marks</p> <p>iv) Viva on I and III : 10% Marks</p> <p>b) The external and internal examiners shall jointly submit marks.</p> <p>All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers</p>

Part C - Learning Resource	
Text Books, Reference Books, E-Resources	
Text Books:	
1.	मॉक हाउस तथा विलिकौन्सन अनु.प्रो. प्रेमचन्द्र अग्रवाल : मानचित्र तथा आरेख, म.प्र. हिन्दी ग्रंथ अकादमी।
2.	हीरालाल प्रयोगिक भूगोल, किताब घर, कानपुर।
3.	मिश्र पी.एल. प्रयोगात्मक भूगोल, विश्वभारती पब्लिकेशन, नई दिल्ली, 2013
4.	शर्मा जे.पी. प्रायोगिक भूगोल रस्तोगी पब्लिकेशन, मेरठ।
5.	चोहान पी.आर प्रयोगात्मक भूगोल।

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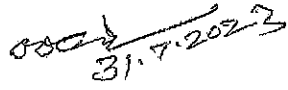

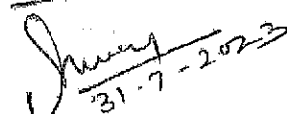
6. यादव हीरालाल, प्रायोगिक भूगोल।
7. चंद्राकर पी.एल. सर्वेक्षण विधि तंत्र एस.शारदा पब्लिकेशन बिलासपुर।
8. चंद्राकर पी.एल. प्रायोगिक भूगोल संकल्प पब्लिकेशन, बिलासपुर।

Reference Books:

1. Davis, R.C. & E.S. Forte : surveying : Theory and Practical.
2. Kanetkar, T.R. & S.V. Kulkarni: Surveying and leveling part I & II A.V.G. Prakashan, Poona.
3. Monkhouse F.J. & H.R. Wilkinson: Maps and Deagrms, Methuen, London.
4. Singh L.R.: Practical Geography.

E-Resources:

Member of Board of Studies:

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1.	Dr. D.D. Kashyap, Professor Govt. Bilasa Girl's PG College Bilaspur.	- Chairman	 31.7.2023
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Part A: Introduction			
Program: MA GEOGRAPHY		Semester: IV	Year: 2
w.e.f.: 2024-2025			
1.	Course Code	GEOGT401	
2.	Course Title	POPULATION GEOGRAPHY	
3.	Course Type	Theory	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • Learn the role of demography and population studies as a distinct field of human geography. • Have sound knowledge of key concept, different Components of population along with its drivers. • Examine population dynamics and characteristics with contemporary issues. 	
6.	Credit Value	4	
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks:36

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hours
I.	Population Geography: 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 the India. Sources of Population Data, Census, and its history.	12
II.	The concept of Population density and its types, factors, affecting population distribution, population in the world with special reference to Europe and Asia, Distribution in India, Population Growth in India.	12
III.	Population Theories: Malthusian theory & demography transition. Population Composition - In terms of age and sex rural and urban educational status, and occupational structure, significance of these elements in population analysis and factor affecting their Composition in a population board world pattern and detailed special pattern in India.	12
IV.	Population Dynamics - Fertility and mortality: significance and factor Indicators and rates. Migration of population - Causes, characteristics and types, methods of estimating value of Internal migration, Importance international migration of the world, internal migration in India.	12
V.	Population and Resource: Population - Resource regions. Population Regions; Population Regions of India, Population Concept: optimum over population, under population. Population policy in India.	12

Part C - Learning Resource
Text Books, Reference Books, E-Resources

As approved by academic council and executive council meetings



Text Books:

1. बघेल, अनुसुइया : अनुसूचित जातियों एवं अनुसूचित जनजातियों में प्रजननता प्रतिरूप छत्तीसगढ़ राज्य के रायपुर संभाग के विशेष संदर्भ में, पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर, 2002
2. बघेल, अनुसुइया : शिशु मर्त्यता : सिंधई पब्लिशर्स एण्ड डिस्ट्रीब्यूटर रायपुर, 2004,
3. शर्मा, सरला : औद्योगिक नगरों में जनसंख्या आप्रवास (भिलाई एवं कोरबा नगर के विशेष संदर्भ में रविशंकर शुक्ल विश्वविद्यालय, रायपुर, 2002
4. शर्मा, सरला : छत्तीसगढ़ बेसिन में ग्रामीण शिशु मर्त्यता प्रतिरूप प रविशंकर शुक्ल वि. वि. रायपुर, 2007
5. पंडा, बी.पी. : जनसंख्या भूगोल मध्यप्रदेश हिन्दी ग्रंथ अकादमी भोपाल, 2007
6. ओझा, रघुनाथ : जनसंख्या भूगोल, प्रतिभा प्रकाशन, कानपुर, 1992
7. हीरालाल : जनसंख्या भूगोल, वसुन्धरा प्रकाशन, गोरखपुर 1996
8. चन्दना, आर.सी. : जनसंख्या भूगोल, आर. के. बुक्स, नई दिल्ली. 2008.
9. त्रिपाठी, रामदेव : जनांकिकी और जनसंख्या अध्ययन, आर. के बुक्स, नई दिल्ली, 2008
10. शर्मा, सरला : नगरीय शिशु मर्त्यता होरीजन बुक्स, नई दिल्ली, 2015.
11. मौर्य, एस. डी. : जनसंख्या भूगोल, शारदा पुस्तक भवन, इलाहाबाद
12. त्रिपाठी, रामदेव : जनसंख्या भूगोल वसुन्धरा प्रकाशन, गोरखपुर, 2006.

Reference Books:

1. Bilasborruw. Richard li and Daniel Hogan, Population and Deforestation in the Humid Tropics, International Union for the Scientific Study of Population, Belgium 1999.
2. Boglia, D.J. Principles in Demography, John Wiley, New York 1969.
3. Bose. Ashish el at. Population in India's Development (1947-2000); Vikas Publishing House, New Delhi, 1974.
4. Census of India, India: A State Profile, 1991.
5. Chandna. R. C. Geography of Population, Concept, Determinants and Patterns. Kalyani Publishers, New York. 2000.
6. Clarke. John 1. Population Geography, Pergamon Press, Oxford, 1973.
7. Crook, Nigel Principles of Population and Development Pergmaon Press, New York 1997.
8. Daugherty, Helen Gin, Kenneth C.W. Kammeyir, An Introduction to Population (Second Edition), The Guilford Press, New York, London, 1998.
9. Garnier. B.1. Geography of population Longrrian, London 1970.
10. Koclhar, Rakesh. The Veclie People: Their History and Geography Orient I ongman Ltd., New Delhi, 2000.
11. Mamoria. C.B. India's Population Problem, Kitab Mahal New Delhi, 1981.
12. Mitra, Ashok India's Population: Aspects of Quality and (control Vol 1 & 11. Abhiman Publications. New Delhi, 1978.
13. Premi. M.K. India's Population Heading Towards a Billion, B.R... Publishing Corporation 1991.
14. Srinivasan, K. and M. Vlassoff, Population Development Nexus in India :Challenges for



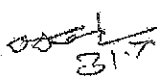
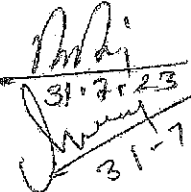
the New Millennium Lata Mc Graw-Hill, New Delhi, 2001.

15. Srinivasan K. Basic Demographic Techniques and Applications Sage. Publications, New Delhi, 1998.
16. Sundaram KV and Sudesh Nangia. (ed.) Population Geography, Henlage Publications, Delhi, 1986.
17. UNDP Human Development Report, Oxford University Press, Oxford, 2000.
18. United Nations, Methods for Projections of urban and Rural Population No. Vill, New York. 1974.
19. Woods R., Population Analysis in Geography Longman, London, 1979.
20. Zelinsky Wilbur. A Prologue to Population Geography. Prentic Hall, 1966.

E-Resources:

- * <https://worldpopulationhistory.org>

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4.	Shri Kishor Minj, Asst.Professor Govt. N.K. College Kota.	- Member	 31-7-23 31-7-2023
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Part A: Introduction			
Program: MA GEOGRAPHY	Semester: IV	Year: 2	w.e.f.: 2024-2025
1.	Course Code	GEOGT402	
2.	Course Title	URBAN GEOGRAPHY	
3.	Course Type	Theory	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • Comprehend the fundamentals of urbanization, morphology and hierarchy theories that explain the process of urban development. • Be conversent with the morphology of Indian cities. • Be Aware about the issues faced in mega cities. • Have insight in to the master plans, renewal plans and urban local bodies 	
6.	Credit Value	4	
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks:36

