

**Udai Pratap Autonomous College,
Department of Geography
M.A. Geography: 2 year Semester Course outline
2013-2014**

SEMESTER-I

Course Code	Title of Paper	Marks
Geog-101	Contemporary Geographical Thought	100
Geog-102	Advanced Geomorphology	100
Geog-103	Advanced Geography of India	100
Geog-104	Bio Geography	100
Geog-105	Practical	100
Total		500

SEMESTER-II

Course Code	Title of Paper	Marks
Geog-201	Environmental Geography	100
Geog-202	Geography of Resources	100
Geog-203	Population Geography	100
Geog-204	Natural Hazards Management	100
Geog-205	Practical	100
Total		500

SEMESTER-III

Course Code	Title of Paper	Marks
Geog-301	Advanced Climatology	100
Geog-302	Advance Hydrology	100
Geog-303	Geography of Tourism & Recreation	100
Geog-304	Urban and Regional Planning	100
Geog-305	Practical	100
Total		500

SEMESTER-IV

Course Code	Title of Paper	Marks
Geog-401	Research Methodology	100
Geog-402	Regional Planning and Development	100
Geog-403(A)	Rural Settlement Geography (Theory)	60
Geog-403(B)	Rural Settlement Geography (Practical)	40
Geog-404(A)	Agricultural Geography (Theory)	60
Geog-404(B)	Agricultural Geography (Practical)	40
Geog-405	Practical	100
Total		500

SEMESTER-I

Geog-101 Contemporary Geographical Thought

UNIT-I

Man-environment interaction: New environmentalism; Concepts: Space, place, environment, time, and spatial organisation; Region and regional typology; Culture and cultural landscape.

UNIT-II

Quantitative revolution and challenges; Philosophy and geography: Contributions of Vidal de la Blache and Carl Sauer; Humanistic and phenomenological geography Literary geography: landscape as text.

UNIT-III

Qualitative paradigm; Behavioural revolution: perception and cognition, mental maps; Marxism; Post-modernism; Post-structuralism and Post-colonialism.

UNIT-IV

Postcolonialism and Indian geography; Gandhi's contribution and Indian geography; Gaia theory and links to Indian literature; Ancient Indian geography and scientific outlook (e.g. cultural astronomy; Future of Indian geography problems, perspectives and prospects.

Books Recommended

1. Dikshit, R.D. (2004) : Geographical Thought, A Critical History of Ideas, Prentice Hall of India, New Delhi, (in English and Hindi) .
2. Gaile, G. and Wilmott, C./ (eds.) (2003): Geography in America at the Dawn of the 21st Century. Oxford University Press, Oxford and New York.
3. Johnston, R, Gregory D, Pratt G, Watts M. and Whatmore S. (2003): The Dictionary of Human Geography. Blackwell Publishers, Oxford. 5th edition.
4. Johnston, R.J. (1985): The Future of Geography, Methuen and Company Ltd., New York. (2003 edition published).
5. Johnston, R.J. and Sidaway, S.D. (2004): Geography and Geographers. 6th edition, Edward Arnold, London.
6. Kapur, A. (Ed.) (2001): Indian Geography Voice of Concern. Concept Publishing. Company, New Delhi.
7. Martin, G. (2005): All Possible Worlds. A History of Geographical Ideas. 4th edition, Oxford University Press, New York.
8. Mathews, J.A. and Herbert, D.T. (eds.) (2004): Unifying Geography. Common Heritage, Shared Future. Routledge, London.
9. Singh, R.L. and Singh, Rana P.B. (eds.) (1990): Literature and Humanistic Geography. National Geographical Society of India, BHU, Varanasi Publication number 37.
10. Singh, R.L. and Singh, Rana P.B. (eds.) (1992): The Roots of Indian Geography: Search and Research. National Geographical Society of India, BHU, Varanasi Publication number 39.

11. Singh, Rana P.B. (eds.) (1993): Environmental Ethics. National Geographical Society of India, BHU, Varanasi Publication number 40.
12. Singh, Rana P.B. (eds.) (1994): The Spirit and Power of Place. National Geographical Society of India, BHU, Varanasi Publication number 41.
13. Singh, Rana P.B. (2004): Cultural Landscapes and the Lifeworld. Indica Books, Varanasi.
14. Taylor, G. (ed.) (1953): Geography in the Twentieth Century. Methuen and Company Ltd. and Company, London.
15. Tuan, Yi-Fu (1977): Space and Place. The Perspective of Experience. Edward Arnold, London.
16. सिंह जे०—भौगोलिक चिन्तन के क्रम विकास ।
17. सिंह जे०— भौगोलिक चिन्तन के मूलाधार ।
18. मौर्य, एस०डी०— भौगोलिक चिंतन का इतिहास ।
19. कौशिक, एस०डी०— परिचयात्मक भूगोल
20. कौशिक, एस०डी०— भौगोलिक चिंतन
21. दीक्षित एस०के०— भौगोलिक चिंतन ।

Geog-102 Advanced Geomorphology

UNIT-I

Methods and approaches to the study of landforms some fundamental concepts of geomorphology; Concept of morphogenetic region; Recent trends in geomorphology. Theories of landscape development by W.M. Davis and W. Penck.

UNIT-II

Plate tectonics, continental drift and mountain building, Interruption in evolution of landforms. Development of landforms in various areas: Humid, Kaarst, Coastal and Arid.

