

BUNDELKHAND UNIVERSITY, JHANSI
COURSE STRUCTURE M.A./M.Sc. Geography (CBCS)
(Under NEP-2020)

Course Structure with Marks Distribution



(Dr. PRIYI JAISWAL)

2 Years Semester Course (CBCS) Outline

SEMESTER - 1

Course Code	Core / Elective	Course Title	Credit	Total hours	T/P	Marks=100	
						Internal	External
	CORE-1	Geomorphology	4	60	T	25	75
	CORE-2	Geographical Thought	4	60	T	25	75
	CORE-3	Physical Geography of India	4	60	T	25	75
	CORE-4	Population Geography	4	60	T	25	75
	CORE-5	Practical	4	60	T	25	75
	Minor-1	1. Climatic Change and Environmental Degradation Or 2. Climate change	2+2=4	60+60	P	25	75
		Research Project/Survey/ Industrial/Field training	4	60	---	25	75
TOTAL			28			700	




(Dr. PRITI JAISWAL)

SEMESTER - 2

Course Code	Core / Elective	Course Title	Credit	Total hours	T/P	Evaluation M.M.=100	
						Internal	External
	CORE-6	Climatology	4	60	T	25	75
	CORE-7	Advanced Economic Geography	4	60	T	25	75
	CORE-8	Socio-Economic Geography of India	4	60	T	25	75
	CORE- 9	Political Geography	4	60	T	25	75
	CORE-10	Practical	2+2=4	60+60	P	25	75
		Research Project/Survey/ Industrial/Field training	4	60	--	25	75
TOTAL			24			600	



Dr. PRITI JAISWAL

SEMESTER - 3

Course Code	Core / Elective	Course Title	Credit	Total hours	T/P	Evaluation M.M.=100	
						Internal	External
	CORE-11	Hydrogeography	4	60	T	25	75
	CORE-12	Agriculture Geography	4	60	T	25	75
	Elect-1	Basics of Remote Sensing & GIS	4	60	T	25	75
		Cultural Geography					
	Elect-2	Advanced Cartography	4	60	T	25	75
		Geography of Tourism					
	CORE-13	Practical	2+2=4	60+60	P	25	75
		Research Project/Survey/Industrial/Field training	4	60	--	25	75
TOTAL			24			700	


 (Dr. PRITI JAISWAL)

SEMESTER - 4

Course Code	Core / Elective	Course Title	Credit	Total hours	T/P	Evaluation M.M.=100	
						Internal	External
	CORE-14	Environmental Geography	4	60	T	25	75
	CORE-15	Regional Planning and Development	4	60	T	25	75
	Elect-3	Urban Geography	4	60	T	25	75
		Rural Geography					
	Elect-4	Research methods & Techniques	4	60	T	25	75
		Disaster management					
		Practical					
	CORE-16	Research Project/Survey/Industrial/Field training	2+2=4	60+60	P	25	75
			4	60	--	25	75
TOTAL			24			700	




(Dr. PRITI JAIN)

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COURSE STRUCTURE M.A./M.Sc. Geography (CBCS)
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(Dr. Priti Jaiswal)


(Dr. PRITI JAISWAL)

2 Years Semester Course (CBCS) Outline

SEMESTER - 1

Course Code	Core / Elective	Course Title	Credit	Total hours	T/P	Marks=100	
						Internal	External
	CORE-1	Geomorphology	4	60	T	25	75
	CORE-2	Geographical Thought	4	60	T	25	75
	CORE-3	Physical Geography of India	4	60	T	25	75
	CORE-4	Population Geography	4	60	T	25	75
	CORE-5	Practical	4	60	T	25	75
	Minor-1	1. Climatic Change and Environmental Degradation Or 2. Climate change	2+2=4	60+60	P	25	75
		Research Project/Survey/ Industrial/Field training	4	60	--	25	75
TOTAL			28			700	




(Dr. PRITI JAIN/SWAL)

SEMESTER - 2

Course Code	Core / Elective	Course Title	Credit	Total hours	T/P	Evaluation M.M.=100	
						Internal	External
	CORE-6	Climatology	4	60	T	25	75
	CORE-7	Advanced Economic Geography	4	60	T	25	75
	CORE-8	Socio-Economic Geography of India	4	60	T	25	75
	CORE-9	Political Geography	4	60	T	25	75
	CORE-10	Practical	2+2=4	60+60	P	25	75
		Research Project/Survey/Industrial/Field training	4	60	--	25	75
TOTAL			24			600	


 (Dr. PRITI JAISWAL)



SEMESTER - 3

Course Code	Core / Elective	Course Title	Credit	Total hours	T/P	Evaluation M.M.=100	
						Internal	External
	CORE-11	Hydrogeography	4	60	T	25	75
	CORE-12	Agriculture Geography	4	60	T	25	75
	Elect-1	Basics of Remote Sensing & GIS	4	60	T	25	75
		Cultural Geography					
	Elect-2	Advanced Cartography	4	60	T	25	75
		Geography of Tourism					
	CORE-13	Practical	2+2=4	60+60	P	25	75
		Research Project/Survey/Industrial/Field training	4	60	--	25	75
TOTAL			24			700	




 CDR. PRITI JAINSWAL

SEMESTER - 4

Course Code	Core / Elective	Course Title	Credit	Total hours	T/P	Evaluation M.M.=100	
						Internal	External
	CORE-14	Environmental Geography	4	60	T	25	75
	CORE-15	Regional Planning and Development	4	60	T	25	75
	Elect-3	Urban Geography	4	60	T	25	75
		Rural Geography					
	Elect-4	Research methods & Techniques	4	60	T	25	75
		Disaster management					
	CORE-16	Practical	2+2=4	60+60	P	25	75
		Research Project/Survey/ Industrial/Field training	4	60	--	25	75
TOTAL			24			700	




(Dr. PRITI JAIN/SWAL)

M.A. /M.Sc.	Subject: Geography	Year: First	Semester: I
Paper Code:	Paper Title: Geomorphology		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
Course Learning Outcome - Students will be able to understand			
<ol style="list-style-type: none"> 1. The Earth geomorphic transition from beginning to present day. 2. Plate tectonics and related movements. 3. Morphometric techniques. 4. Indian geomorphology. 			
UNIT			Periods
I	Meaning, scope and Fundamental Concepts of geomorphology- Concept of time: cyclic, graded and steady state.		15
UNIT			
II	Endo-genetic process: Plate tectonic, Mountain, Building, Vulcanicity, Seismicity, Isostasy.		15
UNIT			
III	Exo-genetic process: weathering and erosion, cycle of erosion, Davis and Penk's view.		15
UNIT			
IV	Geomorphometric Analysis – Drainage density, Drainage frequency, Bifurcation ratio, Slope types.		15




 (Dr. PRITI JAISWAL)

Recommended Books:

1. Anhert, F. (1996): Introduction to Geomorphology, Edward Arnold, London.
2. Bloom, A.L. (1979): Geomorphology, Prentice Hall, New Jersey, USA.
3. Chorley, R. J., Schumm, S.A. and Sugden, D.E. (1984): Geomorphology, Methuen, London.
4. Dayal, P. (1987): Geomorphology (in Hindi), Patna.
5. Dikshit, K.R. et.al. (1994): India Geomorphological Diversities, Rawat Pub. Jaipur.
6. Fairbridge, R.W. (1968): Encyclopaedia of Geomorphology, Reinholdts, New York.
7. Kale, V.S. and Gupta, A. (2001): Introduction to Geomorphology, Orient Longman, Hyderabad.
8. King, C.A.M. (1968): Techniques in Geomorphology, Edward Arnold, London.
9. Melhorn, W.N. & Flemal, R.C. (1981): Theories of Landforms Development, George Allen Unwin, London.
10. Miller, A. A. (1953): The Skin of the Earth, Methuen and Co. Ltd., London
11. Ollier, C.D. (1981) Tectonics and Landforms, Longman, London.
12. Sharma, H.S. : (1987) Tropical Geomorphology, Concept, New Delhi.
13. Sharma, H.S. and Kale, V.S. (2009): Indian Geomorphology, Rawat Pub. Jaipur.
14. Singh, Savindra (2005): Geomorphology, Prayag Pustak Bhawan, Allahabad. (Hindi & English)
15. Small, R.J. (1976): The Study of Landforms, Cambridge University Press, Cambridge.
16. Sparks, B.W. (1988): An Introduction to Geomorphology, Longman, London.
17. Steers, A. (1958). The Unstable Earth, Methuen, London
18. Strahler, A.H. and Strahler, A.N. (1992): Modern Physical Geography, John Wiley, New York
19. Strahler, A. N. (1964): Quantitative Geomorphology of Drainage Basins and Channel Networks,
In: Handbook of Applied Hydrology, Ven Te Chow, Ed., Section 4-II, McGraw-Hill Book Company, New York
20. Tarbuck, E. J. and Lutgens, F. K. (2009): Earth Science, Prentice Hall, New Jersey
21. Thornbury, W.D. (1969) : Principles of Geomorphology, New Age International (p) Ltd., New Delhi.
22. Tricart, J. & Cailleux, A. (1972): Introduction to Climatic Geomorphology, Longman, London.
23. Twidale, C.R. (1976): Analysis of Landforms, John Wiley. London.
24. Wooldridge, S.W. and Morgan, R.S. (1959): The Physical Basis of Geography- An Outline of Geomorphology. Longmans Green, London




