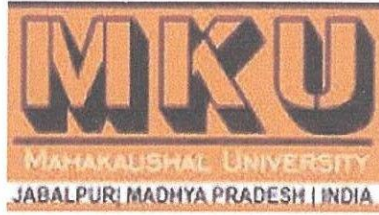


**MAHAKAUSHAL UNIVERSITY, JABALPUR**

**As per model syllabus of U.G.C. New Delhi, drafted  
by Central Board of Studies and Approved by Higher  
Education and the Governor M.P.**



**कला एवं समाज विज्ञान संकाय**

**Syllabus**

**Faculty of Art & Social Science**

**Syllabus & Prescribed Books**

**Subject- Geography**

**M.A. Semester Examination**

# **1<sup>st</sup> Semester**



# MAHAKAUSHAL UNIVERSITY JABALPUR

Department of Higher Education Govt. of M.P.  
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Approved by HE the Governor of M.P.

**Semester –I**  
**MA/M.Sc. PREVIOUS**  
**PAPER – I**  
**Geomorphology**

MG090101-T

**Course contents :-**

- Unit –I** Introduction of Geomorphology- Definition, Meaning, Nature and Scope, History of development of Geomorphology, Recent trends.
- Unit – II** Methods of study of landforms, Fundamental concepts – Geological structures and landforms – Evolution of landforms.
- Unit –III** Environmental change – Climatic change and geochronological methods. Morphogenetic Regions.
- Unit –IV** Earth Movements – Epeirogenic, Orogenic and Cymatogenetic, Isostacy
- Unit –V** Plate tectonics, Seismicity, Vulcanicity, orogenic structures with reference to evolution of Himalayas.

**Suggested Readings :-**

1. Chorley R.J. : Spatial Analysis in Geomorphology Methuen, London, 1972
2. Davis, W.M. : Geographical Essays, Dover, New York 1964
3. Sharma, H.S. (ed.) : Perspectives in Geomorphology, Concept, New Delhi 1980
4. Thornbury W.D. : Principles of Geomorphology, John W.i.ley, New York, 1960
5. Oliver, C.D. Weathering, Long man, London, 1979



# MAHAKAUSHAL UNIVERSITY JABALPUR

6. Garner, H.F. The origin of Landscape – A Synthesis of Geomorphology, Oxforx University Press, London,1974
7. सिंह, सविन्द्र : भू आकृति विज्ञान, वसुंधरा प्रकाशन, मेरठ
8. कौशिक, एस. डी. : भू आकृति विज्ञान, रस्तोगी, मेरठ
9. शर्मा, हरिशंकर, प्रमिला कुमार : भू आकृति विज्ञान, म.प्र. हिन्दी ग्रंथ अकादमी, भोपाल
10. ममोरिया और न्याति : भू आकृति विज्ञान, शिवलाल, आगरा
11. राठौर, भरतसिंह : भू-वैज्ञानिक संरचनाएँ, म.प्र. हिन्दी ग्रंथ अकादमी, भोपाल।



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**Semester –I**  
**MA/M.Sc. PREVIOUS**  
**PAPER – II**  
**Economic Geography**  
**MGOG 0102-T**

## **Unit –I**

Scope, content and recent trends in economic geography, relation of economic geography with economics and other branches of social sciences. Location of economics activities and spatial organization, classification of economics. Sector of economy (primary, secondary and tertiary).

## **Unit –II**

Factors of localization of economic activities : Physical, social, economics, and cultural, concepts and techniques of delimitations of agriculture region, crop combination and diversification. Von Thune's model and its modification.

## **Unit –III**

Classification of industries : Resources based on foot-loose industries. Theories of industrial localization – weber, Losch and Isard : case studies of selected industries – Iron and steel, Aluminum.

## **Unit –IV**

Modes of transportation and transport cost : accessibility and connectivity, Typology of market, network in rural society, market system in urban economy, role of market in the development of trade and commerce.



# MAHAKAUSHAL UNIVERSITY JABALPUR

## Unit –V

Economic development of India. Regional disparities, Impact of green revaluation on Indian economy, globalization and Indian economic its impact on environment.