UNIT-III

Drainage basin as a geomorphic unit: Morphometry of drainage basins, denudation chronology and erosion surfaces, Theories of Hill slope evolution, Geomorphic mapping techniques, models in geomorphology; soil erosion and its management.

UNIT-IV

Regional geomorphology, Geomorphic hazards and mitigation measures; Geomorphology and economic deposits; Geomorphology in engineering construction; Geomorphology in groundwater studies.

Books Recommended

1. Ahmed, E. (1985): Geomorphology. Kalyani Publishers, New Delhi.
2. Bloom. A.L. (1998/2001): Geomorphology. 3rd edition. Prentice Hall of India, New Delhi.
3. Chorley, R.J., Schumm S.A. and Sugden D.E. (1984): Geomorphology. Methuen and Company Ltd. London.
4. Dayal, P. (1994): A Text Book of Geomorpholog. Kalyani Publishers, New Delhi.

5. Fairbridge, R.W. (ed.) (1968): Encyclopaedia of Geomorphology, Reinhold Book Corporation,, New York.
6. Jog, S.R. (ed.) (1995): Indian Geomorphology (2vols.). Rawat Publications, Jaipur.
7. Kale, V. and Gupta, A. (2001): Introduction to Geomorphology. Orient Longman, Hyderabad.
8. King, C.A.M. (1966): Techniques in Geomorphology. Edward Arnold, London.
9. Singh, S. (2004): Geomorphology. Prayag Pustak Bhawan, Allahabad.
10. Sparks, B.W. (1986): Geomorphology. Longmans, London.
11. Thornbury, W.D. (2005): Principles of Geomorphology. John Wiley and Sons, New York.
12. Wooldridge, S.W. and Morgan, R.S. (1959): The Physical Basis of Geography-An Outline of Geomorphology. Longman, London.
13. Singh, C.P. (2002): Applied Geomorphology: A Study, BRP Publication Delhi.

Geog-103 Advanced Geography of India

UNIT-I

Making of India through geological times, Structure and relief; Physiographic divisions, Climate characteristics: mechanism of the Indian Monsoon; Forests: types, distribution and utilization.

UNIT-II

Population growth: trends and pattern; Population: distribution and density; ageing of Population; Sex and literacy differentials; Ethnic groups; Trends of urbanization; National population policy-2000.

UNIT-III

Agricultural characteristics and trends; Land holdings, Land tenure, land consolidation and land reforms; Infrastructure: irrigation, power, fertilizer, HYV seeds and farm technology; Green, white, blue and yellow revolutions.

UNIT-IV

Regional distribution and development potentials of mineral and power resources; New industrial policy: Globalization and liberalization; Industrial complexes and industrial regions; Transport development: rail and road; Geographical regions; Detailed study of the Middle Ganga plain and Rajasthan plain.

Books Recommended:

1. Khullar, D.r. (2006): India A Comprehensive Geography. Kalyani Publishers, New Delhi.
2. Krishnan, M.S. (1968) : Geology of India and Burma. 4th edition, Higgin Bothams, Private, Ltd., Madras.
3. Nag, P. and Gupta S.S. (1992): Geography of India, Concept Publishing, Company, New Delhi.
4. Sharma, T.C. (2003) : India Economic and Commercial Geography. Vikas Publication, New Delhi.
5. Singh, J. (2003): India: A Comprehensive and Systematic Geography. Gyanodaya Prakashan, Gorakhpur.
6. Singh R.L. (ed.) (1971): India A Regional Geography, National Geographical Society of India, Varanasi.
7. Spate, O.H.K., Learmonth, A.T.A. and Farmer, B.H. (1979) : India and Pakistan, Methuen and Company Ltd. and Company Ltd., London.
8. Tirtha, R. (2002) : Geography of India. Rawat Publications., Jaipur and New Delhi.
9. Tiwari, R.C. (2007): Geography of India, Prayag Pustak Bhawan, Allahabad.
10. Wadia, D.N. (1959): Geology of India, Macmillan and Company, London and Madras Student edition.

Geog-104 Bio-Geography

UNIT-I

Biogeography: Nature, Scope, Significance, Approaches, History, Recent Development; Concept of Ecology, Ecosystem.

UNIT-II

Historical Evolution of Plants and animals; Pattern and causes of plant and animal distribution; Major plant formations of the tropics-forests, grasslands, deserts, mangroves; Biogeographical regions of world and India.

UNIT-III

Biodiversity: concept and significance; Elements of Bio diversity, Types of Biodiversity Hot Spot, Importance of Biodiversity, Conservation of Biodiversity.

UNIT-IV

Conservation of wildlife and forests, soil conservation of forestation, reforest, social forestry, National forest policy of India, Biosphere reserves.

Books Recommended:

1. C.B. Cox and P.D. Moore: Biogeography: An Ecological and Evolutionary Approach 5th Edition, Blackwell, 1993.
2. R.J. Huggett: Fundamentals of Biogeography, Routledge, USA, 1998.
3. H. S. Mathur: Essentials of Bio-geography, Any Printers, Jaipur, 1998.
4. N. Pears: Basic Bio-geography, Education, Longman, London, 1985.
5. H. Robinson: Bio-geography, Mc Donald, London, 1982.
6. G.H. Smith: Conservation of Natural Resources, Wiley & Sons, London, 1962.
7. S.S. Negi: Biodiversity and its Conservation in India: Indus Publishing Co. New Delhi, 1993.
8. B. Seddon: Introduction to Bio-geography, Duckworth, London, 1971.