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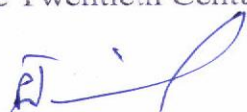
M.A. /M.Sc.	Subject: Geography	Year: First	Semester: I
Paper Code:	Paper Title: Geographical Thought		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
Course Learning Outcome – Students will be able to- <ol style="list-style-type: none"> 1. Visualize the basic theme, ideas, dichotomies and approaches of geographic knowledge with relation to historical juncture, varying schools and era of their emergence. 2. Critically evaluate the nature of geography as spatial science with changing space and time 3. Understand the conceptual and philosophical knowledge of Geography. 			
UNIT	Changing Paradigm of Geography, Development of Dualism in Geography, Physical v/s Human, Systematic v/s Regional, Fallacy of Dualism.	Periods	
I		15	
UNIT	Concept of Paradigm: Paradigm shift, positivism, Quantitative revolution and its Impact, Models, system analysis in geography,	18	
II			
UNIT	Humanistic Geography: Radical Geography: Geography as a Science of Human Welfare; Behavioralism in Geography	12	
III			
UNIT	History and Development of Geographical Thought in India: Contribution of Indian Scholars in Geography.	15	
IV			

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Books Recommended:

1. Adhikari, Sudipto (2009): Fundamentals of Geographical Thought, Chaitanya Pub. House, Allahabad.
2. Arild, H. J. (1999): Geography: History and Concepts, SAGE Publications, London
3. Chorley, R. J. (Ed): Directions in Geography, Methuen and Co., London
4. Chorley, R.J. & Haggett, P. eds. (1967): Integrated Models in Geography, Methuen, London.
5. Davies, W.K.D. (1972): The Conceptual Revolution in Geography, University of London Press, London.
6. Dear, M. J. and Flusty, S. (2002): The Spaces of Postmodernity: Readings in Human Geography. Blackwell Publishers, Oxford.
7. Dickinson, R.E. (1969): The Makers of Modern Geography, Routledge and Kegan Paul, London.
8. Dikshit, R. D. (2004): Geographical Thought. A Critical History of Ideas. Prentice-Hall of India, New Delhi. (in English and Hindi).
9. Dikshit, S.K. (2001): Bhaugolik Chintan Ka Udbhav Avam Vikas, Vishwavidyalaya Prakashan, Varanasi.
10. Hartshorne, R. (1959): Perspectives on the Nature of Geography, John Murray, London.
11. Harvey, D. (1969): Explanation in Geography, Edward Arnold, London.
12. Harvey, M. E. and Holly, P.B. (2002): Themes in Geographic Thought. Rawat Publications., Jaipur and New Delhi.
13. Hubbard, P., Kitchin, R., Bartley, B. and Fuller, D. (2002): Thinking Geographically: Space, Theory and Contemporary Human Geography. Continuum, London.
14. Husain, Majid (2001): Evolution of Geographical Thought, Rawat Publications, Jaipur.
15. James, P.E. & Jones, C.F. (1954): American Geography : Inventory & Prospect, Syracuse Univ. Press, New York.
16. James, P.E. (1980): All Possible World: A Hundred Years of Geography, Sachin Pub. Jaipur.
17. Johnston, R, Gregory D, Pratt G, Watts M. and Whatmore S. (2003): The Dictionary of Human Geography. Blackwell Publishers, Oxford. 5th edition.
18. Johnston, R.J. (1984): Geography and Geographers, Arnold Heinemann, London.
19. Johnston, R.J. (1985): The Future of Geography, Methuen and Company Ltd., New York. (2003 edition published).
20. Johnston, R.J. and Sidaway, J.D. (2004): Geography and Geographers. 6 London. th edition, Edward Arnold,
21. Peet, R. (1998): Modern Geographical Thought. Blackwell Publishers Inc, Massachusetts.
22. Richard, P. (1998): Modern Geographical Thought, Blackwell, Singapore
23. Richard, Peet (1977): Radical Geography, Methuen & Co. Ltd., London.
24. Sack, R. D. (ed.) (2002): Progress. Geographical Essays. John Hopkins University Press, Baltimore.
25. Sauer, C. O. (1963): Land and Life. University of California Press, Berkeley.
26. Singh, Jagdish (2008): Bhaugolik Chintan Ke Mooladhar, Gyanodaya Prakashan, Gorakhpur.
27. Taylor, G. (ed.) (1953): Geography in the Twentieth Century. Methuen and Company Ltd., London.




(Dr. PRITI JAISWAL)

M.A. /M.Sc.	Subject: Geography	Year: First	Semester: I
Paper Code:	Paper Title: Physical Geography of India		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
<p>Course Learning Outcome - On completion of this course, learners will be able to:</p> <ul style="list-style-type: none"> • Introduces physical aspects of the Indian sub-continent • Appraise the climatic characteristics • The importance of “Ek Bharat Shrestha Bharat” • The wider aspects of Physical Geography of India 			
UNIT	India through geological times, Geological Structure, Physiography and Physiographic division of India: Mountains, Plateaus, Plains, and Coasts, Himalayan orogeny.	Periods	
I		15	
UNIT	Drainage system, and Watersheds, Soils and soil types, Soil problems: soil erosion, soil degradation, desertification, salinity and alkalinity. Soil Conservation.	15	
UNIT	Climatic characteristics, Origin and Mechanism of Indian Monsoon, Distribution of rainfall, Climatic Regions.	15	
UNIT	Natural Vegetation & wild life., Forest Resources, Problem of deforestation and forest Conservation.	15	
IV			




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Books Recommended:

1. Centre for Science & Environment: State of India's Environment, New Delhi, 1988.
2. Deshpande, C.D. (1992): India: A Regional Interpretation ICSSR & Northern Book Centre.
3. Ganguly, S. and Neil, De Votta (eds.) (2003): Understanding Contemporary India. Lynne Rienner Publishers, Boulder and London.
4. Gautam, A.(2.005): Geography of India(in Hindi & English): Rastogi Publishing House, Meerut.
5. Gole, P.N. (2001): Nature Conservation and Sustainable Development in India. Rawat Publications, Jaipur and New Delhi.
6. Khullar, D.R. (1968): India. A Comprehensive Geography. Kalyani Publishers, New Delhi, 2006.
7. Krishnan, M.S.: Geology of India and Burma, 4th Edition, Higgin Bothams Private Ltd., Madras.
8. Majid, Husain (2008): Geography of India, Tata McGraw Hill Company, New Delhi.
9. Nag, P. and Gupta, S.S. (1992): Geography of India, Concept Publishing Company, New Delhi.
10. Singh, J. (2003): India: A Comprehensive and Systematic Geography, Gyanodaya Prakashan, Gorakhpur.
11. Singh,R.L.(Ed.)(1971): India: A Regional Geography, National Geographical Society of India, Varanasi.




(Dr. PRITI JAISWAL)

M.A. /M.Sc.	Subject: Geography	Year: First	Semester: I
Paper Code:	Paper Title: Population Geography		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4

Course Learning Outcome - The student will be able to

- describe and evaluate dimension of population dynamics in space and time.
- comprehend population scenarios, its composition, contemporary problems and policies.

UNIT		Periods
I	Concepts, scope and methodology of population geography; Data sources; Population dynamics: fertility, mortality and migration; Concepts of ageing: young, stationary and stable population.	15
II	Theories of Population Growth: Malthus, Marx, Optimum and Demographic transition; Migration theories: Ravenstien and Everetts Lee	15
III	Problems of under, over, declining and zero population; Population resource regions of the world; Concept of human development.	15
IV	Characteristics of population: age-sex structure, rural-urban, literacy, work force and occupational structure; National population policy.	15

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Recommended Books:

1. Agarwal, S. M. (1974): India's Population Problems, McGraw Hill Publishing Co. Ltd., New Delhi.
2. Beaujeu, Garnier (1978): Geography of Population, Longman, London.
3. Berelson, B. (1974): Population Policy in Developed Countries, MacMillan, London
4. Bhende, A. A. and Kanitkar, T. (2011): Principles of Population Studies, Himalaya
5. Chandana, R. C. & Sidhu, M.S (2013): Population Geography, Kalyani Publications, Delhi
6. Desoza, A. A. (1983): Indian Population Problem in Perspective and Social Action, Concept Publications, New Delhi
7. Hazel, B. R. (1994): Population Geography, Singapore Publishers Pvt. Ltd., Singapore
8. Hiralal (2000): Jansankhya Bhoogol, Radha Publications, New Delhi.
9. Panda, B.P. (1991): Population Geography (in Hindi), Madhya Pradesh Hindi Granth Academy, Bhopal.
10. Sundaram, K.V. (1985): Population Geography, Heritage Publishers, New Delhi.
11. Trewartha, G.T. (1969): Geography of Population: World Patterns, John Wiley & Sons, New York.
12. Tripathi, R.D. (2008): Jansankhya Bhoogol Avam Janakiki, Vasundhara Prakashan, Gorakhpur.