### Suggested Readings :-

Berry B.J.L. : Geography of market centers and retail distribution, prentice hall New York 1967

Chatterjee, S.P. : Economic geography of Asia, Allied Book Agencies, Calcutta.

1984

Draze, J and Sen A India : Economic development and social opportunities, oxford university press, New Delhi 1996

सिंह के एन एवं सिंह जे आर्थिक भूगोल के मूलतत्व ज्ञानोदय प्रकाशन, गोरखपुर 2001

श्रीवास्तव वी.के. एवं राव वी.पी. – आर्थिक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर, 2001

सिन्हा बी.एन.पी. एवं अन्य आर्थिक भूगोल राजेश पब्लिकेशन्स, नई दिल्ली 2000



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**Semester –I**  
**MA/M.Sc. PREVIOUS**  
**PAPER – III**  
**Geography of India (Physical & Resources)**

MG06 0103-T

## Unit –I

India : Characteristics of location, Unity and diversity. Major terrain units and their characteristics, drainage system and their functional significance to the country.

## Unit –II

The Indian monsoon, regional and seasonal variation of weather, climatic division : Soil types – their characteristics, distribution and problems : forest resources and their conservation.

## Unit –III

Mineral and power resources – reserves, production and problems of conservation of major minerals.

## Unit –IV

Water Resources – potential of water resources, their regional distribution and utilization – development and spatial pattern. Resource regions of India.

## Unit –V

Population – number, distribution and growth with special reference to post – Independence period and its implication, Literacy and education – spatial patterns. Urbanization and characteristics of Indian cities.



# MAHAKAUSHAL UNIVERSITY JABALPUR

## Suggested Readings :

1. Das P.K. : The Monsoon. The National book Trust of India, New Delhi.
2. Deshpande, C.D. : India – A Regional Interpretation, Northern Book Centre, New Delhi.
3. Mukherjee, A.B. & A. Azazuddin India – Culture, Society & Economy, Inter India New Delhi.
4. Singh Jagdish India, Gyanoday Gorakpur
5. Singh R.L., ed. India – A Regional Geography, N.G.S. India Varanasi, 1971
6. Tiwari R.C. Geography of India Allahabad : Prayag Pustak Bhawan, 2003
7. अग्रवाल पी.सी. भारत का भूगोल एशिया प्रकाशन कम्पनी रायपुर
8. तिवारी विजय कुमार : भारत का भूगोल, हिमालय पब्लिकेशन, मुम्बई 2000
9. बसंत सुरेश चन्द्र : भारत का वृहद भूगोल, मीनाक्षी प्रकाशन, मेरठ
10. तिवारी, विश्वनाथ –भारत का भौगोलिक स्वरूप राम प्रसाद एण्ड सन्स।
11. प्रमिला कुमार, मध्यप्रदेश : एक भौगोलिक अध्ययन, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल।
12. सिंह जगदीश : भारत का भूगोल, ज्ञानोदय प्रकाशन, गोरखपुर।



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**Semester –I**  
**MA/M.Sc. PREVIOUS**  
**PAPER – IV**

**History of Geographical Thoughts**

MGOG0104-T

- Unit I** The field of geography : Definition, aim, scope and nature of geography. Its place in the classification of sciences. Geography as a social science and natural science. Selected concepts in the Philosophy of geography, distribution. Relationships, interactions, areal differentiation and spatial organization.
- Unit II** Development of geographical thought in ancient periods : Greek, Arab, Roman geographers. Geographical knowledge in Ancient India.
- Unit III** Contribution of various schools of thought in modern geography (Geographers of Nineteenth Century) The German School – Ritter, Humbolt, Ratzal, The French School – Blache, Brunche, The Americans School – Sample, Davis, Harbertson, the British School, School, Mackinder.
- Unit IV** Environmental Determinism, Possibilism and Neo-Determinism.
- Unit V** Dualism in Geography : Systematic and Regional geography, Physical and Human Geography. The Myth and reality about dualism.