Geog-105 Practical

1. Advance exercises on geological maps: folded and faulted structures. Unconformable rock series; Hypsographic and climograph curves; Drainage basin analysis.
2. Map Projections: Study and drawing of Mercator's, Gall's, Sinusoidal, Interrupted Sinusoidal, Mollweide, Interrupted Mollweide, Gnomonic Equatorial Case, Stereographic, Lambert's Conical Equal Area and International Projection.
3. Aerial Photo Interpretation: Advantages; Types of Aerial Photographs, Methods of scale determination, Elements of aerial Photo interpretation, Calculation of stripes and photographs covering a certain area.
4. Assignment base seminar.
5. Sessional work and via-vice.\

Books Recommended:

1. Mishra, R.P. and Ramesh. A. Fundamental of Curtography, McMillan Co. New Delhi, 1986.
2. Sharma, J.P.: Prayogik Bhoogol, Sahitya Bhawan, Agra-2007.
3. Singh, R.L., and Dutt, P.K. : Elements of Practical Geography, Kalyani Publisher, New Delhi, 1979.
4. Singh, R.L. : Proyogatmak Bhoogol Ke Moot Tatva.
5. Tiwari, R.C.: Prayogik Bhoogol, Prayag Pustak Bhawan, Allahabad.

SEMESTER-II

Geog-201 Environmental Geography

UNIT-I

Meaning and scope of Environmental Geography; Approaches to study of environment; Types of environment, Environment and society, Environment and development, Environmental perception and cognitive maps.

UNIT-II

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.

UNIT-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.

UNIT-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.

Books Recommended

1. A.N. Strahler and A.H. Strahler: Geography and Man's Environment, John Wiley and Sons, New York.
2. C.C. Park: Ecology and Environmental Management, Butterworths, London.
3. L.R. Singh et al: Environmental Management, Allahabad Geographical Society, Allahabad.
4. R. Arvil: Man and Environment, Pnguin.
5. R.J. Bennet and R.J. Chorley: Environmental System- Philosophy, Analysis and Control, Methuen, London.
6. Savindra Singh: Environmental Geography, Prayag Pustak Bhawan, Allahabad.
7. T.R. Detwiler: Man's Impact on the Environment, Mc Graw Hill, New York.
8. T.R. Detwyler: and M.G. Marcus: Urbanization and Environment, Duxburg Press, California.
9. Savindra Singh: Paryavaran Bhoogol, Prayag Pustak Bhawan, Allahabad
10. W.M. Adans: Gree Development: Environment and Sustainability in the Third World, Routledge, London, 2001.
11. E.P. Odum: Fundamental of Ecology, W.B. Saunders Co. Philadelifia, 1971.
12. A.S. Mather and K. Chapman: Environmental Resources, Longman Group Ltd. U.K. 1995.
13. A. Goudie: The Nature of the Environment, Oxford, Basil Black Well, 1989.
14. K. Smith Environmental Hazards: Assessing Risk and Reducing Disaster, Routledge London, 1996.

Geog-202 Geography of Resources

UNIT-I

Concept and scope of Resource Geography; Resource: concept and types; World resources: distributional and pattern; Land, water, mineral and power resources; Non-conventional sources of energy; Human resources; Resource base and its dynamism as related to stages of cultural, technological and economic development .

UNIT-II

The Limits to Growth; Resource scarcity hypothesis; World energy crisis; Resource conservation and management; Watershed management; Sustainable development; Resources, development and international politics.

UNIT-III

Theories of Resource Uses Theory of Agricultural location; Theory of Industrial location: Weber, Hoover, and Losch; Trade blocs.

UNIT-IV

Resource regionalisation; World economic development; Concept of developed and developing nations; Concepts of North-South and First, Second, Third and Fourth Worlds. Resource regions, Population-Resource Regions.

Books Recommended

1. Burton, I. and Kates, R.W. (1978): Readings in Resource Management and Conservation. McGraw Hills, New York.
2. Ehrlich, P.r. , Ehrlich, r.H. and Holdren, J.P. (1998): Ecoscience: Population, Resources and Development. 2nd edition, Freeman and Company, San Francisco.
3. Sheppard E. and Treror I. B. (ed.) (2003): A Companion to Economic Geography, Blackwell Publication, U.K. and USA.
4. McCarty, H.M. and James B.L. (1976): A Preface to Economic Geography. Prentice Hall, New Jersey.
5. Mitra, A. (2000): Resource Studies: Shridhar Publishers., Kolkata.
6. Ramesh, A. (ed.) (1984): Resource Geography. Heritage Publishers, New Delhi.
7. Singh, J. (2000): Sansadhan Bhoogol, Gyanodaya Prakashan, Gorakhpur.
8. Singh, K.N. and Singh, J. (2003): Arthik Bhoogol Ke Mool Tatva, Gyanodaya Prakashan, Gorakhpur.
9. Todaro M.P. and Smith S.c. (2004): Economic Development, Pearson Education, (Singapore) Private Ltd. Singapore.

Geog-203 Population Geography

UNIT-I

Relevance of Population studies in Geography, Concepts, scope and methodology of population geography, Population dynamics; fertility, mortality and migration; Concepts of ageing; Young, Stationary and stable population. Recent development in population geography.