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hours
I.	Nature and Scope of Urban Geography: Approaches and recent trends in geography. Origin and growth of urban Settlements. Ancient, medieval and Modern Town. world growth of urbanisation, Urbanisation in India.	12
II.	Size and distribution of Towns - Rank size rule Central place theory, Christaller and Losch. Urban heirarchy. Urban expansion - Basic and hon Basic concept. The Urban - Rural Fring, Umland.	12
III.	General nature of city structure: Centrifugal and centripetal Forces in urban Geography. Theory of urban structure - Concentric Zone theory, sector and multicentred Theory.	12
IV.	General nature of city structure - Internal structure morphology - CBD. Urban Function and Functional classification of Towns, C.D. Harris and J. Nelson. Contribution of Indian Geographers.	12
V.	Contemporary Urbon issues: - Urban slum and environmental problems, urban policy and planning. in India. Green belts, Metropolitan Planning.	12

Part C - Learning Resource
Text Books, Reference Books, E-Resources

08/07/2023



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कोनी पुलिस थाना के सामने, बिलासपुर-रतनपुर मार्ग, कोनी, बिलासपुर (छ.ग.) 495009

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Text Books:

1. बंसल आर.के.— नगरीय भूगोल।
2. ओमप्रकाश सिंह — नगरीय भूगोल।
3. एस.डी. मौर्य — नगरीय भूगोल, शारदा प्रब्लिकेशन, प्रयागराज।

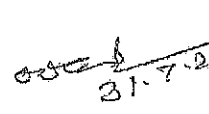
Reference Books:

1. Carter: The study of Urban Geography Edward Arnold Publishers London 1972.
2. Chroley, R.J.O. Haggstt.P. (ed.) Models in Geography, Methuen, London 1966.
3. Dickinson R.E.: City and Region Routledge. London, 1964.
4. Dayer D.J: (ed) The city as a acentre of change in Asia University of Hond Kong Press, Hongkong 1971.
5. Gibbs J.P.: Urban Research methods D, Van Nostrand Co. Inc. Princeton, New Jersey 1961.
6. Hall P. Urban and Regional Planning, Routledge London 1992.
7. Hauser, Philips M and scnnore Leo F. (Ed.) The study of urbanization, Wiely, New York, 1965.
8. James, P.E. and Jones C.F. (eds), American Geography, Inventroy and Prospect, Syracuse University APress, Syracurse, 1954.
9. Kundu A; Urban Development and Urban Geography, Unviersity of Chicago Press Chicago, 1955.
10. Mumford, L: Culture of Cities, Macmillan & Co. London 1958.
11. Mumford, L. Culture of Cities of Mcmillan&Co. London 1958.
12. Nangia, Sudesh Delhi Metropolitan Region: A study in settlement geography, Rajesh Publicaton 1976.

E-Resources:

- * <https://www.sciencedirect.com>

Member of Board of Studies:

S.N.	Name	Designation	Signature
1.	Dr. D.D. Kashyap, Professor Govt. Bilasa Girl's PG College Bilaspur.	- Chairman	 31.7.2022
2.	Dr. Brij Lal Sai, Asst.Professor Govt. E.V.PG College Kerba.	- Member	
3.	Dr. Versha Vaidhya, Asst.Professor	- Member	

As approved by academic council and executive council meetings



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| 4. | Shri Kishor Minj, Asst.Professor
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| 5. | Dr. Sangeeta Shukla, Asst.Professor
Govt. Bilasa Girl's PG College Bilaspur | - | Member |
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Govt. Gram Bharti Vidyapeeth Hardi Bazar | - | Member |
| 7. | Prof. Kamlesh Mishra, Professor
Rani Durgawati University Jablpur | - | Subject Expert |
| 8. | Prof. D.D.Sharma, Professor
Himanchal Pradesh University Shimla. | - | Subject Expert |

Amby
31.7.23
Sharma
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Part A: Introduction			
Program: MA GEOGRAPHY	Semester: IV	Year: 2	w.e.f.: 2024-2025
1.	Course Code	GEOGT403	
2.	Course Title	AGRICULTURE- GEOGRAPHY	
3.	Course Type	Theory	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • Student will be able to recognize and examine the relationship between impute and outputs in their agricultural field to make effective and profitable decisions • Student will understand and analyse the current events and issues that are occurring in agriculture and how they affect your future in agriculture. 	
6.	Credit Value	4	
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks:36