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M.A. /M.Sc.	Subject: Geography	Year: First	Semester: I
Paper Code:		Paper Title: Practical	Practical
Max. Marks: 75+25 = 100		Core Paper	Credit: 2+2 = 4

Part	UNIT		Periods
A	I	Exercise on relief profiles: Super-imposed, composite and projected profiles. Construction of block diagrams. Geological maps – cross section drawing and interpretation of simple, inclined beds, folded and faulted structure.	30
	II	Measures of central tendency-Mean, median and mode, Mean deviation, Quartile deviation.	30
Part	UNIT III	Study and interpretation of topographical maps of India with particular reference to structure and geomorphic features, hydrological features, land use etc.	30
B	UNIT IV	Representation of population data – Isopleth and choropleth, Line graph, Dots Circle diagram, Population Pyramid. Study of population maps.	30

For Examination Break-Up of Marks-

(1) Written Test (3Hrs.): 40 marks. (2) Practical Record: 15marks (3) Viva-voce: 20 marks

Books Recommended:

1. Monkhouse, F.J. Maps & Diagrams.
2. Robinson, A.H. Elements of Cartography.
3. Singh, R.L., Elements of Practical Geography.
4. Singh, L.R. & Singh, R.N. Map Work and Practical Geography (Eng./Hindi)
5. Sharma, J.P. Prayogatmak Bhoogol Ki Rooprekha (Hindi)
6. Hira Lal, Prayogatmak Bhoogol Ke Adhar (Hindi)
7. Lal, Hira, Matratmak Bhoogol (Hindi)
8. Tiwari, R.C. and Tiwari, Sudha, Abhinav Prayogic Bhoogol

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M.A. /M.Sc.	Subject: Geography	Year: First	Semester: I
Paper Code:		Paper Title: Field training of Surveying.	Training
Max. Marks: 75+25 = 100		Skill Development Course	Credit: 4
As per the requirement of syllabus of course exercises will be performed physically, virtually, field and survey etc			




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M.A. /M.Sc.	Subject: Geography	Year: First	Semester: II
Paper Code:	Paper Title: Climatology		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
Course Learning Outcome - The student will be able <ul style="list-style-type: none"> To conceptualize the concept of weather and climate and correlate it with daily weather phenomena. To develop the casual relationship of climate and other socio-economic and cultural activities. 			
UNIT I	Definition and Scope of Climatology, Weather & Climate. Atmosphere: Evolution, Composition and Structure of the Atmosphere. Insolation, Heat Budget and Heat Balance of the Earth. Vertical and Horizontal Distribution of Temperature.	Periods 12	
UNIT II	Atmospheric Pressure: Horizontal and Vertical Distribution of pressure. Winds and Atmospheric Circulations. Geostrophic Wind and Gradient Wind, Tricellular Circulation and JET Streams. Humidity, Condensation and Precipitation. Cloudburst. Artificial Rain.	18	
UNIT III	Air Masses, Fronts, Tropical and Temperate Cyclones, Anticyclones. Tertiary Atmospheric Circulations – Thunderstorms, Tornadoes, Hailstorms. Meteorological Hazards and Disasters,	15	
UNIT IV	Climate and it's Classification, Koppen's and Thornthwaite's schemes. Human impact on Global Climate. Green House Effect, Ozone Depletion. Atmospheric Pollution, Global Warming and Climatic Change.	15	




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Recommended Books:

1. Banerji, R.C. & Upadhyay, D.S. (1999): Mausam Vigyan, Rajasthan Hindi Granth Academy, Jaipur.
2. Critchfield, H.J. (2002): General Climatology, Prentice Hall of India, New Delhi.
3. Hobbs, J.E. (1983): Applied Climatology, Butterworths, London.
4. Kendrew, W.G. (1972): Climatology, Oxford Uni. Press.
- 44
5. Lal, D.S. (2001): Climatology, Chaitanya Pub. House, Allahabad.
6. Lockwood, J.G. (1974): World Climatology and Environmental Approach, Edward Arnold, London.
7. Mathur, J.R. (1974): Climatology: Fundamentals and Applications, Mc Hill Book Company, New York.
8. Negi, B.S. (1999): Climatology and Oceanography (in Hindi), Kedarnath Ramnath, Meerut.
9. Rob Van Den Berg (2009) Evaluating Climate Change and Development. Prentice Hall, Englewood Cliffs, New Jersey 0762, 1998
10. Sidhartha, K. (2002): Atmosphere, Weather and Climate, Kislay Pub. Pvt. Ltd., New Delhi.
11. Singh, Savindra (2005): Climatology, Prayag Pustak Bhawan, Allahabad.
12. Subrahmaniam, V.P. (1992): Contribution to Indian Geography Part – III – General Climatology, Heritage Publication, New Delhi.
13. Trewartha, G.T. (1954): An Introduction to Climate, McGraw Hill Series in Geography. New York
14. Upadhyay, D.P. & Singh, R. (2003): Climatology and Hydrology (in Hindi), Vasundhara Prakashan, Gorakhpur.

(Dr. PRITI JAISWAL)

M.A. /M.Sc.	Subject: Geography	Year: First	Semester: II
Paper Code:	Paper Title: Advanced Economic Geography		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4

Course Learning Outcome – On completion of this course, learners will -

- Understand nature, scope, methods, approaches and recent trends in economic geography.
- Get knowledge on different locational theories
- Able to explain changing concept of development, world trade patterns.

UNIT		Periods
I	Nature and scope, Methods & Approaches of study, Recent trends in Economic Geography	15
II	Locational Theories-Von-Thunen, Modern Theory, Industrial Location Theories- Minimum Cost Theory Market Competition Theory, Integrated Theory,	15
III	Changing concept of development. Theories of Economic development: Classical, New Classical and Growth Pole Theory. World Development Pattern, Sustainable development.	15
IV	International trade, Factors influencing the international trade, World Trade Pattern, Concept of Globalization, Liberalization and Privatization.	15




(Dr. PRITI JAKWAL)

Recommended books:

1. Alexander, J.W. (2012): Economic Geography, Prentice Hall of India, NewDelhi.
2. Berry, B.J.L. et al. (1976): Geography and Economic Systems, Prentice Hall, EnglewoodCliff.
3. Boyce, R.D. (1990): Bases of Economic Geography, Holt Rinehart & Winston, NewYork. Cliffs, N.J.Prentice.
4. Dreze, J. and Sen, A. (1996): Economic Development and Social Opportunity. Oxford University Press, NewDelhi.
5. Haggett, P. (1966): Locational Analysis in Human Geography, St. Martin's Press, NewYork.
6. Hanink, D.M. (1997): Principles and Applications of Economic Geography, Economy,
7. Hartshorne, T.A. & Alexander, J.W. (1994): Economic Geography, Prentice Hall of India, New Delhi.
8. Hodder, B.W. & Lee, R. (1996): Economic Geography, Methuen, London.
9. Janaki, V.A. (1985): Economic Geography, Concept Publishing Co., NewDelhi.
10. Jones & Darkenwald (1960): Economic Geography, NewYork.
11. Knox, P. and J. Agnew (1998): The Geography of the World Economy. Arnold, London.
12. Lloyd, P. And P. Dicken (1972): Location in Space: A theoretical approach to Economic Geography, Harper and Row, NewYork.
13. McCarty, H.H. and J.B. Lindberg (1966): A preface to Economic Geography, Englewood, New York.
14. Rostov, W.W. (1960): The Stages of Economic Growth, Cambridge Univ. Press, London.
15. Singh, K.N and Siddiqui, A (2012): Economic Geography, PrayagPustakBhawan, Allahabad
16. Singh, K.N. & Singh, J. (1996): ArthikBhoogolKeMooltatva, GyanodayaPrakashan, Gorakhpur.
17. Smith, G.H. (2000): Conservation of Natural Resources, John Wiley, NewYork.
18. Thomas, Conkling and Yeates (1974): Geography of Economic Activity, McGraw Hill, University Press, NewDelhi.
19. Wheeler, J.O. et.al. (1995): Economic Geography, John Wiley, NewYork.



(Dr. PRITI JASWAL)

M.A. /M.Sc.	Subject: Geography	Year: First	Semester: II
Paper Code:	Paper Title: Socio-Economic Geography of India		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
Course Learning Outcome – On completion of this course, learners will be able to - <ul style="list-style-type: none"> • Understand socio-economic aspects of the India. • Understand Regional Development and Disparities. • The wider aspects of socio-economic Geography of India. 			
UNIT			Periods
I	Population growth: trends and pattern; Population: distribution and density; Ageing of population; Sex and literacy differentials; Trends of urbanisation; National population policy.		15
UNIT II	Agricultural Characteristics and Trends, Land holdings, Land tenure, Land consolidation and Land reforms; Green revolution, White revolution, Blue revolution, and Yellow revolution.		15
UNIT III	Industrial development, Industrial regions, industrial problems. New industrial policy. Problems & Prospects of Industrially Backward Regions.		15
UNIT IV	Regional Development and Disparities. Special Economic Zones. Planning Regions of India: Delimitation and Salient Features.		15

(Dr. PRITI JAISWAL)

Recommended Books:

1. Bansal, S.C. (1999): Advanced Geography of India, Meenakshi Publication, Meerut.
2. Chauhan P.R. (2001): Bharat Ka Vrihat Bhoogol, Vasundhara Prakashan, Gorakhpur.
3. Deshpande C.D (1992): India: A Regional Interpretation, Northern Book Centre, New Delhi.
4. Gautam, Alka (2001): Geography of India, Sharda Pustak Bhawan, Allahabad.
5. Govt. of India : Economic Survey, Ministry of Finance, New Delhi (Different Issues)
6. Hussain, Majid (2008): Advance Geography of India, Tata McGraw Hill, New Delhi.
7. Johnson, B.L.C. (1983): Development in South Asia, Penguin Books, Harmondsworth.
8. Khullar, D.R. (2006): India: A Comprehensive Geography, Kalyani Pub., New Delhi.
9. Krishnan, M. S. (1968): Geology of India and Burma, 4 edition. Higgin Bothams Private. Ltd., Madras.
10. Nag, P. and Gupta S. S. (1992): Geography of India, Concept Publishing Company, New Delhi.
11. Sharma, T. C. (2003): India: Economic and Commercial Geography, Vikas Publication., New Delhi.
12. Singh, J. (2003): India: A Comprehensive and Systematic Geography, Gyanodaya Prakashan, Gorakhpur.
13. Singh, R. L. (ed.) (1971): India. A Regional Geography, National Geographical Society of India, Varanasi.
14. Spate, O.H.K. & Learmonth, A.T.A. (1954): India & Pakistan, Methuen, London.
15. Tiwari, R. C. (2007): Geography of India, Prayag Pustak Bhawan, Allahabad
16. Wadia, D. N. (1959): Geology of India. MacMillan and Company.