UNIT-II

Theories of Population Growth: Malthus, Marx, Optimum Population and Demographic Transition; Migration theories: Ravenstein and Everett S Lee.

UNIT-III

Problems of under, over, declining and Zero population; Population resource regions of the world; Concept of Human Development. Human Development Index. Population policies in developing and developed countries.

UNIT-IV

Case of India – Regional variation in population growth and distribution, Characteristics of population: Age-se structure, rural-urban population, literacy, work force and occupational structure; National population policy.

Books Recommended

1. Chandna, R.c. (2006): Geography of Population, Kalyani Publishers., New Delhi.
2. Clark, J.I. (1972): Population Geography. Pergamon Press, Oxford.
3. Dube, K.K. and Singh, M.B. (1994): Jansankhya Bhoogol, Rawat Publications, Jaipur ad New Delhi.
4. Singh, K.N. and Singh, D.N. (eds.) (1992): Population Growth, Environment and Development. EDSC, Varanasi.
5. Srinivasan, K, and Vlassoff, M. (2001): Population Development Nexus in India: Challenges for the New Millennium. Tata McGraw Hill, New Delhi.
6. Trewartha, G.T. (1985): Geography of Population, World, Patterns. John Wiley and Sons, New York.
7. यादव, हीरा लाल– जनसंख्या भूगोल
8. मौर्य, एस0डी0– जनसंख्या भूगोल
9. चादना, आर0सी0– जनसंख्या भूगोल

Geog-204 Natural Hazards Management

UNIT-I

Natural Hazards: concept & definition Types of natural hazards-Earthquake, Tsunamis, Volcanic eruptions, Landslides, Avalanches, Floods, famines and Droughts, Cyclones, Distribution of natural hazards; Hazard prone areas of the world and India; Man's role in natural hazard.

UNIT-II

Natural Hazards in India: Seismic zones, Tsunamis, Landslides prone areas, flood prone areas, Drought prone areas; Damager due to natural hazards in India;

UNIT-III

Some natural hazards of recent history-Earthquake-Koyna, Utterkashi, Bhuj; Tsunamis of 2005. Landslides in the Garhwal Himalays; Floods of the Ganga valley; Cyclones along Orissa Coast; Drought prone areas of India.

UNIT-IV

Management of Natural Hazards- Prediction of natural hazards; Control measures for natural hazards; Planning for natural hazards- (a) long-term policy.

Books Recommended:

1. C. Enbleton” Natural Hazards and Global Change, I.T.C. Journal, 1989, ¾, pp.169-178.
2. W.J. Petak and A.D. Atkinson: Natural Hazard Risk Assessment and Public Policy, spinger- Verlay, New York, 1982.
3. L. Tianch: Landslide Hazards Mapping and Management in China, ICIMOD, Nepal, 1996.
4. K.S. Valdiya: Environmental Geology, Tata McGraw Hill Co. Ltd. New Delhi,1987.
5. Q. Zareba and V. Mance: Landslides and their Control, Elsevier Amsterdam, 1969.
6. G.F. White (Ed.) Natural Hazards: Local, National, Global, Oxford University Press, London, 1974.
7. H.K. Gupta: Dans and Earthquakes, Elsever, Amsterdam, 1976 .
8. I. Burton et. al: The Environment as Hazards, O.P.U. New York, 1978.
9. B.A. Bolt et al (Ed.): Geological Hazards, Spinger Verlay, New York, 1950.

Geog-205 Practical

1. Statistical Methods. The noremal frequency distribution curve and its characteristics: Sampling procedures: Random, stratified random, systematic and cluster: Test of significance: Chi-square test, Student’s t-test, F-test, Analysis of variance: Analysis of time series.
2. Data Processing. Collection of data: methods, sources and types: Classification and tabulation of data: Data processing devices: Characteristics and component of a computer system: Computer languages; Retrieving and processing of data.
3. Population growth of India and the world using arithmetic and semi-log scates: Density map of India by Choropleth. Age sex structure of rural urban population of India by Superimposed pyramid. I iteracy level by Compound pyramid. Population potential map by Isopleth: Computation of HDI for India. Measurement of population concentration by cumulative curve.
4. Assignment based seminar.
5. Sessional work and viva-voce.

Books Recommended:

1. Mishra, R.P. and Ramesh. A. Fundamental of Curtography, McMillan Co. New Delhi, 1986.
2. Sharma, J.P.: Prayogik Bhoogol, Sahitya Bhawan, Agra-2007.
3. Singh, R.L., and Dutt, P.K. : Elements of Practical Geography, Kalyani Publisher, New Delhi, 1979.
4. Singh, R.L. : Proyogatmak Bhoogol Ke Moot Tatva.
5. Tiwari, R.C.: Prayogik Bhoogol, Prayag Pustak Bhawan, Allahabad.

SEMESTER-III

Geog-301 Advanced Climatology

UNIT-I

Meaning, scope and development of Climatology; Atmospheric equilibrium, adiabatic temperature change; stability and instability; Upper air circulation and jet stream; Theories of precipitation; Air mass-origin, characteristics, modification and classification.

UNIT-II

Front and frontogenesis: cyclones and anticyclones-theories about the origin of temperate cyclones; Origin of Indian Monsoon-recent views: El Niño and La Niña.

UNIT-III

Climatic Classification: Köppen, Thornthwaite and Oliver-Hidore; Major climate types and biomes; Weather analysis and Weather forecast, weather and human behaviour, weather modification.