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hours
I.	Nature, scope, significance and development of Agricultural Geography. Approaches to the study of agricultural geography; Commodity systematic and Regional systems. Origin and dispersal of agriculture. I. sources of agricultural data.	12
II.	Determinants of agricultural land use - Physical, economic, social and technological land holding and land tenure systems. Land reforms, land use. Agriculture policy and planning. Selected agricultural concepts and their measurement: Cropping Pattern, Crop concentration intensity of cropping, diversification and specialization agricultural productivity.	12
III.	Theories of Agricultural Location Von thune's theory of - agricultural location and its recent modification theories of diffusion and adoption of innovations, Agricultural Typology - Kostrovickie's method, Agricultural Region concept. and method, Wittlesey's classification of agricultural regions.	12
IV.	Agricultural in India, Regional pattern of productivity in India, Green Revolution white & blue revolution specific problems of Indian agricultural. Agriculture policy in India. Role of irrigation, fertilizer, insecticides and pesticides.	12
V.	Contemporary Issues: Food, nutrition and hunger Food aid Programmers - Market, Food processing center, Soil testing centers, Bio compost, E marketing, Agriculture award, kisan Credit card (kcc) Narva, Garva, Ghurva, Bari Yojana, in Chhattisgarh.	12

Part C - Learning Resource
Text Books, Reference Books, E-Resources

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(2)

Text Books:

1. बघेल अनुसुइया : कृषि भूगोल होरीजन्स बुक्स, नई दिल्ली, 2015
2. जोशी, वाय जी : नर्मदा बेसिन का कृषि भूगोल, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल, 1972
3. कुमार प्रमिला : कृषि भूगोल, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल, 2008
4. हुसैन, माजिद : कृषि भूगोल, रावत पब्लिकेशन, जयपुर, 2000
5. कुमार, प्रमीला एवं श्री कमल शर्मा : कृषि भूगोल, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल, 1985

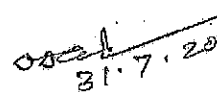
Reference Books:

1. Bayliss Smith. IP: The Ecology of Agricultural Systems. Cambridge University London. 1987.
2. Berry, B.J.L et al. The Geography of economic Systems. Prentice Hall, New York, 1976.
3. Brown, L.R.. The Changing World Food Prospects - The Nineties and Beyond, World Watch Institute, Washington D.C., 1990.
4. Dyson, T. Population and Food - Global Trends and Future Prospects. Routledge. London. 1996.
5. Gregor, H.P.: Geography of Agriculture Prentice Hall, New York, 1970.
6. Grigg, D.B. The Agricultural Systems of the World. Cambridge University Press, New York 1974.
7. Hartshorn, TN. and Alexander, J.W: Economic Geography, Prentice Hall, New Delhi, 1988.
8. Mannion, A.M.: Agriculture and Environment Change, John Wiley, London, 1995.
9. Mitra, Manju: Agriculture Geography of Chhattisgarh Basin, Sahitya Ratnalaya Kanpur, 1980.
10. Morgan W.B. and Norton, R.J.C.: Agricultural Geography. Mathuen, London, 1971.
11. Morgan, W.B. Agriculture in the Third World - A Spatial Analysis. Westview Boulder, 1978.
12. Sauer, CO.: Agricultural Origins and Dispersals, M.I.T. Press, Mass, USA, 1988.
13. Singh, J. and Dhillon, S.S.: Agricultural Geography. Tata McGraw Hill' Pub., Delhi, 1988.
14. Tarrant, JR.: Agricultural Geography. Wiley, New York, 1974.

E-Resources:

- <https://ndl.ethernet.edu.et/bit>

Member of Board of Studies:

S.N.	Name	Designation	Signature
1.	Dr. D.D. Kashyap, Professor Govt. Bilasa Girl's PG College Bilaspur.	Chairman	 31.7.2023

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- | | | | |
|----|--|---|----------------|
| 2. | Dr. Brij Lal Sai, Asst.Professor
Govt. E.V.PG College Korba. | - | Member |
| 3. | Dr. Versha Vaidhya, Asst.Professor
Pt. Madhav Rao Sapre College Pendra Road. | - | Member |
| 4. | Shri Kishor Minj, Asst.Professor
Govt. N.K. College Kota. | - | Member |
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Govt. Bilasa Girl's PG College Bilaspur | - | Member |
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| 7. | Prof. Kamlesh Mishra, Professor
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| 8. | Prof. D.D.Sharma, Professor
Himanchal Pradesh University Shimla. | - | Subject Expert |