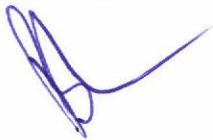

(Dr. PRITI JAISWAL)

M.A. /M.Sc.	Subject: Geography	Year: First	Semester: II
Paper Code:	Paper Title: Political Geography		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
Course Learning Outcome - Student will be able to - <ul style="list-style-type: none"> critically examine various political issues in geographical context. evaluate and correlate theories with reference to geopolitics and geo-strategic issues. Understand the Geopolitical Setting of India in relation to the neighbours and its significance in the world regional settings. 			
UNIT	Meaning Nature, Scope and development, of political geography.	Periods	
I	Definition and Components of State, Definition of Nation and Nation State, Definition of Boundary and Frontier and their Classification	15	
UNIT	Mackinder's Geographical Pivot and Heartland Model, Spykman's Rim Land Model, Geostrategic idea of A.T. Mahan, Critical Assessment of Heartland and Rim Land Model.	15	
UNIT	Geopolitical Setting of India, Geopolitical significance of India Ocean. India's border with neighbouring countries especially with Pakistan, China and Bangladesh.	15	
UNIT	Regional Co-operations – SAARC, ASEAN, European Union.	15	
IV			

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Recommended Books:

1. Alexander, L.M. World Political Patterns, Ran McNally, Chicago, 1963.
2. De Blij H.J. and Glassner, Martin: Systematic Political Geography, John Wiley, N.Y. 1968.
3. Dikshit, R.D.: Political Geography: A Contemporary Perspective, Tata McGraw Hill, New Delhi, 1996.
4. Taylor, P: Political Geography, Longman, London, 1985.
5. Sukhwai, B.L., Modern Political Geography of India, Sterling Publisher, New Delhi, 1968.
6. Taylor, P: Political Geography, Longman, London, 1985.
7. Fisher, Charles: Essays in Political Geography, Methuen, London, 1968.
8. Pounds, N.J.G.: Political Geography, McGraw Hill, N.Y., 1972.
9. John R. Short, An Introduction to Political Geography, Routledge, London, 1982.
10. Moddle A.E.: Geography Behind Politics, Hutchinson, London, 2000.
11. Prescott, J.R.V.: The Geographical Factors and Boundaries, Aldine, Chicago.
12. Deshpande, C.D.: India: A regional Interpretation, Northern Book Centre, New Delhi 1992.
13. Panikkar, K.M.: Geographical Factors in Indian History, 2 Vols. Asia Publishing House, Bombay, 1959




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M.A. /M.Sc.	Subject: Geography	Year: First	Semester: II
Paper Code:	Paper Title: Practical		Practical
Max. Marks: 75+25 = 100	Core Paper		Credit: 2+2 = 4

	UNIT		Periods
PART A	I	Study and interpretation of weather maps of India, daily weather charts. Hythergraph & Climograph.	30
	II	Cartograms: Rectangular Cartograms, Traffic flow Cartograms and Isochronic Cartograms,	30
PART B	III	Measures of dispersion, Standard Deviation, Co-efficient of variation, Co-efficient of Correlation, rank Correlation.	30
	IV	Data Sampling - Probability Sampling Methods - Simple random sampling, Systematic sampling, Stratified sampling, Clustered sampling, Non-Probability Sampling - Convenience sampling, Quota sampling, Purposive or Judgmental sampling, Snowball sampling,	30

For Examination Break-Up of Marks-

- (1) Written Test (3Hrs.): 40 marks. (Four questions of 10 marks each)
- (2) Practical Record: 15marks
- (3) Viva-voce: 20 marks

AT
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M.A. /M.Sc.	Subject: Geography	Year: First	Semester: II
Paper Code:		Paper Title: Field Survey	Field Survey
Max. Marks: 75+25 = 100		Skill Development course	Credit: 4
<p>Course Learning Outcome - Students will be able to understand</p> <ol style="list-style-type: none"> 1. The variation among geographical locations. 2.. Interaction with people with different natural and cultural settings. 3. Study physical and human geography of area being visited. <p>For the field survey a long trip of not less than 10 days duration, to provide traverses across a large reason of the country shall be undertaken to study the regional variation in physical and cultural landscape particular attention should be given to the following aspects in the field trip.</p> <ul style="list-style-type: none"> Structure and relief Identification of landforms Hydrology Soils and soil erosion Flora and Fauna Agricultural and Industrial landscape Transport framework Population and settlements Problems and prospects of the region. <p>The maximum number of students under one teacher will be 10 only but the minimum number of teachers will not be less than 2. The expenditure of the staff accompanying the students will be met by the institution concerned as per university rules.</p>			
<p>For evaluation –</p> <p>Field survey report – 50 marks</p> <p>Viva -voce 25 marks</p>			




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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: III
Paper Code:	Paper Title: Hydrogeography		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
Course Learning Outcome – Student will be able to understand: <ul style="list-style-type: none"> • The basic concept of oceanography and its relationship with marine resources. • The application of water balance equation to various hydrological problems in time and space. 			
UNIT	Meaning, scope and development of hydrology, Hydrological cycle, Man's influence on the hydrological cycle. Definition, Scope, and Historical development of Oceanography.	Periods	
I		15	
UNIT	Major relief features of ocean basins: Continental-Shelf, Continental - slope and Deep-Sea Plain, Ocean bottom relief of Indian Ocean, Pacific Ocean and Atlantic Ocean. Distribution of temperature, salinity	15	
UNIT	Circulation and Circulation Patterns in oceans: Surface Waves, Currents, and Tides. Coral Reefs and Atolls: Theories of their Formation	15	
UNIT	Types of Marine Deposits and its Distribution in the Atlantic, Pacific and Indian Ocean. Biotic, Mineral and Energy resources. Sea Level Change and Coastal Erosion	15	
IV			

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Recommended Books:

1. Bernhard, H. and James, M. A. (1944): Climatology. McGraw Hill Company, New York.
2. Chorley, R. J. (1995): Atmosphere, Weather and Climate. Methuen and Company Ltd. And Company Ltd., London.
3. Chow, V. T. (ed.) (1954): Handbook of Applied Hydrology: A Compendium of Water Resources Technology. McGraw Hill, New York.
4. Critchfield, H. J. (2003): General Climatology. Prentice-Hall of India, New Delhi.
5. Rai, V.K. (1993): Water Resource Planning and Development, Deep and Deep Publication, New Delhi
6. Bilas, R. (1988): Rural Water Resource Utilization and Planning. Concept Publishing Company, New Delhi.
7. Reddy, J. P. (1988): A Textbook of Hydrology. Laxmi Publication., New Delhi. 4th edition.
8. Singh, M. B. (1999): Climatology and Hydrology. Tara Book Agency, Varanasi. (In Hindi).
9. Singh, M. B. (2002): Physical Geography. Tara Book Agency, Varanasi. (In Hindi).
10. Singh, S. (1998): Geomorphology. Prayag Pustak Bhavan, Allahabad.
11. Sparks, B.W. (1986): Geomorphology. Longman, London.
12. Thornbury, W.D. (2005): Principles of Geomorphology. John Wiley and Sons, New York.
13. Trewartha, G. T. (1980): An Introduction to Climatology. McGraw Hill Student edition, New York.
14. Ward, R.C. and Robinson, M. (2000): Principles of Hydrology. McGraw Hill, New York.
15. Weisberg, J. S. (1974): Meteorology. Houghton Mifflin Company, Boston.
16. Wooldridge, S.W. and Morgan, R.S. (1959): The Physical Basis of Geography- An Outline of Geomorphology. Longmans Green, London
17. Upadhyaya D.P. and Singh R.A. : Climatology and Hydrology, Vasundhara Publications , Gorakhpur
18. Jones J.A.A. :Global Hydrology, Process Resources and Environmental Management, Longman, London, 1997.
19. Todd D.K.: Ground Water Hydrology, John Wiley, New York , 1959.


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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: III
Paper Code:	Paper Title: Agriculture Geography		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
Course Learning Outcome – The students will be able to - <ul style="list-style-type: none"> Analyse the agriculture development and productivity and its impacts on various sectors. Get updated knowledge of contemporary issues and strategies. Evaluate the agricultural dynamics, agriculture system and major issues in agricultural development. 			
UNIT			Periods
I	Nature, scope, significance and development of agricultural geography. Approaches to the study of agricultural geography: Regional and Systematic approach, Ecological and Commodity approach.		15
II	Cropping pattern. Crop concentration, intensity of cropping, degree of commercialization, Crop diversification, efficiency and productivity, The concept of agricultural landscape.		15
III	Theories of agricultural location, Von Thunen's theory of agricultural location and its recent modifications. Agricultural regions: Concepts and Techniques, Methods of agricultural regionalisation; Whittlesey's classification of agricultural regions.		15
IV	Contemporary issues; Food, nutrition and hunger, food aid programmes; Agriculture and Environmental degradation - role of irrigation, fertilizers, insecticides and pesticides. Zero Budget Farming and Organic Farming,		15

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Recommended Books:

1. Baylist Smith T.P.: The Ecology of Agricultural System, Cambridge University Press, London, 1987.
2. Gregor, H.P.: Geography of Agriculture, Prentice Hall, B.Y., 1970.
3. Mannion, A.M. : Agriculture and Environmental Change, John Wiley, London, 1971.
4. Morgan, W.B. and Norton, R.J.C.: Agricultural Geography, Methuen, London, 1971.
5. Morgan, W.B. Agricultural in the Third World, A spatial Analysis, West View Press, Boulder, 1978.
6. Sauer, C.O.: Agricultural Origins and Dispersals, M.I.T. Press West View Press Mass, USA, 1969.
7. Singh J. and Dhillon S.S.: Agricultural Geography, Tata McGraw Hill Pub., New Delhi, 1988.
8. Tarrant, J.R.: Agricultural Geography, Wiley, N.Y., 1974. 1. Baylist Smith T.P.: The Ecology of Agricultural System, Cambridge University Press, London, 1987.
2. Gregor, H.P.: Geography of Agriculture, Prentice Hall, B.Y., 1970.
3. Mannion, A.M. : Agriculture and Environmental Change, John Wiley, London, 1971.
4. Morgan, W.B. and Norton, R.J.C.: Agricultural Geography, Methuen, London, 1971.
5. Morgan, W.B. Agricultural in the Third World, A spatial Analysis, West View Press, Boulder, 1978.
6. Sauer, C.O.: Agricultural Origins and Dispersals, M.I.T. Press West View Press Mass, USA, 1969.
7. Singh J. and Dhillon S.S.: Agricultural Geography, Tata McGraw Hill Pub., New Delhi, 1988.
8. Tarrant, J.R.: Agricultural Geography, Wiley, N.Y., 1974. 1. Baylist Smith T.P.: The Ecology of Agricultural System, Cambridge University Press, London, 1987.
2. Gregor, H.P.: Geography of Agriculture, Prentice Hall, B.Y., 1970.
3. Mannion, A.M. : Agriculture and Environmental Change, John Wiley, London, 1971.
4. Morgan, W.B. and Norton, R.J.C.: Agricultural Geography, Methuen, London, 1971.
5. Morgan, W.B. Agricultural in the Third World, A spatial Analysis, West View Press, Boulder, 1978.
6. Sauer, C.O.: Agricultural Origins and Dispersals, M.I.T. Press West View Press Mass, USA, 1969.
7. Singh J. and Dhillon S.S.: Agricultural Geography, Tata McGraw Hill Pub., New Delhi, 1988.
8. Tarrant, J.R.: Agricultural Geography, Wiley, N.Y., 1974.



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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: III
Paper Code:	Paper Title: Basics of Remote Sensing & GIS		Theory
Max. Marks: 75+25 = 100	Elective Paper		Credit: 4
Course Learning Outcome – On completion of this course, learners will be able to: 1. Understanding the basic concept of GIS and GPS Technology, 2. Students will be able to apply the knowledge of GIS technique and its application in geographic studies.			
UNIT	Introduction of GIS: Definition, and development of GIS, Elements of GIS, Geoinformatics and GIS, Georeferencing.	Periods	
I		12	
UNIT	Geo-information and Spatial Data: Types of information in a digital map: scale, projection, Coordinate system; Elements & Types of Spatial Data; Raster and vector data structure; attribute data; Database management systems	12	
II			
UNIT	GPS-segment, types, surveying techniques, instruments, applications and benefits, Integration of GIS with Remote Sensing & Global positioning System (GPS), Application of GPS.	18	
III			
UNIT	Application of GIS in Geographical Studies; Issues and Prospects of GIS; Web-GIS; GIS Packages- Arc GIS, Q-GIS	18	
IV			

Books Recommended

1. Bonham, Carter, G.F. (1995): Information Systems for Geoscientists – Modelling with GIS, Pergammon, Oxford.
2. Burroughs, P.A. and McDonnell, R. (1998): Principles of Geographic Information Systems. Oxford University Press, Oxford.
3. Chang, K.T. (2003): Introduction to Geographic Information Systems. Tata McGraw Hill Publications Company, New Delhi.
4. Chauniyal, D. D. (2004): Remote Sensing and Geographic Information

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- Systems. (in Hindi). Sharda Pustak Bhawan, Allahabad.
5. Demers, M. N. (2000): Fundamentals of Geographic Information Systems. John Wiley and Sons, Singapore.
 6. ESRI (1993): Understanding GIS. Redlands, USA
 7. Fraser Taylor, D.R. (1991): Geographic Information Systems. Pergamon Press, Oxford.
 8. George, J. (2003): Fundamentals of Remote Sensing. Universities Press Private Ltd, Hyderabad.
 9. Girard, M. C. and Girard, C. M. (2003): Processing of Remote Sensing Data. Oxford and IBH, New Delhi.
 10. Glen, E. M. and Harold, C. S. (1993): GIS Data Conversion Handbook. Fort Collins, Colorado, GIS Word Inc.
 11. Goodchild, M.F., Park, B. O. and Steyaert, L. T. (eds.) (1993): Environmental Modelling with GIS. Oxford University Press, Oxford.
 12. Guptill, S.C., and Morrison, J.L. (1995): Elements of Spatial Data Quality. Elsevier/Pergamon, Oxford.
 13. Heywood, I. (2003): An Introduction to Geographical Information Systems, 2nd edition, Pearson Publishing Company, Singapore.
 14. Korte, G. M. (2002): The GIS Book. On Word Press: Thomson Learning, New York and Singapore.
 15. Lo, C.P. and Yeung, A. K. W. (2002): Concepts and Techniques of Geographic Information Systems. Prentice Hall of India, New Delhi.
 16. Longley, P. and Batty, M. (eds.) (1996): Spatial Analysis: Modelling in a GIS Environment. Geo-Information International, Cambridge.
 17. Longley, P., Goodchild, M.F., Maguire, D. and Rhind, D. (1999): Geographic Information Systems: Principles, Techniques, Management, Applications, John Wiley and Sons, New York.
 18. Maguire, D. J., Michael, F. G. and David, W. R. (1999): Geographical Information Systems: Principles and Application. Geo Information International, Vol.2, Longman Publication, New York.
 19. Martin, D. (1996): Geographic Information Systems: Socioeconomic Implications. Routledge, London.
- Prof. Rajendra Singh (Rajju Bhaiya) University, Prayagraj.
- 28
20. Michael, F. G. and Karan, K. K. (ed.) (1990): Introduction to GIS. NCGIA, Santa Barbara, California.
 21. Nag P. and M. Kudarath (1998): Digital Remote Sensing, Concept Publishing Company, New Delhi.
 22. Mishra H.C. (2000) GIS handbook, GIS India, Hyderabad.
 23. Reddi A. and Y. Hari Shankar (2006) Text Book of Digital Remote Sensing, B.S. Publication, Hyderabad.
 24. Siddiqui, M.A. (2005): Introduction to Geographical Information Systems, Sharda Pustak Bhawan, Allahabad.




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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: III
Paper Code:	Paper Title: Cultural Geography		Theory
Max. Marks: 75+25 = 100	Elective Paper		Credit: 4
Course Learning Outcome – learners will be able to: <ul style="list-style-type: none"> • Understand the linkages between various cultural groups. • Critically analyse contemporary Cultural issues from a geographical perspective. • Understand Cultural issues in order to engage with possible and effective planning and policy interventions. 			
UNIT			Periods
I	Concept of Culture, The Nature, Scope, approaches in Cultural Geography. The Historical development of Cultural Geography. Relationships of Culture with Environment, Resources and Technology.		15
UNIT			
II	Origin & Dispersal of Man, Types & Dispersal of Human Races; Linguistic and Religious Structure of the World. Cultural Diffusion.		15
UNIT			
III	Concept of Cultural Hearths. Major Cultural Realms and Regions of the World. Cultural Landscape and Cultural Ecology. Agricultural Practices and Innovations.		15
UNIT			
IV	Industrial and Technological Revolution and its impact on Culture. Globalization and Cultural Development. Folk Culture its Revival. Cultural Adaptation and Cultural fusion.		15

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Recommended Books:

1. Anderson, K., Domosh, M., Pile, S. and Thrift, N. (2003): Handbook of Cultural Geography, SAGE Publications, London
2. Blunt, A., Gruffudd, P., May, J., Ogborn, M. and Pinder, D. (2003): Cultural Geography in Practice, Edward Arnolds Limited, London
3. Carter, G.F. (1998) Man and the Land: A Cultural Geography, Rienhart, New York.
4. Coulborn, R. (1959): The Origin of Civilized Societies, Princeton University Press, Princeton, New Jersey.
5. Dicken, S.N. & Pitts, F.R. (1970): Introduction of Cultural Geography : A Study of Man and his Environment, Edwin & Co. Waltham, Massachusetts.
6. Dikshit, S.K. & Tripathi, R.D. (2001): Sanskrit Bhoogol, Vasundhara Prakashan, Gorakhpur.
7. Dohus, F.E. & Sommers, L.M. (ed) (1967): Cultural Geography – Selected Readings, Dunn – Donnally Publishing Corporation, New York.
8. Domosh, M., Neumann, R. P., Price, P. L. and Jordon-Bychkov, T. G. (2009): The Human Mosaic- A Cultural Approach to Human Geography, WH Freeman, New York
9. Duncan, J. S., Johnson, N. C., and Schein, R. H. (2004): A Companion to Cultural Geography, Blackwell Publishing Ltd, Oxford
10. Frazier, E.F. (1957): Race and Cultural Contacts in the Modern World; A.A. Knopf, New York.
11. Iaian, R. and Richards, P. (2003): Studying Cultural Landscapes, Oxford University Press, London
12. Jordon, G. (1995): Cultural Politics, Blackwell, Oxford
13. Mike, C. (1998): Cultural Geography, Routledge, London
14. Rostlund, F. (1988): Outline of Cultural Geography, California Book Co. Berkley.
15. Salter, C.L. (1971): The Cultural Landscape, Durbury Press, California.
16. Sopher, D.E. (1978): Geography of Religions, Prentice Hall, New Jersey.
17. Spencer, J.E. and Thomas, W.L. (1978): Introducing Cultural Geography, John Willey and Sons, New York.
18. Wagner, P.J. and Mikesell, M.W. (1962): Readings in Cultural Geography, University of Chicago Press.