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## Suggested Readings

1. Hartshome R. : Perspectives on nature of Geography Rand Me Nally & Co. 1959
2. Husain M. : Evolution of Geographic Thought, Rawat Publication Jaipur 1984
3. Minshull R. : The Changing Nature of Geography Hutchinson University Library London, 1970
4. Dikshit R. D. (ed.) : The Art & Science of Geography, Readings, Prentice Hall of India, New Delhi, 1994
5. Taylor, G. (ed) :Geography in Twentieth Century Methuen, London, 1951
6. Wooldridge S.W. : The Spirit & Purpose of Geography Hutchinson, London, 1955
7. कौशिक, एस.डी. : भौगोलिक विचारधाराएँ एवं विधि तंत्र, मेरठ
8. जैन, एस.एस. : भौगोलिक चिंतन एवं विधि तंत्र, साहित्य भवन, आगरा, 1987
9. सिंह जगदीश: भौगोलिक चिंतन के मूल आधार, ज्ञानोदय, गोरखपुर
10. Mishra H.N. : Research Methodology & Paradigma

**M.A. Geography (Practical):**

**MGOG0105-P : Geomorphology I**

**Unit I — Map Reading and Terrain Analysis**

- Interpretation of topographical sheets
- Identification of landforms from contours
- Slope analysis methods
- Relief profiles and cross-sections
- Gradient calculation

**Practical Work:**

- Toposheet exercises
  - Relief profile drawing
  - Slope mapping
- 

**Unit II — Morphometric Techniques**

- Drainage basin analysis
- Stream ordering (Strahler method)
- Drainage density & bifurcation ratio
- Hypsometric curve and integral
- Basin shape indices

**Practical Work:**

- Drainage basin mapping
  - Morphometric calculations
  - Hypsometric graph preparation
- 

**Unit III — Geomorphic Mapping**

- Landform identification using maps & satellite images

- Geomorphic symbols and mapping techniques
- Preparation of geomorphology maps
- Use of aerial photographs (introductory)

**Practical Work:**

- Landform mapping sheet
  - Photo interpretation exercises
- 

**Unit IV — Sediment and Soil Analysis (Basic Lab)**

- Grain size analysis (theoretical demo/data)
- Soil profile description
- Field identification of weathering forms
- Slope processes observation

**Practical Work:**

- Soil texture chart use
  - Field observation record
- 

**Unit V — Field Survey & Geomorphic Report**

- Field techniques in geomorphology
- Field sketching and slope measurement
- Landform field identification
- Field report writing

**Practical Work:**

- Field survey notebook
- Geomorphic field report submission

**References:**

- Savindra Singh — *Geomorphology*

- Strahler & Strahler — *Physical Geography*
  - Goudie — *Geomorphology: The Basics*
  - Monkhouse & Wilkinson — *Maps and Diagrams*
  - Chorley, Schumm & Sugden — *Geomorphology*
-

## **MGOG0106-P : M.A. Geography (Practical): Economic Geography – II**

### **Unit I — Thematic Cartography of Economic Data**

- Representation of economic data
- Choropleth maps
- Dot maps
- Proportional symbol maps

#### **Practical Work:**

- Population/resource distribution maps
  - Industrial location maps
- 

### **Unit II — Agricultural Geography Techniques**

- Crop combination methods (Weaver method)
- Crop concentration index
- Agricultural productivity mapping
- Land use analysis

#### **Practical Work:**

- Crop combination calculation
  - Agricultural region mapping
- 

### **Unit III — Industrial Location Analysis**

- Location quotient (LQ)
- Industrial concentration index
- Industrial region delimitation
- Weber's theory (applied exercises)

#### **Practical Work:**

- LQ calculations

- Industrial pattern maps
- 

#### **Unit IV — Transport and Trade Analysis**

- Flow maps and desire lines
- Network analysis basics
- Accessibility index
- Transport density calculation

#### **Practical Work:**

- Flow line maps
  - Transport network mapping
- 

#### **Unit V — Field Survey & Economic Data Report**

- Field survey methods for economic activities
- Questionnaire design
- Market/industrial survey
- Data tabulation and report writing