Handwritten signature and date:
31.7.23
31.7.2023



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Part A: Introduction				
Program: MA GEOGRAPHY		Semester: IV	Year: 2	w.e.f.: 2024-2025
1.	Course Code	GEOGT404		
2.	Course Title	ELECTIVE III - ENVIRONMENT GEOGRAPHY		
3.	Course Type	Theory		
4.	Pre-requisite (if any)			
5.	Course Learning Outcomes (CLO)	At the end of this course, the students will be able to: <ul style="list-style-type: none">Analyze the Earth an integrated system by examining the relationship between the environment, resources and the decision making processes that impact flows, interactions and exchanges at different spatial and temporal scales.Collect and analyse different sources of data to inform and drive management policies and strategies.		
6.	Credit Value	4		
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks:36	

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hours
I.	Environment: meaning definition, scope, concept and theories related to environment. Environment and its components, classification, characteristics and their interdependent relationship development of the environmental studies and their approaches.	12
II.	Environment and development: Ecological concepts, Geography as human ecology, Ecosystem: meaning, definition concept and components. Main terrestrial ecosystems of the world- forests and agriculture.	12
III.	Biodiversity: Biodiversity and its conservation, preservation conservation of the ecosystem through resources management, Biodiversity of India. National parks of India, Global warming, Green house effects and its Impact on earth. Types of Environment degradation, Process and causes of degradation.	12
IV.	Environmental Pollution: meaning, definition nature and types- air, water, noise and others. Ecological impacts of pollution. Role of man in prevention of pollution.	12
V.	Environmental Legislation: The Stockholm Conference, Earth Summit, Environmental Laws in India: The wild Life Act, Forest Act, Environmental Protection Act and National Environment Tribunal Act. Environmental education and people's Participation.	12

Part C - Learning Resource	
Text Books, Reference Books, E-Resources	

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Text Books:

1. अवस्थी एन एम एवं आरपी तिवारी पर्यावरण भूगोल, मध्यप्रदेश ग्रंथ अकादमीए भोपाल।
2. नेगी, पी. एस. परिस्थितिकीय विकास एवं पर्यावरण भूगोल, रस्तोगी एन्ड कम्पनी, मेरठ, 1995।
3. रघुवंशी अरुण और चन्द्रलेखा रघुवंशी: पर्यावरण तथा प्रदूषण, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल, 1989।
4. सविन्द्र सिंह पर्यावरण भूगोल, प्रयाग पुस्तक सदन इलाहाबाद, 1993।
5. शर्मा, वी एल पर्यावरण साहित्य भवन, आगरा, 1992।
6. तिवारी, विजय कुमार पर्यावरण और परिस्थितिकी, हिमालय पब्लिशिंग हाउस, दिल्ली 1998।
7. तिवारी विजय कुमार, पर्यावरण अध्ययन, हिमालय पब्लिशिंग हाउस, दिल्ली 1998।
8. प्रसाद गायत्री, गौतम अल्का, पर्यावरण भूगोल।
9. रामकुमार गुर्जर एवं जाट बी.सी., पर्यावरण अध्ययन, पंचशील प्रकाशन, जयपुर।
10. व्यास, हरिशचन्द्र पारिस्थितिकी एवं पर्यावरण, पंचशील प्रकाशन, जयपुर।
11. आसरे, राम, पर्यावरण भूगोल, आर के पब्लिकेशन, नई दिल्ली, 2009।
12. मौर्य एस.डी. संसाधन एवं पर्यावरण, प्रयाग पुस्तक भवन, इलाहाबाद, 2006।
13. राव, बी.पी. संसाधन एवं पर्यावरण, वसुन्धरा प्रकाशन, गोरखपुर, 2010

Reference Books:

1. Agrawal, Anil and Sunita Narain. Dying Wisdom: The Fourth citizen Report. Centre for Science and Environment, New Delhi, 1998.
2. Burton I.; R.W. Kates & G.F. Whiley. The Environment as Hazards. O. U.P. New York. 1978, Carledge, Bryen. Population and the Environment, O.U.P., New York, 1995.
3. Chandna, R.C. Environmental Awareness Kalyani Punlishers, New Delhi, 1998.
4. Dawson, J. and J.C. Doomkamp, eds.: Evaluating the Human Environment Edward Arnold, London, 1975.
5. Detwyler, JR.: Man.s impact on Environment. Pelican, 1970.
6. Edington, J.M. & M.A. Edington: Ecology and Environmental Planning. Chapmap & Hall, London, 1977.
7. Goudie, Andrew. The Human Impact on the Natural Environment, Blackwell Oxford, U.K. 199.
8. Jain. R. K.. L.V. Urban and G.S. Stacy; Environmental Impact Analysis-A New Dimension in Decision-Making. Van Norstrand Reinhold Co. New York, 1977.
9. Khoshoo, T.N. Environmental Concepts and Strategies. Ashish Publishing House, New Delhi.
10. Mohan, M. Ecology and Development. Rawat Publications; Jaipur, 2000.
11. Munn, R.E. Environmental Impact Assessment: Principles and Procdures. John Wiley & Sons, New York, 1979.
12. Narain. Sunita, The Citizen Fifth Report. Centre for Science and Environment, New Delhi 2003.
13. Mukherji, A and V K. Agnihotri Environment and Development Concept Pu. Co. New