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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: III
Paper Code:	Paper Title: Advanced Cartography		Theory
Max. Marks: 75+25 = 100	Elective Paper		Credit: 4
Course Learning Outcome – learners will be able to: <ul style="list-style-type: none"> • Understand co-ordinates and grid system. • Get updated knowledge of Survey, construction of Map Projections and Graphical Presentation of Statistical Data 			
UNIT			Periods
I	Measuring the Earth. Properties of sphere; The Earth: its shape and size; Coordinate reference system on the sphere; Celestial coordinates: Equatorial system, Horizon system; Geographical co-ordinates and grid system; UTM grids.		15
II	Survey: Curvature of the earth and its effect on survey and levelling; Geographical Positioning System (GPS); Trigonometrical surveying; Calculation of height by Levelling.		15
III	Map Projections: Properties, Choice and classification of map projections; Derivations of formulae for construction of: Conical equal area with One and Two standard parallels (Lambert's and Alber's); International Map projection Sinusoidal, Mollweide, and Gall's Projections.		15
IV	Graphical Presentation of Statistical Data: Graphs and Diagrams, Construction of Climograph, Ergograph, Hythergraph, Compound Pyramid Diagram, Circle and Spherical Diagram, Dispersion and Scatter Diagrams		15



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Books Recommended

1. Bailey, T. and Gatrell, A. C. (1995): Interactive Spatial Data Analysis. Longman, Harlow.
2. Dorling, D. and Fairborn, D. (1997): Mapping. Ways of Representing the World. Longman, Harlow.
3. Fraser Taylor, D.R. (1980): The Computer in Contemporary Cartography. John Wiley and Sons, New York.
4. Fraser Taylor, D.R. (ed.) (1983): Graphic Communication and Design in Contemporary Cartography. John Wiley and Sons, New York.
5. Griffith, D. A. and Amehin (1997): Multivariate Statistical Analysis for Geographers. Prentice Hall, Englewood Cliffs, New Jersey.
6. Griffith, D. A. and Amehin (1997): Statistical Analysis for Geographers. Prentice Hall, Englewood Cliffs, New Jersey.
7. Kanetkar, T.P. and Kulkarni, S.V. (1967): Surveying and Levelling, Part II, A.V.G. Prakashan, Poona.
8. Keates, J.S. (1973): Cartographic Design and Production, Longman Group Ltd
9. Mailing, D.H. (1973): Co-ordinate Systems and Map Projections. George Philip and Sons Ltd.
10. Monkhouse, F.J. and Wilkinson, H. R (1962): Maps and Diagrams, Methuen and Company Ltd. and Company Ltd., London.
11. Nag, P. (ed.) (1984): Census Mapping Survey, Concept Publishing Company, New Delhi.
12. Nair, N. B. (1996): Encyclopaedia of Surveying, Mapping and Remote Sensing. Rawat Publications., Jaipur and New Delhi.
13. Raisz, E. (1962): Principles of Cartography. McGraw Hill Books Company, Inc., New York.
14. Misra, R.P. and Ramesh, A. (1999): Fundamentals of Cartography. Concept Publishing Company, New Delhi.
15. Rhind, B. and Adams, T. (ed.) (1983): Computers in Cartography. British Cartographic Society, London.
16. Rice Oxley, M.K. and Shearer, W.V. (1929): Astronomy for Surveyors. Methuen and Company Ltd. and Company, London.
17. Robinson, A. H. H., Sale R., Morrison J. and Muehrcke, P. C (1984): Elements of Cartography. 6th edition John Wiley and Sons, New York.
18. Shaw, G. and Wheeler, D. (1994): Statistical Techniques in Geographical Analysis. Prentice Hall, Englewood Cliffs, New Jersey.
19. Singh, R. L. and Singh, Rana P.B. (1993): Elements of Practical Geography. Kalyani Publishers, Ludhiana and New Delhi. (English and Hindi editions).
20. Thrower, N. (1996): Maps and Civilisation. Cartography, Culture and Society. University of Chicago Press, Chicago.
21. Unwin, D. (1982): Introductory Spatial Analysis. Methuen and Company Ltd., London.




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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: III
Paper Code:	Paper Title: Geography of Tourism		Theory
Max. Marks: 75+25 = 100	Elective Paper		Credit: 4
Course Learning Outcome –			
Introducing relationship between geographical elements and tourism based on natural and cultural factors.			
Discuss about evolution of tourism studies in Geography and Role of infrastructure, information technology, transportation and communication in tourism promotion.			
UNIT	Basics of tourism: Definition of tourism: Factors influencing tourism: historical, natural, socio-cultural and economic: motivation factors for pilgrimages: leisure, recreation, elements of tourism, tourism as an industry.	Periods	
I		15	
UNIT	Geography of tourism: - its spatial affinity; areal and locational dimensions comprising physical, cultural, historical and economic; Tourism types: cultural tourism, eco-tourism and adventure tourism, national and international tourism; globalization and tourism.	15	
UNIT	Role of Infrastructure in Promotion of Tourism – Transport & Communication, and Markets; Information Technology. Travel Agents.	15	
UNIT	Indian Tourism: Evolution & Growth of Tourism in India: Trend of Tourism in India, regional dimensions of tourist attraction; evolution of tourism, promotion of tourism. Major tourist circuits of India.	15	
IV			

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Recommended Books:

1. Bhatia, A. K. (1991): International Tourism - Fundamentals and Practices, Sterling Publisher, New Delhi
2. Bhatia, A.K. (1996): Tourism Development: Principles and Practices, Sterling Publisher Ltd., New Delhi
3. C.Huster and H.Green: Tourism and the Environment: A Sustainable Relationship, Routledge, London, 1995.
4. C.M.Hall and S.J.Page: The Geography of Tourism and Recreation, Environment, Place and Space, Routledge, London, 1999.
5. D.Milton: Geography of World Tourism, Prentice Hall, New York, 1993.
6. D.S.Bhardwaj and M.Chaudhary (1997): Contemporary Issues in Tourism, Himalaya Mumbai.
7. Das, M. (1999): India: A Tourist Paradise, Sterling Publishers, New Delhi.
8. E.Inskeep: Tourism Planning: An Integrated and Sustainable Development Approach, Van Nostrand and Reinhold, New York, 1991.
9. G.Shaw and A.M.Williams: Critical Issues in Tourism: A Geographical Perspective, Blackwell, Oxford, 1994.
10. H.Robinson: A Geography of Tourism, Macdonald and Evans, London, 1976.
11. J. Lee: Tourism and Development in the Third World, Routledge, London, 1988.
12. N.K.Garg (1996): Tourism and Economic Development, Avishkan, Jaipur.
13. P.C.Sinha: International Encyclopaedia of Tourism Management, Vol.1-12, Anmol, New Delhi
14. Pearce, D. G. (1987): Tourism Today: A Geographical Analysis, Longman, Harlow.
15. R.K.Kaul: Dynamics of Tourism and Recreation, Inter India, New Delhi, 1985.
16. Ryan Cris (1991): Recreational Tourism: A Social Science Perspective, Routledge, London.
17. Smith, L. J. S. (2010): Tourism Analysis: A Handbook, Halstead Press, Sydney.




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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: III
Paper Code:	Paper Title: Practical		Practical
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
UNIT I	Study of Hypsographic / hypsometric curve, Isobaths, and Isohalines: definition, characteristics, and drawing.	Periods	
UNIT II		30	
UNIT III	Methods of agriculture regionalisation cropping patterns crop combinations crop concentration crop diversification degree of commercialization and crop sequence analysis.	30	
UNIT IV		30	
For Examination Break-Up of Marks- 2 exercises from Part A - 12.5 x 2 =25 marks 2 survey exercise 20 marks each - 12.5 x 2= 25 marks Practical Record =15 marks Viva voce on survey exercise = 20 marks			

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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: III
Paper Code:	Paper Title: Research Project		Project Work
Max. Marks: 75+25 = 100		Skill Development Course	Credit: 4
<p>As per the requirement of syllabus of course exercises will be performed physically, virtually, field and survey etc.</p>			




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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: IV
Paper Code:	Paper Title: Environmental Geography		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
Course Learning Outcome - Students will be able to understand <ul style="list-style-type: none"> • Basic understanding of concept Environment, Climate Change and Disaster Management. • Concept of appraisal and conservation of Environment and Natural Resources. 			
UNIT			Periods
I	Meaning and scope of environmental geography; Approaches to study of environment. Environment and society, Environment and development, Environmental perception and cognitive maps.		15
II	Definition, scope and significance of biogeography; Basic ecological principles; Geo-biochemical cycles: carbon, nitrogen, oxygen and phosphorus cycles; Biome and biomass; World distribution of plants and animals; Biodiversity: depletion and conservation.		15
III	Environmental hazards; Natural hazards: landslides, soil erosion, droughts and floods, earthquakes; Man-made hazards: technological hazards, global climatic changes, global warming, green house effects, ozone depletion, sedimentation in rivers and reservoirs		12
IV	Environmental pollution: pollutants, sources and types of pollution; Water, soil, air, and noise pollution; Solid waste disposal; Environmental pollution and health; Environmental education; Environmental impact analysis; Environmental monitoring and standards; Environmental policy and legislation; Environmental management.		18

Books Recommended

1. Anjuneyulu, Y. (2002): Environmental Impact Assessment Methodologies. B. S. Publications, Hyderabad.
2. Anjuneyulu, Y. (2004): Introduction to Environmental Science. B. Publications, Hyderabad.
3. Bilas, R. (1988): Rural Water Resource Utilization and Planning. Concept Publishing Company, New Delhi.
4. Blaikie, P., Cannon, T. and Davis, I. (eds.) (2004): At Risk: Natural Hazards, Peoples Vulnerability and Disasters. Routledge, London.