#### **Practical Work:**

- Field survey project
- Data tables and charts
- Practical record file

#### **References:**

- R.L. Singh & S.D. Maurya — *Economic Geography*
- Alexander — *Economic Geography*
- Hartshorne & Alexander — *Economic Geography*
- Monkhouse & Wilkinson — *Maps and Diagrams*
- Misra & Puri — *Indian Economy* (for applied data work)

# **2<sup>nd</sup> Semester**



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**Semester –II**  
**MA/M.Sc. PREVIOUS**  
**PAPER – I**  
**Climatology**  
**MG090201-T**

- Unit I** Nature and scope of climatology and its relationship with meteorology, Composition, mass and structure of the atmosphere.
- Unit II** Insolation heat balance of the earth, green house effect ; vertical and horizontal distribution of temperature.
- Unit III** Atmospheric motion : Forces controlling motion of air vertical motion, local winds, jet stream. Monsoon winds, El Nino, cyclones, General circulation in the atmosphere.
- Unit IV** Atmospheric moisture : Humidity, evaporation, condensation, precipitation : formation, types, acid rain, world pattern of precipitation.
- Unit V** Climatic classification of Koppen, and Thornwaite, Major Climates of the world tropical, temperate, desert and mountain. Climate.

**Suggested Readings :**

- Berry, B.J. L. and Chorley, P.J. Atmosphere weather and climate, routledge, London and new York, 1993
- Critchfield, J.S. General Climatology Prentice Hall, India, 1993
- Peterson, Introduction to meteorology McGraw Hill Book London, 1969
- Lal, D.S. Climatology chaitanya publication, Allhabad, 1986



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M9090202-T

Semester -II

MA/M.Sc. PREVIOUS

PAPER - II

## Resource Management

- Unit I** Meaning, nature and classification of resources, culture and resources.
- Unit II** Resource appraisal – methods and techniques, land evaluation – concept and methods.
- Unit III** Resource allocation, concept, methods and techniques : Perspectives of resource development : Conservation of resources : meanings, principles philosophy and approaches of resource conservation.
- Unit IV** Concept of resource management, theories of resource management; difference between resource development, conservation and management.  
Evaluation of social costs and benefits, status of common property resources : perception. Decision – making in resource management.
- Unit V** Use and misuse of resources : global and Indian scenario, resource development policies in India. Environmental perception in resource management, impact assessment : natural hazards and risk management ; sustainable resource management.



# MAHAKAUSHAL UNIVERSITY JABALPUR

## Suggested readings :

1. Burton, I. And R.W. Kates : Readings in Resource Management and conservation. Chicago Univ. Press. 1965
2. Chorley, R.J. ed. : Water, Earth and Man, Methuen, London 1969
3. Cook, R.U. & J.C. Doornkamp : Geomorphogy in Environmental Management. Oxford 1973
4. Dawson J.A. & J.C. Doornkamp, eds : Evaluating the Human Environment. Edward Arnold, London, 1965.
5. Firey, W. I. Man, Mind and Lan : A Theory of Resource Use. Free Press, Glencoe, 1960
6. F.A.O of U.N. : A Framework for Land evaluation. Soil Bullet 32, Rome, 1979
7. Holechek, J.L. et al : Natural Resources : Ecology, Economics and Policy.
8. Kates, R.W. & I. Burton, eds : Geography Resources and Environment : Vol. I & II. University of Chicago Press, Chicago 1986.
9. Maritino, R.L. : Resource Management Mc Graw Hills, London 1969.
10. Mitchell, Bruce : Geography and Resource Analysis, Longman, London 1979.
11. Owen, S. & P.L. Owens : Environment Resource & Conservation : Combridge University Press, New York 1991.