UNIT-IV

Climatic change-causes and theories, Global warming: evidences causes and effects; Atmospheric Hazards, Disasters: Tropical Cyclones, tornadoes, thunderstorms Applied Climatology, Micro climate, urban climate, role of climate in human life.

Books Recommended

1. R.G. Chorley and R.G. Barry: Atmosphere, Weather and Climate, 1995, Methuen & Co. Ltd. London.
2. H.J. Critchfield: : General Climatology, Prentice Hall of India, New Delhi, 2002.
3. J.J. Hiddore: Global Environmental Change, Prentice Hall, New Jersey, 1996.
4. A. Miller et al: Elements of Meteorology, Merrill, and Columbus.
5. M.D. Morgon and J.M. Moran: Weather and People, Prentice Hall, New Jersey 1997.
6. J.E. Oliver and J.J. Hiddore: Climatology: An Atmosphere Science, Pearson Education India, 2003.
7. R.D. Thompson and A. Perry: Applied Climatology, Routledge: London and New York, 1997.
8. G.T. Trewartha: An Introduction to Climate, Mc. Graw Hill Series in Geography, 1954.
9. G.t. Trewartha: The Earth's Problem Climates, University of Wisconsin Press, 1981.

Geog-302 Advanced Hydrology

UNIT-I

Hydrology-meaning and definition, scope and its practical significance; Hydrological cycle Global water budget, Man's influence on the hydrological cycle.

UNIT-II

Factors affecting evaporation, transpiration, potential and actual evapotranspiration and their measurement, computation of water surplus and deficit.

UNIT-III

Determination of water balance and its significance: Sub-surface water-soil moisture, ground water occurrence storage, movement, recharge and discharge. water table fluctuation and safe yield.

UNIT-IV

Over and under utilization of water resources, water conservation; present and future perspective, watershed development, water legislation, water harvesting and water conservation programmes in India.

Books Recommended

1. R.J. Chorley: Water, Earth and Man, Methuen, London, 1967.
2. R.J. Chorley: Introduction to Physical Hydrology, Methuen, London, 1967
3. J.A. Jones: Global Hydrology: Processes, Resources and Water Management, Longman, London, 1997
4. J.R. Matter: Water Resources: Distribution, Use and Management, John Wiley, Marylane.
5. D.K. Todd: Groundwater Hydrology, John Wiley, New York.
6. K.R. Karanth: Groundwater Assessment: Development and Management, Tata Mc Graw Hill, New Delhi. 1987
7. J.V.S. Murthy: Watershed Management in India: Wiley Eastern Ltd, New Delhi, 1995.
8. R.J. Reddy: The Text book of Hydrology, Laxmi Publication, New Delhi, 1999.
9. R.A. Singh and S.R. Singh: Water Management: Principles and Practices, Tara Pub. Varanasi.
10. S.K. Sain: The Flood Problem in India, Birala Institute of Scientific Research, Economic Research Division, New Delhi.
11. A.A. Sokolar and T.B. Chapman (Eds). Methods for Water Balance Computations: An International Guide for Research and Practice, The Unesco Press, Paris, 1974.

Geog-303 Geography of Tourism and Recreation.

UNIT-I

Leisure, recreation and tourism Concept, definitions and relationships; Meaning, scope and development of geography of tourism and recreation, approaches to the study of geography of tourism.

UNIT-II

Tourism Types: Cultural, etho-coastal and adventure tourism, national and international tourism; globalization and tourism, Tourism as an industry components of tourism Impact of tourism-environmental, economic, socio- cultural.

UNIT-III

International pattern of Tourism; major tourist circuits and nodes; Some case studies-Philippines, France, Netherlands, Tourism development in India-origin and evolution, spatial pattern, problems and polices, impact on society and environment.

UNIT-IV

Planning of Tourism-conflicting issues of development, urban and rural dimensions, concepts of green tourism, eco-tourism, Sustainable tourism; state contribution in tourism development; Community participation; role of foreign capital and impact of globalization in tourism.

Books Recommended :

1. H. Robinson: A Geography of Tourism, Macdonald and Evans, London, 1976.
2. D. Milton: Geography of World Tourism, Prentice hall, New York, 1993.
3. C.M. Hall and S.J. Page: The Geography of Tourism and Recreation, Environment, Place and Space, Routledge, London, 1999.
4. A.K. Bhatia: Tourism Development, Principles and Practices, Sterling, Bagalore,1989.
5. C.M. Hall and S.J. Page: Tourism in South and South East Asia; Issues and Cases, Butterwarth Heinemann, Oxfoed, 2001.
6. N.K. Garg: Tourism and Economic Development, Avishkan, Jaipur, 1996.
7. P.C. Sinha: International Encyclopaedia of Tourism Management, Vol. 1-12, Anmol, New Delhi.
8. D.s. Bhardwaj and M. Chaudhary: Contemporary Issues in Tourism, Himalaya, Mumbai, 1997.
9. J. Lee: Tourism and Development in the Third World, Routledge, London, 1988.

Geog-304 Urban and Regional Planning

UNIT-I

Concept of planning; Types of planning; Concept of regional planning; Types of regional planning; City as unit of regional planning; Approaches to regional planning; Historical development of regional planning-developed world and developing world.