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5. Clarke, J. I., Curson, P., Kayastha, S. L. and Nag, P. (eds.) (1991): Population and Disaster, Basil Blackwell, USA.
6. Gautam, A. (2007): Environmental Geography, Sharda Pustak Bhawan, Allahabad.
7. Huggett, R. J. (1998): Fundamental of Biogeography. Routledge, London.
8. Kayastha, S.L. and Kumra, V.K. (1986): Environmental Studies. Tara Book Agency, Varanasi.
9. Khoshoo, T. N. (1981): Environmental Concerns and Strategies. Ashish Publishing House, New Delhi.
10. Kumra, V.K. (1982): Kanpur City. A Study in Environmental Pollution. Tara Book Agency, Varanasi.
11. Mathur, H. S. (2003): Essentials of Biogeography. Pointer Publication, Jaipur.
12. Nag, P., Kumra, V.K. and Singh, J. (1990): Geography and Environmental Issues at Local, Regional and National Levels. (in 3 vols.), Concept Publishing Company, New Delhi.
13. Odum, E.P. (1975): Ecology. Rowman and Littlefield, Lanham USA.
14. Rajagopalan, R. (2005): Environmental Studies: From Crisis to Cure, Oxford University Press, New Delhi.
15. Reddy, M. A. (2004): Geoinformatics for Environmental Management. B. S. Publishers., Hyderabad.
16. Saxena, K.K. (2004): Environmental Studies. University Book House Private Ltd., Jaipur
17. Saxena, H. M. (1999): Environmental Geography. Rawat Publications., Jaipur and New Delhi.
18. Saxena, H. M. (2000): Environmental Management. Rawat Publications., Jaipur and New Delhi.
19. Singh, A.K., Kumra, V.K. and Singh, J. (1986): Forest Resource, Economy and Environment. Concept Publishing. Company, New Delhi.
20. Singh, D.N., Singh, J. and Raju, K.N.P. (eds.) (2003): Water Crisis and Sustainable Management, Tara Book Agency, Varanasi
21. Singh, J. (2001): Paryavaran Evam Samvikas. Gyanodaya Prakashan, Gorakhpur.
22. Singh, O., Nag, P., Kumra, V.K. and Singh, J. (eds.) (1993): Frontier in Environmental Geography. Concept Publishing Company, New Delhi.
23. Singh, O., Kumra, V.K. and Singh, J. (1988): India's Urban Environment. Pollution, Perception and Management. Tara Book Agency, Varanasi.
24. Singh, R. B. (ed.) (1990): Environmental Geography. Heritage Publication, New Delhi.
25. Singh, Rana P.B. (ed.) (1993): Environmental Ethics: Discourses and Cultural Traditions. National Geographical Society of India, BHU, Varanasi.
26. Singh, S. (2006): Environmental Geography. Prayag Pustak Bhawan, Allahabad.
27. Singh, S. (2007): Paryavaran Bhoogol. Prayag Pustak Bhawan, Allahabad.


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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: IV
Paper Code:	Paper Title: Regional Planning and Development		Theory
Max. Marks: 75+25 = 100	Core Paper		Credit: 4
Course Learning Outcome - Students will be able to understand <ul style="list-style-type: none"> • The concept of Region and Regional Planning. • The applicability of Theories and Models for Regional Planning. • 3. To develop understanding about concept of Development, Sustainable Development and Multi level planning. 			
UNIT I	Regional concept in geography. Philosophy and purpose of planning. Concept, nature and scope of Regional Planning; Different approaches to regional planning.		Periods 12
UNIT II	Approaches to integrated regional planning at different levels: local, regional and national; multi-level planning in India: State, District and Block level planning; Planning for tribal regions. Regional development in India, Problems and Prospects		18
UNIT III	Delineation of planning regions. Planning regions of India. Planning process: sectoral, temporal and spatial dimensions. Regional development strategies – Concentration vs. Dispersal		15
UNIT IV	Decentralized planning; Panchayati Raj System, role and relationship of Panchayati Raj Institutions (Village Panchayat, Panchayat Samiti and Zila Parishad) and administrative structure (Village, Block and District).		15

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Books Recommended

1. Singh, O.P. and Pandey, D.C.: Development Planning: Theory and Practice, Gyanodya Prakashan Nainital, 1986.
2. Bhatt, L.S.: Regional Planning in India, Statistical Publishing Society, Calcutta, 1973.
3. Freidman, J. and Alonso W. Regional Development Policy: A case Study of Venezuela, MIT Press, Cambridge Mass-1966.
4. Ghosal G.S. and Krishnan G: Regional Disparities in Levels of Socio Economic Development in Punjab, Vishal Publications, Kurukshetra, 1984.
5. Kuklinski A.R. (Ed): Growth Poles and growth Centres in Regional Planning, Moutonj, The Hague, 1972.
6. Kundu A and Raza M: Indian Economy: The Regional dimension, Spectrum Publishers, New Delhi, 1982.
7. Losch, A: The Economics of Location, University Press, New Haven, 1954.
8. Mishra, R.P.: Regional Planning: Concepts, Techniques and Policies, University of Mysore, Mysore, 1969.
9. Mishra R.P. and Other (Ed): Regional Development-Planning in India: A strategy, Institute of Development Studies, Mysore,



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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: IV
Paper Code:	Paper Title: Urban Geography		Theory
Max. Marks: 75+25 = 100	Elective Paper		Credit: 4
Course Learning Outcome –			
<ul style="list-style-type: none"> • To know the scope and advancement of the Urban Geography as an established branch of the geography as a subject • To understand the spatial processes of urban growth and factors which affect the origin and development of urban settlements. • To build the theoretical understanding based on certain models related to the processes of the Urban morphology. 			
UNIT			Periods
I	Meaning, scope and significance of Urban Geography; approaches and recent trends in urban geography. Processes and trends of urbanisation. Origin and evolution of urban settlements; Distribution of urban centres.		15
UNIT			
II	Classification of urban settlements on the basis of size and function and its methods. urban morphology and land use patterns; classical models of urban growth and evolution of functional zones: concentric zone, sectoral and multiple nuclei models		15
UNIT			
III	Organization of urban space: urban morphology and land use structure, city core, commercial, industrial and residential area; core-country variations; city-region relations, urban expansion, Umland and periphery, Urban Primacy, Rank Size Rule.		15
UNIT			
IV	Urban problems-urban poverty, urban sprawl, slums, transportation, housing, urban pollution, solid waste, urban crime and environmental health. Concept of smart cities.		15

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Books Recommended

1. Bridge, B. and Watson, S. (eds.) (2000): A Companion to the City. Blackwell, Oxford.
2. Carter, H. (1995): The Study of Urban Geography. 4th ed. Reprinted in 2002 by Rawat Publications, Jaipur and New Delhi.
3. Dubey, K.K. (1976): Use and Misuse of Land in KAVAL Towns. National Geographical Society of India, Varanasi.
4. Dubey, K.K. and Singh, A.K. (1983): Urban Environment in India. Deep and Deep, New Delhi.
5. Dutt, A. Allen, K, Noble, G., Venugopal G. and Subbiah S. (eds.) (2003): Challenges to Asian Urbanisation in the 21st Century. Kluwer Academic Publishers, Dordrecht and London.
6. Hall, P. (1992): Urban and Regional Planning. Routledge, London.
7. Hall, T. (2001): Urban Geography. 2nd edition. Routledge, London.
8. Haughton, G and Hunter, C. (1994): Sustainable Cities. Jessica Kingsley, London.
9. Jacquemin, A. (1999): Urban Development and New Towns in the Third World – A Lesson from the New Bombay Experience. Ashgate, Aldershot, UK.
10. Johnson, J.H. (1981): Urban Geography, Pergaman Press, Oxford.
11. Mayer, H. and Cohn, C. F. (1959): Readings in Urban Geography, University. of Chicago Press, Chicago.
12. Paddison, R. (ed.) (2001): Handbook of Urban Studies. Sage, London.
13. Pacione, M. (2005): Urban Geography: A Global Perspective, Routledge, London and New York.
14. Ramachandran, R., (1991): Urbanisation and Urban Systems in India. Oxford University Press, Delhi.
15. Rao, B. P. and Sharma, N. (2007): *Nagariya Bhoogol*, Vasundhara Prakashan, Gorakhpur.
16. Singh. H. H. (1972): Kanpur: A Study in Urban Geography, Indrasini Publications, Varanasi
17. Singh, K. and Stainberg, F. (eds.) (1998): Urban India in Crisis. New Age International, New Delhi.
18. Singh, O. P. (1987): *Nagariya Bhoogol*, Tara Book Agency, Varanasi
19. Singh, R.L. (1955): Banaras. A Study in Urban Geography. Nand Kishore and Brothers, Banaras.
20. Singh, R.L. and Singh, Rana P.B., (eds.) (1979): Place of Small Towns in India. National Geographical Society of India, Varanasi,
21. Singh, Rana P.B. and Rana, P.S. (2002): Banaras Region. Indica Books , Varanasi.
22. Singh, S. B. (ed.) (1996): New Perspectives in Urban Geography. M.D. Publications, New Delhi




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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: IV
Paper Code:	Paper Title: Rural Geography		Theory
Max. Marks: 75+25 = 100	Elective Paper		Credit: 4
Course Learning Outcome – The students will be able to have a clear understanding of the place under study with respect to location, side and situation. 2. The students will be able to understand Settlement patterns and their importance. 3. Learning different types of Government Programs and Sustainable human Development.			
UNIT	Nature, Scope, significance, development and approaches of Rural Settlement Geography, Definition and characteristic of rural settlements, human settlement as a system. Rural-urban continuum.	Periods	
I		15	
UNIT	Rural Settlements: Definition and characteristics, Types and patterns of rural settlements in different parts of the world with special reference to India. Morphology of rural settlement with special reference to villages of Bundelkhand region of UP.	15	
UNIT	Rural service centres concept identification hierarchy and their role in special development rural house types and their distribution problems and planning of rural settlement in India	15	
UNIT	Concept and significance of rural development: Indicators of rural development. Social issues in rural settlements- poverty, housing. deprivation and inequality, Environmental issues in rural settlements water supply, sanitation, drainage and health hazards.	15	
IV			

Books Recommended

1. Maheshwari, R.S., Rural Development in India.
2. Clout, S.D., Rural Geography.
3. Husain, Majid., Agricultural Geography, New Delhi.
4. Bell, G.(Ed.), Strategies for Human Settlements: Habitat and Environment.
5. Chisholm, M., Rural Settlement and Land Use.
6. Singh, R.L. et.al: Readings in Rural Settlement Geography.
7. Singh, K.N.(Ed.) Rural Development in India: Problems, Strategies and Approaches.
8. Wanmali, Sudhir., Service Centres in Rural India.
9. Mishra, H.N.(Ed.) Rural Geography.
10. Khullar D.R. India-A Comprehensive Geography, Kalyani Pub. New Delhi.