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Semester –II  
MA/M.Sc. PREVIOUS  
PAPER – III

Geography of India : Economy and Regions

MG090203-T

- Unit I** Economy : An overview of Indian economy and impact of globalization on it. Cultivated lands – land use patterns, major crops and problems of agriculture.
- Unit II** Technological development in agriculture – Green revolution and its consequences : productivity of agriculture – determinants and pattern : agricultural regionalization of India.
- Unit III** Industry – Industrial development ; and overview; locational factors and spatial pattern of major industries in India – iron and steel, engineering goods, textiles, chemicals, cement, sugar and paper ; industrial regions of India.
- Unit IV** Transport and trade : Development of transport network, different mode of transport and their significance, internal and international trade of India-composition and change.
- Unit V** Regions of India – Basis of regional division ; macro and meso regional division of India by OHKS pate and R.L. Singh; detailed study Narmada Basin, Malwa plateau, Bundelkhand upland, Chhatisgarh Basin and Marusthali.



# MAHAKAUSHAL UNIVERSITY JABALPUR

## Suggested Readings:-

1. Das P.K. : The Monsoon. The National book Trust of India, New Delhi.
2. Deshpande, C.D. : India – A Regional Interpretation, Northern Book Centre, New Delhi.
3. Mukerjee, A.B. & A. Azazuddin India – Culture, Society & Economy, Inter India New Delhi.
4. Singh Jagdish ; India, Gyanoday Gorakpur
5. Singh R.L., ed. India – A Regional Geography, N.G.S. India Varanasi, 1971.
6. Tiwari R.C. Geography of India Allahabad : Prayag Pustak Bhawan, 2003
7. अग्रवाल पी. सी. भारत का भूगोल एशिया प्रकाशन कम्पनी रायपुर
8. तिवारी विजय कुमार : भारत का भूगोल, हिमालय पब्लिकेशन, मुम्बई 2000
9. बंसल सुरेश चन्द्र : भारत का वृहद भूगोल, मीनाक्षी प्रकाशन, मेरठ ।
10. तिवारी, विश्वनाथ—भारत का भौगोलिक स्वरूप राम प्रसाद एण्ड सन्स ।
11. प्रमिला कुमार, मध्यप्रदेश : एक भौगोलिक अध्ययन, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल ।
12. सिंह जगदीश : भारत का भूगोल, ज्ञानोदय प्रकाशन, गोरखपुर ।



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**Semester –II**  
**MA/M.Sc. PREVIOUS**  
**PAPER – IV**  
**Geography of Environment**

MG0G0204-T

- Unit I** Environment : Meaning, definition, concepts and theories related to environment.  
Components of Environment : Classification and their interdependent relationship.
- Unit II** Development of the environmental studies and their approaches. Development of Environmentalism in Geography. Environment and Development.
- Unit III** Ecological concepts : Ecosystem : meaning, definition, concept and components. Main terrestrial ecosystems of the world – forests and agriculture. Geography as human ecology.
- Unit IV** Environmental hazards – natural and man induced hazards.
- Unit V** Environmental pollution : meaning, definition, nature and types – air, water, noise and other.

**Suggested Readings :**

1. Agarwal, Anil and Sunita Narain, Dying Wisdom : The Fourth Citizen Report, Center for Science and Environment, New Delhi, 1998.
2. Burton, I. : R.W. Kates & G.F. Whaley. The Environment as Hazards. O.U.P. New York, 1978.
3. Cartledge, Bryen, Population and the Environment. , O.U.P. New York 1995.
4. Chandna, R.C. : Environment Awareness. Kalyani Publishers, New Delhi, 1998.