UNIT-II

Principles of regionalisation; Indications of development and data sources; measures of regional development and regional disparities; Planning processes-sectoral and spatial planning; short medium and perspective planning; Multi regional and multilevel planning.

UNIT-III

Regional development strategies: Export base theory, convergence theory, Growth poles and growth centres in regional development; Industrial dispersal and backward area development; Identification of planning regions, Regional planning strategies for backward areas hill area and tribal area.

UNIT-IV

Role of urban centres in regional planning; urban scenario in India, city regions and their problems; Problems of poorly urbanized areas, strategies for urban planning; metropolitan planning, preparation of master plans, city region planning.

Books Recommended :

1. R. Abler et al : Spatial Organisation: The Geographers View of the World, Prentice Hall, Englewood Cliffs, NJ.
2. L.S. Bhat: Regional Planning in India, Statistical Publishing Society, Calcutta, 1973.
3. J. Friedmann and W. Alonso: Regional Development and Planning-A Reader, MIT Press, Cambridge, Mass, 1967.
4. Arthur Glikson: Regional Planning and Development, Netherland Universities Foundation for International Co-operation, London, 1955.
5. E.A. J. Johnson: The Organisation pf Space in Developing Countries, Harward University Press, Cambridge, 1970.
6. A.R. Kuhlinski (Ed.) Growth Poles and Growth Centres in Regional Planning, Mouton, The Hague, 1972.
7. R.P. Mishra et al: Regional Planning: Concepts, Techniques and Policies, University of Mysore, Mysore, 1969.
8. R.P. Mishra et al.: Multi Level Planning, Heritage Publishers, Delhi, 1930.
9. Peter Hall: Urban and Regional Planning, Penguin Books Ins, New York.

10. J.G.M. Hill Shorts: Regional Planning, University Press, Rotterdam.
11. John Glasson: Regional Planning, Hutcherson, London.
12. R.P. Mishra: Development Issues of our time, Concept Pub. Co. New Delhi.
13. J. Alden and R. Morgan: Regional Planning: A comprehensive View, Leonard Hill Books, Beds, 1974.
14. J. Glassen: An Introduction to Regional Planning, Hutchron Educational, London.
15. P. Hall : Cities of Tomorrow, Updated Edition, Blackwell Publishers Ltd. Oxford, 1996.

Geog-305 Practical

1. Cartographic representation of statistical data: Water balance graph, rain dispersion graph, traffic flow cartogram, Distributional maps, isopleths choropleth, multiple dots, locational quotient and coefficient of localization.
2. Survey: Measuring horizontal and vertical angles by Theodolite; measuring angles by Sextant.
3. Field Tour and Report.
4. Assignment based Seminar.
5. Sessional work and viva-voce.

Books Recommended:

1. Mishra, R.P. and Ramesh. A. Fundamental of Curtography, McMillan Co. New Delhi, 1986.
2. Sharma, J.P.: Prayogik Bhoogol, Sahitya Bhawan, Agra-2007.
3. Singh, R.L., and Dutt, P.K. : Elements of Practical Geography, Kalyani Publisher, New Delhi, 1979.
4. Singh, R.L. : Proyogatmak Bhoogol Ke Moot Tatva.
5. Tiwari, R.C.: Prayogik Bhoogol, Prayag Pustak Bhawan, Allahabad.

SEMESTER-IV

Geog-401 Research Methodology

UNIT-I

Concept and significance of research in geography; Philosophy and methods: empiricism, positivism, behaviourism.

UNIT-II

Primary and secondary data; Data collection and arrangement; Research design; Participatory research; Framing pilot and research project; Making survey-questionnaire.

UNIT-III

Model making; Application of system theory; Application and relevance of statistical and cartographic techniques; Application of computer and GIS.

UNIT-IV

Production and arrangement of data; Analysis of data and maps; Quantitative and qualitative interpretations; Writing manuals (Arranging themes, maintaining coherence, cross-comparison, concluding, referencing, noting) Proof marks and marked proof; Writing a research paper/Report.

Books Recommended

1. Ahuja, R. (2001): Research Methods, Rawat Publications, Jaipur and New Delhi.
2. Bhattacharyya, D.K. (2005): Research Methodology, Excel Books, New Delhi.
3. Dikshit, R.d. (2003): The Art and Science of Geography: Integrated Readings. Prentice-Hall of India, New Delhi.
4. Flowerdew, R. and Martin, D. (eds.) (1997): Methods in Human Geography. A Guide for Students Doing a Research Project. Longman, Harlow.
5. Hay, I. (ed.) (2000): Qualitative Research Methods in Human Geography. Oxford University Press, New York.
6. Eyles J. and Smith D.M. (1988): Qualitative Methods in Human Geography, Polity Press, Dales Brewer Cambridge.
7. Mikkelsen, B. (2005): Methods for Development Work and Research: A New Guide for Practitioners. Sage Publications, London.
8. Mukherjee, N. (1993) : Participatory Rural Appraisal: Methodology and Application, Concept Publishing company, New Delhi.
9. Parsons, T. and Knight, P.G. (1995): How to Do your Dissertation in Geography and Related Disciplines. Chapman and Hall, London.
10. Patrick M. and Chapman S. (1990): Research Methods (Third Edition), Routledge, London.
11. Peet, R. and Thrift, N. (ed.) 1989/2002): New Models in Geography (2 Vols) Rawat Publishers, Jaipur and New Delhi.
12. Robson, C. (1993): Real World Research. A. Resource for Social Scientists and Practitioners – Researchers, Oxford, Indian reprint available.
13. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. Kalyani Publishers, Ludhiana and New Delhi. (English and Hindi editions).