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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: IV
Paper Code:	Paper Title: Research methods & Techniques		Theory
Max. Marks: 75+25 = 100	Elective Paper		Credit: 4
Course Learning Outcome – after this course students can - <ul style="list-style-type: none"> • Can understand scientific research in Geography. • Comprehends method and models • Explain research process and know report writing. 			
UNIT	Concept, Meaning and Objectives of Research, Types of Research, Overview of Research Process Concept and significance of research in Geography; Philosophy and methods.	Periods	
I		15	
UNIT	Defining Research Problem: Identification of Problems, Specification of Objectives, Review of Literature, and Conceptualization of Research Problem, Research Questions and Hypotheses. Research Plan.	15	
II			
UNIT	Techniques of Data Collection: Questionnaire and Interview Schedule, Interview, Observation, Case Study; Preparation of Questionnaire, Sampling Design, Selection of Respondents.	15	
III			
UNIT	Tabulation and Compilation of Data, Content Analysis, Citation, References, Bibliography, Review of Literature, Formatting of Research Reports	15	
IV			




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Books Recommended

- Ahuja, R. (2001): Research Methods, Rawat Publications, Jaipur and New Delhi.
- Bhattacharyya, D. K. (2005): Research Methodology, Excel Books, New Delhi
- Blackburn, J. and Holland, J. (eds.) (1998): Who Changes? Institutionalising Participation in Development. IT Publications, London.
- Blaxter, L.; Hughes, C. and Tight, M. (1996): How to Research. Open University Press, Buckingham.
- Crang, Mike 1999. Cultural Geography. Routledge, London.
- Daniels, P., Bradshaw, M., et al. (2000): Human Geography: Issues for the 21st Century. Prentice Hall, London, and Pearson Publishers., Singapore. Indian reprint, 2003.
- Denzin, N. K. and Lincoln, Y.S., (eds.) (2000): Handbook of Qualitative Research. Thousand Oaks CA. Sage Publications.
- Dikshit, R. D. (2003): The Art and Science of Geography: Integrated Readings. Prentice-Hall of India, New Delhi.
- Dorling, D. and Simpson, L. (eds.) (1999): Statistics in Society. Edward Arnold, London.
- Fisher, P. and Unwin, D., (eds.) (2002): Virtual Reality in Geography. Taylor and Francis, London
- Hay, I. (ed.) (2000): Qualitative Research Methods in Human Geography. Oxford University Press, New York.
- Henn, M., Mark W., and Nick F. (2006): A Short Introduction to Social Research, Vistaar Publications, New Delhi
- Eyles J. and Smith D. M. (1988): Qualitative Methods in Human Geography, Polity Press, Dales Brewer Cambridge.
- Kitchin, R. and Tate, N., (2001): Conducting Research into Human Geography. Theory, Methodology and Practice. Prentice-Hall, London.
- Kitchin, R. and Fuller, D., (2003): The Academic's Guide to Publishing, Vistaar Publications, New Delhi
- Limb, M. (2001): Qualitative Methodologies for Geographers. Issue and Debates. Edward Arnold, London.
- Lofland, J. and Lofland, L.H. (1995): Analysing Social Setting. A Guide to Qualitative Observation and Analysis. Wadsworth, Belmont, CA.
- Longley, P., Goodchild, M.F., Maguire, D. and Rhind, D. (1999): Geographic Information Systems. Principles, Techniques, Management, Applications. John Wiley and Sons, New York.
- Maso, I., Atkinson, P.A. Delamont, S. and Verhoeven, J.C. (eds.) (1995): Openness in Research. The Tension between Self and Other. Van Gorcum, Assen, Netherlands.
- Mikkelsen, B. (2005): Methods for Development Work and Research: A New Guide for Practitioners. Sage Publications, London.



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- Mukherjee, N. (1993): Participatory Rural Appraisal: Methodology and Application. Concept Publishing Company, New Delhi.
- Mukherjee, N. (2002): Participatory Learning and Action: with 100 Field Methods. Concept Publishing Company, New Delhi.
- O' Leary, Z. (2005): The Essential Guide in Doing Research, Vistaar Publications, New Delhi
- Pacione, M., (ed.) (1999): Applied Geography: Principle and Practice. Routledge, London.
- Parsons, T. and Knight, P. G., (1995): How to Do Your Dissertation in Geography and Related Disciplines. Chapman and Hall, London.
- Patrick M. and Chapman S. (1990): Research Methods(Third Edition), Routledge, London
- Peet, R. and Thrift, N. (ed.) (1989/ 2002): New Models in Geography (2 vols.). Rawat Publishers., Jaipur and New Delhi.
- Rachel, P. et al. (2001): Introducing Social Geographies. Arnold Hodder Group, London, and Oxford University Press, Oxford.
- Robson, C. (1993): Real World Research. A Resource for Social Scientists and Practitioners-Researchers. Blackwell Publishers, Oxford.
- Rogers, A. and Viles, H. A. (2003): The Student's Companion to Geography. Blackwell Publishers, Oxford. Indian reprint available.
- Sheskin, Ira, M. (1987): Survey Research for Geographers, Scientific Publishers, Jodhpur.
- Silverman, D. (1993): Interpreting Qualitative Data. Methods for Analysing Talk, Text and Interaction. Sage Publications, London.
- Singh, R. L. and Singh, Rana P.B. (1993): Elements of Practical Geography. Kalyani Publishers, Ludhiana and New Delhi. (English and Hindi editions).
- Singh, Rana P.B. and Singh, R. B. (1981): Changing Frontiers of Indian Village Ecology. National Geographical Society of India, BHU, Varanasi, Publication number 27.
- Turkle, S. (1996): Life on the Screen: Identity in the Age of Internet. Weidenfeld and Nicolson, London.
- Wolcott, H. (1995): The Art of Fieldwork. AltaMira Press, Walnut Creek, CA.
- Wright, D.B. (1997): Understanding Statistics. An Introduction for the Social Sciences. Sage Publications, London.
- Sharma, P.R., Yadava, R.S. and Sharma, V.N., (2011), Interdisciplinary Research Methods: Concepts and Studies, R.K. Books Publishers, New Delhi.

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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: IV
Paper Code:	Paper Title: Disaster management		Theory
Max. Marks: 75+25 = 100	Elective Paper		Credit: 4
Course Learning Outcome - Student will be able -			
<ul style="list-style-type: none"> • To gain a perspective of disaster and hazards. • Student keep to pursue a profession in disaster can do so by addressing real life issues of vulnerability of people. 			
UNIT	Definition, meaning and concept of disaster and hazard. Types of Hazards – Natural and man-made.	Periods	
I	Concept of Disaster Management Concept of Disaster Relief, Resume, Trigger mechanism, Response, Mitigation Risk and Vulnerability.	15	
UNIT	Natural Disaster – Geological, Water and climate, Environmental	15	
II	Man-Made disaster – Chemical, Industrial, Nuclear, Accident		
UNIT	Biological disaster – Epidemics, Pest – Attack, Cattle epidemic, Food poisoning.	15	
III	Social Response to Lazard-reduction, Identification of multiple disaster-prone areas.		
UNIT	Natural Disaster reduction Management, Decision making policy.	15	
IV	Determination of acceptable level of Risk Measures to control and mitigate disaster. Role of NDMA and SDMAS.		

Books Recommended

1. Alexander David (1993): Natural Disaster, London UCL Press.
2. Benarde Melvin (1972): Race Against Famine: Mumbai, Orient Longmans.
3. Bhargwa, Gopal (1992) Environmental Challenges and Ecological Disaster: Global perspective, Mittal, New Delhi.
4. Sharma, Vinod K. (1995): Disaster Management, National Centre for Disaster Management. Indian Institute of Public Administration, New Delhi.
5. Parasuraman, S. and P.V. Unnikrishnan (2000): India Disaster Report : Towards Policy Initiatives Oxford University Press, New Delhi
6. World Disaster Report 1997
7. Hewitt, Kenneth, (1997) Regions at Risk – A Geographical Introduction to Disaster, Longman.
8. Lodha, R.M. (1997) Environmental Ruins: The Crisis of Survival, Indus Publishing Company, New Delhi.

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M.A. /M.Sc.	Subject: Geography	Year: Second	Semester: IV
Paper Code:		Research project/ survey/Industrial/Field training.	
Max. Marks: 75+25 = 100		Skill development course	Credit: 4
As per the requirement of syllabus of course exercises will be performed physically, virtually, field and survey etc.			

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