# MAHAKAUSHAL UNIVERSITY JABALPUR

5. Dawson, J. and J.C. Doornkamp, eds : Evaluating the Human Environment. Edward Arnold, London 1975.
6. Detwyler, J.R. : Man's Impact on Environment. Pelican, 1970.
7. Edington, J.M. & M.A. Edington : Ecology and Environmental planning. Chapman & Hall, London 1977.
8. Goudie, Andrew. The Human Impact on The Natural Environment.
9. Blackwell oxford. U.K. 1994.
10. Jain, R.K. L.V. Urban and G.S. Stacy. Environmental Impact Analysis – Dimension in Decision – Making. Van Nostrand Reinhold Co. New York, 1977.
11. Khosho, T.N. Environmental Concepts and Strategies. Ashish Publishing House, New Delhi.
12. Khanna, B.K. All you wanted to know about Disasters. New Delhi : India Publishing Agency 2006.
13. Mohan, M. Ecology and Development. Rawat Publications, Jaipur, 2000
14. Munn, R.E. Environmental Impact Assessment : Principles and Procedures. John Wiley & Sons, New York, 1979.
15. Narain Sunita. The Citizen Fifth Report. Centre for science and Environment, New Delhi, 2003
16. Mukerji A. and V.K. Agnihotri. Environment and Development. Concept Pub. Co. New Delhi, 1993.
17. Rudig, Wolfgang. Environmental Policy. Edward Elger Publishing Ltd, U.K. 1998.
18. Saxena, H.M. Environmental Geography. Rawat Publications. Jaipur, 2000
19. Saxena, H.M. Environmental Management Rawat Publications. Jaipur, 2000
20. अवस्थी एन एम एवं आर पी तिवारी पर्यावरण भूगोल मध्यप्रदेश हिन्दी ग्रन्थ अकादमी, भोपाल, नेगी, पी एस पारिस्थितिकीय विकास एवं पर्यावरण भूगोल रस्तोगी एण्ड कम्पनी, मेरठ 1995
21. रघुवंशी अरुण और चन्द्रलेखा रघुवंशी पर्यावरण तथा प्रदूषण मध्यप्रदेश हिन्दी ग्रन्थ अकादमी, भोपाल 1989
22. सविन्द्र सिंह पर्यावरण भूगोल प्रयोग पुस्तक सदन इलाहाबाद
23. नेगी, पी. एस. पारिस्थितिकीय विकास एवं पर्यावरण भूगोल, रस्तोगी एण्ड कम्पनी, मेरठ
24. तिवारी विजय कुमार – पर्यावरण पारिस्थितिकी हिमालय पब्लिकेशन, दिल्ली – 1998



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Semester –II  
MA/M.Sc. PREVIOUS  
Practical Geography - I

M9090205-P

Unit – 1	-	Excursion
Unit -2	-	Tour Report /Village survey report



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**Semester –II**  
**MA/M.Sc. PREVIOUS**  
**Practical Geography – II**  
MG090206 – P

- Unit I** Relief Profile, methods of slope analysis.
- Unit II** Block diagrams, Hypsographic curve.
- Unit III** Computer cartography – mapping and diagrams techniques
- Unit IV** Survey by Indian Tangent clinometers.
- Unit V** Survey by Abney level and sextant.

**Suggested Readings :**

1. Monkhouse F.J. Maps and Diagrams, Methen, London.
2. Singh R.L. – Practical Geography
3. Konetker & Kullkarni : Surveying & leveling part – I
4. Chiploonkar : Geological maps.
5. र्मा, जे. पी. : प्रायोगिक भूगोल, रस्तोगी, मेरठ।



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Semester –II  
MA/M.Sc. PREVIOUS  
Project

# 3<sup>rd</sup> Semester

## M.A.Semester III

### MGOG0301-T Oceanography

#### Unit I: Introduction to Oceanography

- Meaning, scope and importance of Oceanography
- Branches of Oceanography: Physical, Chemical, Biological and Geological
- Origin and evolution of oceans
- Theories related to the origin of ocean basins
  - Continental Drift Theory
  - Plate Tectonics
  - Sea Floor Spreading

#### Unit II: Ocean Floor Configuration

- Major relief features of the ocean floor
  - Continental shelf
  - Continental slope
  - Continental rise
  - Abyssal plains
  - Mid-oceanic ridges
  - Ocean deeps and trenches
- Submarine canyons and seamounts
- Distribution and characteristics of major oceans
  - Pacific Ocean
  - Atlantic Ocean
  - Indian Ocean

#### Unit III: Physical and Chemical Properties of Sea Water

- Physical properties of sea water
  - Temperature
  - Density
  - Pressure
  - Light and sound
- Chemical properties of sea water
  - Salinity
  - Composition of sea water
  - Distribution of salinity
- Heat budget of the oceans