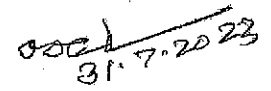
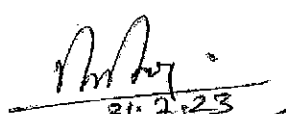
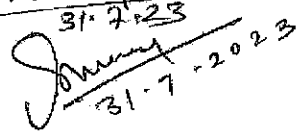


- Delhi. 1993.
14. Rudig Wolfgang. Environmental Policy Edward Elger Publishing Ltd. UK. 1998.
 15. Saxena, H.M. Environmental Management. Rawat Publications, Jaipur. 2000.
 16. Sharma, B.L. & Puar P: Global Environmental Challenges. Rohini Books, Publishers & Distributors. Jaipur, 2004.
 17. Singh, K.N. and D.N. Singh: Population Growth, Environment and Development Issues. Impacts and Responses. Environment & Development Study Centre, Varanasi, 1991.
 18. Singh. R. B. and S. Mishra: Environmental Law in India: Issues and responses, Concept Pub. Co. New Delhi. 1966.
 19. Singh, S. Environmental Geography. Prayag Pustak Sadan, Allahabad, 2000.
 20. Smith, R.L.: Man and his Environment: An Ecosystem Approach. Harper & Row. London. 1992.
 21. UNEP: Global Environmental Outlook. U.N. Pub. New York.

E-Resources:

- <https://press.uchicago.edu>.
- <https://www.crackias.com>.

Member of Board of Studies:

S.N.	Name	Designation	Signature
1.	Dr. D.D. Kashyap, Professor Govt. Bilasa Girl's PG College Bilaspur.	Chairman	 31.7.2023
2.	Dr. Brij Lal Sai, Asst. Professor Govt. E.V.PG College Korba.	Member	
3.	Dr. Versha Vaidhya, Asst. Professor Pt. Madhav Rao Sapre College Pendra Road.	Member	
4.	Shri Kishor Minj, Asst. Professor Govt. N.K. College Kota.	Member	 31.7.23
5.	Dr. Sangeeta Shukla, Asst. Professor Govt. Bilasa Girl's PG College Bilaspur	Member	 31.7.2023
6.	Dr. Pramod Kumar Rathore, Asst. Professor Govt. Gram Bharti Vidyapeeth Hardi Bazar	Member	
7.	Prof. Karnlesh Mishra, Professor Rani Durgawati University Jablpur	Subject Expert	
8.	Prof. D.D.Sharma, Professor Himanchal Pradesh University Shimla.	Subject Expert	

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Part A: Introduction			
Program: MA GEOGRAPHY	Semester: IV	Year: II	w.e.f.: 2024-2025
1.	Course Code	GEOGT405	
2.	Course Title	ELECTIVE III - REMOTE SENSING TECHNIQUES	
3.	Course Type	Theory	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> To understand the types of remote sensing and types of Platforms in remote sensing. To get an knowledge about satellite sensor and types of sensors and their functions and characteristics. Understand the data product, types of data product and its application and uses remote sensing. 	
6.	Credit Value	4	
7.	Total Marks	Internal Marks: 20 External Marks: 80	Min Passing Marks:36

Part B: Content of the Course		
Total No. of Hours: 60		
Unit	Topics	No. of Hour
I.	Basics of Remote Sensing: definition and scope; historical development of remote sensing as a technology- Relevance of remote sensing in geography, Concepts and basics: Energy source, energy and radiation Principles, energy interaction in the atmosphere and earth surface features.	12
II.	Remote sensing system: Platform Sensor and radiation records. Microwave sensing interpretation of SLAR imageries, Data Products.	12
III.	Remote sensing Satellite: Platforms LANDSAT, SPOT, MOAA, RADARSAT, IRS, INSAT, Principles and geometry of scanner and CCD arrays, Orbital characteristics and data products- MSS, TM, LISS I & II SPOTPLA & MLA, SLAR. Recent trends in satellite & sensor system (world & India)	12
IV.	Image Processing: Types of imagery, techniques of visual interpretation, ground verification transfer of interpreted thematic information to base maps-digital processing: rectification and restoration, image enhancement - contrast manipulation, classification, Supervised and unsupervised, Post-classification analysis and accuracy, assessment. Selection of appropriate data for different application.	12
V.	Application: Air photo and image interpretation: mapping land use, land cover land evaluation, urban land use land form and its processes, weather studies and studies of water resources: integration of Remote sensing and GLS. Remote sensing and hazards management remote sensing and environmental man management.	12