Geog-402 Regional Planning and Development

MM 100

UNIT-I

Regional concept in Geography, conceptual and theoretical framework, changing concept of the region, concept of space area and locational attributes, Types of regions: Formal and functional, uniform and nodal, single purpose and composite region, regional hierarchy.

UNIT-II

Regional divisions according to variations in level of socio-economic development, special purpose regions-river valley regions, metropolitan regions, problems regions- hilly regions, tribal regions, regions of drought and floods.

UNIT-III

Approaches to delineation of different types of regions and their utility in planning. Indicators of development and their data sources measuring levels of regional development and disparities case study of India, planning regions of India.

UNIT-IV

Concept of multi-level planning, decentralised planning, peoples participation in planning process, Panchayati Raj System; role and relationship of Panchayat Raj Institutions (Village Panchayat, Panchayat Samiti and Zila Parishad) and administrative structure (Village, Block and District) Regional development in India-Problems and prospects.

Books Recommended

1. Bhat, L.S. : Regional Planning in India, statistical Publishing Society, Calcutta, 1973.
2. Bhat, L.S. et. al. : Micro Level Planning : A Case Study of Karnal Area, Haryana, K.B. Publications, New Delhi, 1976.
3. Dubey, K.K. & Singh, M.B. प्रादेशिक नियोजन विकास, 2000.
4. Friedmann, J. and Alonso, W.: Regional Development Policy-A case Study of Venezuela, M.I.T., Press Cambridge, Mass, 1966.
5. Friedmann, J. and Alonso, W. : Regional Development and Planning- A Reader, M.I.T. Press, Cambridge, Mass 1967.
6. Glikson, Arthur : Regional Planning and Development, Netherlands University Foundation for International Cooperation, London, 1955.

7. Gosal, G.S. and Krishan, G. : Regional Disparities in Levels of Socio-Economic Development in Punjab, Vishal Publications, Kurukshetra, 1984.
8. Government of India, Planning Commission : Third Five year Plan, Chapter on Regional Imbalances in Development, New Delhi, 1961.
9. Kuklinski, A.R. (ed) : Growth Poles and Growth Centres in Regional Planning, Mouton, The Hague, 1972.
10. Kundu, A. and Raza, Moonis : Indian Economy- The Regional Dimension, Spectrum Publishers, New Delhi, 1982.
11. Mishra R.P., On the Concept of Region- Regional Planning concepts, Policies and Case studies, Mysore, Prasara University, Mysore 1969.
12. Mishra R.P., Regional Planning and National Development, Vikash Publications, New Delhi 1978.
13. Mitra, A., Levels of Regional Development, Census India, Vol. 1, Part II 1961.
14. Prakash Rao, V.L.S.; Regional Planning, Bombay 1963.
15. Sengupta, P. & Sadasyuk, g., Economic Regionalization of India, Problem & Approaches, Census of Indian, Vol. 1 No. 8, 1968.
16. Singh D.K. & Routray; An approach to Micro Level Planning in Recent Trends and Concepts in Geography Vol-3 (ed) by R.B. Mandal and VNP Sinha concept, New Delhi.
17. Srivastav, V.K., Sharma, N and Chauhan, P.R.: प्रादेशिक नियोजन और संतुलित विकास, वसुन्धरा प्रकाशन, 2000
18. Sundaram, K.V. & Mishra R.P.: Multi-level planning & Intergrated Rural Development in India, New Delhi, 1980.

Geog-403 (A) Rural Settlement Geography (Theory)

MM-60

UNIT-I

Definition nature, scope, and significance of Rural Settlement Geography: Concepts and characteristics of rural settlements; Theories and models of settlement diffusion Eric Bylund (Sweden), Gunnar Olsson (Sweden), David Grossman (Nigeria), John Hudson (USA), Contributions of Banaras School.

UNIT-II

Evolution and growth of rural settlements and their causes: Old and New Worlds, Siting and location of rural settlements; Distribution, spacing, and nature of dispersion, Types and pattern of rural settlements; Morphology of villages: examples from different regions; Rural service centres: nature, hierarchy, service area, and interaction.

UNIT-III

Rural house types: Typology based on building materials, plans, uses and architectural style; House types and their characteristics in different geographical environments: Monsoon Asia and Arid zone.

UNIT-IV

Indian village: evolution and multiplicity; Regional morphological characteristics; Morphological interaction models; religio-ritual, secular-economic, and sacred-economic interlocking system; Transformation and planning of Indian village: models and plans.

Geog-403 (B) Rural Settlement Geography (Practical)

MM-40

Size of Classification Rural Settlements, Analysis of Rural Settlements; Types Patterns, Mapping of Morphology of Indian Village, Nearest Neighbor Analysis, Shape Analysis, Planning of Indian Village, Practical Record and Viva-voce.