Part C - Learning Resource

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Text Books, Reference Books, E-Resources

Text Books:

1. चौनियाल, देवी दत्त : सुदुर संवेदन एवं भौगोलिक सूचना प्रणाली, शारदा पुस्तक भवन, इलाहाबाद।

Reference Books:

1. American Society of Photogrammetry: Manual of Remote Sensing. ASP, Falls Church V.A., 1983.
2. Barrett E.C. and L.F. Curtis: Fundamentals of Remote Sensing and Air Photo Interpretation on Memillan, New York, 1992.
3. Compbell J.: Introduction to Remote Sension, Guilford, New York, 1989.
4. Curran, Paul J.: Principles of Remote Sensing. Longman, London, 1985.
5. Hord R.M.: Digital Image Processing of Remotely Sensed Date, Academic, New York, 1983.
6. Luder D., Aerial Photography Interpretation: Principles and Application, CcGraw Hill, New York, 1959.
7. Pratt W.K. Digital Image Processing. Wiley, New York, 1978.
8. Rao D. P. (eds.). Remote Sensing for Earth Resources, Association of Exploration Geophysicist, Hyderabad. 1998.
9. Thomas M. Lollsand and Ralph W. Kefer, Remote Sensing and Image Interpretation, Wiley & sons, New York, 1994.
10. Aronoff S. Geographic Information Systems: A. Management Perspective, Publication Offiawa, 1989.
11. Burrough P.A. Principles of Geographic Information Systems for Land Reson Assessment Oxford University Press, New York, 1986.
12. Fraser Taylor D.R. Geographic information Systems. Pergamor Press, Oxford 1990.
13. Maquire D.J.M.F. Goodchild and D.W. Rhind (eds.). Geographic information System Principles arid Application. Taylor & Francis, Washington, 1991.
14. Mark S. Monmonier. Computer assisted Cartography, Prentice-Hall, Englewood Cliff, Jersey, 1982.
15. Penquet D. J. and D.F. - Marble, Introductory Reading in Geographic. Information System Taylor & Francis, Washington, 1990.
16. Star J. and J. Estes, Geographic Information Systems: An Introduction, Prentice Englewood Cliff, New Jersey, 1994.

E-Resources:

- <https://kanchiuniv.ac.in>
- <https://www.ndpi.com>

Member of Board of Studies:

S.N.	Name	Designation	Signature
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कोनी पुलिस थाना के सामने, बिलासपुर-रत्नपुर मार्ग, कोनी, बिलासपुर (छ.ग.) 495009

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1. Dr. D.D. Kashyap, Professor - Chairman
Govt. Bilasa Girl's PG College Bilaspur.
2. Dr. Brij Lal Sai, Asst.Professor - Member
Govt. E.V.PG College Korba.
3. Dr. Versha Vaidhya, Asst.Professor - Member
Pt. Madhav Rao Sapre College Pendra Road.
4. Shri Kishor Minj, Asst.Professor - Member
Govt. N.K. College Kofa.
5. Dr. Sangeeta Shukla, Asst.Professor - Member
Govt. Bilasa Girl's PG College Bilaspur
6. Dr. Pramod Kumar Rathore, Asst.Professor - Member
Govt. Gram Bharti Vidyapeeth Hardi Bazar
7. Prof. Kamlesh Mishra, Professor - Subject Expert
Rani Durgawati University Jablpur
8. Prof. D.D.Sharma, Professor - Subject Expert
Himanchal Pradesh University Shimla.

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31.7.2023

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31.7.23

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31.7.2023



अटल बिहारी वाजपेयी विश्वविद्यालय, बिलासपुर (छ.ग.)

कोनी पुलिस थाना के सामने, बिलासपुर-रतनपुर मार्ग, कोनी, बिलासपुर (छ.ग.) 495009

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Part A: Introduction			
Program: MA GEOGRAPHY	Semester: IV	Year: 2	w.e.f: 2024-2025
1.	Course Code	GEOGP401	
2.	Course Title	ADVANCE CARTOGRAPHY	
3.	Course Type	Practical	
4.	Pre-requisite (if any)		
5.	Course Learning Outcomes (CLO)	At the end of this course, the students will be able to: <ul style="list-style-type: none">• Use Data representation by various techniques of map.• To get an knowledge about satellite sensor and types of sensor and their functions and characteristics.• To understand the types of remote sensing.• Understand the data product and its applications and uses in remote sensing.• GIS applied in the various kinds of field Agriculture, watershed-planning, and land use planning.	
6.	Credit Value	4	
7.	Total Marks	100	Min Passing Marks:36

Part B: Content of the Course	
Total No. of Hours: 120	
Unit	Topics
•	Thematic maps: class intervals, choropleth maps, Isopleth map, Dot map, Flow map.
•	Remote sensing: Fundamental of Remote sensing, components of Image Interpretations. Interpretation of physical and cultural details and preparation of land use map using IRS Image.
•	GIS: An overview of GIS Software, Elements of GIS, GPS Computer Cartography: Advantage of Computer Cartography, Creation of Graphs and Maps.
•	(a) In the practical examination the following shall be the allotment of time and marks (i) Practical record : 20% (ii) Lab work (up to Four hours) : 70% (ii) Viva on i. & ii. Above : 10% (b) The external and internal examiners shall jointly submit marks. (c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.

Part C - Learning Resource
Text Books, Reference Books, E-Resources

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Text Books:

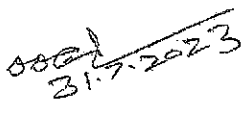
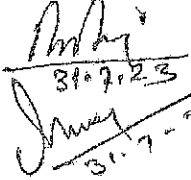
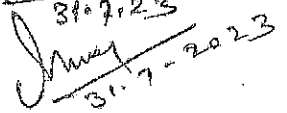
1. माँक हाउस तथा विलिकौन्सन अनु.प्रो. प्रेमचन्द्र अग्रवाल : मानचित्र तथा आरेख, म.प्र. हिन्दी ग्रंथ अकादमी।
2. हीरालाल प्रयोगिक भूगोल, किताब घर, कानपुर।
3. मिश्र पी.एल. प्रयोगात्मक भूगोल, विश्वभारती पब्लिकेशन, नई दिल्ली, 2013
4. शर्मा जे.पी. प्रायोगिक भूगोल रस्तोगी पब्लिकेशन, मेरठ।
5. चोहान पी.आर प्रयोगात्मक भूगोल।
6. यादव हीरालाल, प्रायोगिक भूगोल।
7. चंद्राकर पी.एल. सर्वेक्षण विधि तंत्र एस.शारदा पब्लिकेशन बिलासपुर।
8. चंद्राकर पी.एल. प्रायोगिक भूगोल संकल्प पब्लिकेशन, बिलासपुर।

Reference Books:

1. Davis, R.C. & E.S. Forte : surveying : Theory and Practical.
2. Kanetkar, T.R. & S.V. Kulkarni: Surveying and leveling part I & II A.V.G. Prakashan, Poona.
3. Monkhouse F.J. & H.R. Wilkinson: Maps and Deagrms, Methuen, London.
4. Singh L.R.: Practical Geography.

E-Resources:

Member of Board of Studies:

S.N.	Name	Designation	Signature
1.	Dr. D.D. Kashyap, Professor Govt. Bilasa Girl's PG College Bilaspur.	- Chairman	 31.7.2023
2.	Dr. Brij Lal Sai, Asst.Professor Govt. E.V.PG College Korba.	- Member	
3.	Dr. Versha Vaidhya, Asst.Professor Pt. Madhav Rao Sapre College Pendra Road.	- Member	
4.	Shri Kishor Minj, Asst.Professor Govt. N.K. College Kota.	- Member	 31.7.23
5.	Dr. Sangeeta Shukla, Asst.Professor Govt. Bilasa Girl's PG College Bilaspur	- Member	 31.7-2023
6.	Dr. Pramod Kumar Rathore, Asst.Professor Govt. Gram Bharti Vidyapeeth Hardi Bazar	- Member	
7.	Prof. Kamlesh Mishra, Professor Rani Durgawati University Jablpur	- Subject Expert	
8.	Prof. D.D.Sharma, Professor Himanchal Pradesh University Shimla.	- Subject Expert	

As approved by academic council and executive council meetings