Books Recommended

1. Eidl, R.C., Singh, K.N. and Singh, Rana, P.B., (eds.)(1977): Man, Culture and Settlement. Kalyani Publishers. New Delhi.
2. Ghosh, S. (1999): A Geography of Settlements. Orient Longman, Kolkata.
3. Hudson, F.S. (1976): A Geography of Settlements. MacDonald and Evans, New York.
4. Mitra, A. (1960): Report on House Types and Village Settlement Patterns in India. Publication Division, Govt. of India, New Delhi.
5. Mosley, M.J. (2005): Rural Development: Principles and Practice. Sage Publication, London.
6. Singh, R.L. (eds.) (1973): Rural Settlements in Monsoon Asia, National Geographical Society of India, Varanasi.
7. Singh, R.L., Singh, K.N. and Singh, Rana P.B. (eds.) (1975): Readings in Rural Settlement, National Geographical Society of India, Varanasi.

8. Singh, R.L., Singh, Rana P.B. (eds.) (1978): Transformation of Rural Habitat in Indian Perspective, National Geographical Society of India, Varanasi Pub. 19.
9. Singh, R.L., Singh, Rana P.B. (eds.) (1979): Place of Small Towns in India. National Geographical Society of India, Varanasi
10. Singh, R.L., Singh, K.N. and Singh, Rana P.B. (eds.) (1976): Geographic Dimensions of Rural Settlements., National Geographical Society of India, Varanasi
11. Singh, Rana P.B. (eds.) (1977): Clan Settlements in the Saran Plain., National Geographical Society of India, Varanasi
12. Singh, Rana P.B. and Singh R.B. (1981): Changing Frontiers of Indian Village Ecology, National Geographical Society of India, Varanasi Pub. 27.
13. Singh, R.Y. (2005): Geography of Settlements Rawat Publications, Jaipur and New Delhi.
14. Singh, S.B. (1977): Rural Settlement Geography. U.B.B.P., Publications, Gorakhpur.
15. Tiwari, R.C. (2000): Settlement Geography: in Hindi. Prayag Pustak Bhawan Allahabad.
16. Wanmali, S. (1983): Service Centres in Rural India. B.R. Publications Corporation, New Delhi.
17. Wood, M. (2005): Rural Geography: Processes, Responses and Experiences of Rural Restructuring. Sage Publication, London.

Geog-404 (A)Agricultural Geography (Theory)

MM-60

UNIT-I

Nature, scope, significance and development of Agricultural Geography. Approches to the study of agriculture geography; origin & dispersal of agriculture major agriculture hearths diffusion of agricultural innovations recent trends in agricultural geography.

UNIT-II

Determinants of Agriculture physical, economic, technological and socio-cultural, Landuse survey, selected agricultural concept and their measurements crop concentration, cropping intensity, degree of commercialization crop diversification and crop specialization agricultural efficiency and productivity, crop combination regions.

UNIT-III

Theory of Agricultural location: Von Thunen's model and its modification Concept of agricultural region, whittlesey classification of agricultural regions, Landuse and Land capability methods and their application.

UNIT-IV

Agriculture in India-Land use patterns, regional patterns of agricultural productivity in india, problems in Indian agriculture and their management and planning, Agriculture policy of India cropping pattern, Green Revolution, Need of second Green Revilution, Rainbow Revolution, Contemporary Issues-Food and nutrition hunger, Food security, Food Aid programmes. Role of irrigation Fertilize and pesticides environmental degradation, Sustainable agricultural development.

Geog-404 (B) Agricultural Geography (Practical)

Land use survey, Land use planning, Agricultural efficiency, Carrying capacity of land, Measurement of cropping intensity, crop diversification and crop concentration, crop combination region.

Books Recommended

1. Berry, B.J.L. et al.: The Geography of Economic System, Prentice Hall, New York, 1976.
2. Brown, L.R.: The Changing World Food Prospects- The Nineties and Beyond, World Watch Institute, Washington, D.C., 1990.
3. Gregor, H.P.: Geography of Agriculture, Prentice Hall, New York, 1970.
4. Grigg, D.B.: The Agricultural Systems of the World. Cambridge University Press, New York 1974.
5. Hartshorn, T.N. and Alexander, J.W.: Economic Geography, Prentice Hall, New Delhi, 1988.
6. Hussain, W.B. and Norton, R.J.C.: Agricultural Geography, Mathuen, London, 1971.
7. Safi, M. Agricultural Geography, Aligrah, 1997.
8. Singh, J. and Dhillon, S.S.: Agricultural Geography, Tata McGraw Hill Pub.: New Delhi, 1988.
9. Tarrant, J.R.: Agricultural Geography, Wiley, New York, 1974.
10. Tiwari, R.C. and Singh, B.N. : Krishi Bhoogol, Prayag Pustak Bhawan, Allahabad, 2010.
11. Singh, B.B. Agricultural Geography, (In Hindi).

Geog-405 General Practical

MM-100

1. Plotting of field book data solving problems: Problems related to surveying, corrective of bearing removing, closing error, Plotting of readings by prismatic compass and dumpy level solving three point problems.
2. Computer Application in Geography.
3. Field work and dissertation
4. Assignment Based Seminar
5. Sessional work and Viva.

Books Recommended:

1. Mishra, R.P. and Ramesh. A. Fundamental of Cartography, McMillan Co. New Delhi, 1986.
2. Sharma, J.P.: Prayogik Bhoogol, Sahitya Bhawan, Agra-2007.
3. Singh, R.L., and Dutt, P.K. : Elements of Practical Geography, Kalyani Publisher, New Delhi, 1979.
4. Singh, R.L. : Prayogatmak Bhoogol Ke Moot Tatva.
5. Tiwari, R.C.: Prayogik Bhoogol, Prayag Pustak Bhawan, Allahabad.