## Unit IV: Ocean Movements

- Ocean waves
  - Types and characteristics
- Tides
  - Types of tides
  - Causes of tides
- Ocean currents
  - Causes of ocean currents
  - Types of currents
  - Major ocean currents of the world
- El Niño and La Niña (basic concept)

## Unit V: Marine Life and Ocean Resources

- Marine life and biological zones of the oceans
- Coral reefs
  - Formation, types and distribution
- Ocean deposits
  - Classification and significance
- Marine resources
  - Living resources (fisheries)
  - Non-living resources (minerals, petroleum)
  - Energy resources (tidal, wave and ocean thermal energy)
- Conservation and sustainable management of ocean resources

## References / Books

1. Savindra Singh – *Oceanography*
2. D.S. Lal – *Oceanography*
3. K. Siddhartha – *Oceanography: A Brief Introduction*
4. A.N. Strahler & A.H. Strahler – *Introducing Physical Geography*
5. Goh Cheng Leong – *Physical Geography*



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Semester –III  
MA/M.Sc. Final  
Paper – II  
URBAN GEOGRAPHY  
MG060302-T

- Unit I** Nature and scope of Urban Geography, Different approaches and recent trends in Urban Geography ; origin and growth of urban settlements : bases and process of urbanization and development ; classification of urban settlements on the basis of size and function.
- Unit II** Urban system : Urban growth and theories, Urban hierarchy, Central place Theory of Christaller and Losch. Contributions of Indian scholars to the studies of urban settlements. Urban economic base : basic and non-basic functions, input-output models, concepts of dualism : colonial and post-colonial structure.
- Unit III** Urban morphology – city core, commercial, industrial and residential areas ; modern urban landscape. Morphology of Indian Urban settlements and its comparison with Western urban settlements.
- Unit IV** Land use – models : concentric zone theory, sector model, multiple nuclei model ; core-country variations, city-regions, Urban expansion, umland and periphery. Contemporary urban issues.
- Unit V** Urban polity and planning : development of medium and small sized towns, planning for new wards, city planning, green belts, garden cities, urban policy ; contemporary issues in urban planning ; globalization and urban planning in the Third World, urban land use planning.



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## Suggested Readings :

- Alam, S. Manzoor : Hyderabad – Secunderabad : Twin cities. Asia Publishing House, Bombay, 1964.
- Berry, B.J.L. & F.F. Horton : Geographic Perspectives on Urban systems. Prentice Hall, Englewood Cliffs, New Jersey, 1970.
- Carter, H. : The study of Urban Geography. Edward Arnold Publishers, London, 1972
- Chorley, R.J.O. & P. Haggett, eds. : Models in Geography. Methuen, London, 1966.
- Dickinson, R.E. : City and Region Routledge, London 1964.
- Duncan, O.O. : Metropolis and Region. John Hopkins press, Baltimore, 1960. Gibbs, J.P. : urban Research Methods. D. Von Nostrand Co. Inc. Princeton, New Jersey, 1961.
- Hauser, Philip M. and Schnore Leo, eds.: The study of urbanization. Wiley, New York, 1965.
- Johnson, J.H. : Urban Geography. Pergoman press, London 1967. Kundu, Amitabh : Urban Development and Urban Research in India. Khanna Publication, 1992. Madhav, P., ed. : Contributions in Geography, Vol. Vii, Urban Geography. Heritage, New Delhi, Mayer H.M. & C.F. Kohn, eds.: Readings in Urban Geography. University of Chicago Press 1955. Mumford, L.: Culture of cities. McMillan & Co. London, 1958.
- Nagia, Sudesh : Delhi Metropolitan Region – A study in settlement Geography. Rajesh puf-ation, 1976.
- Rbanisation in India : Spatial Dimensions. Concept Publishing Co., New Delhi.



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MG090303-T

Semester -III

MA/M.Sc. Final

Paper - III

Geography of Tourism

- Unit I** Basics of Tourism definition of tourism, factors effecting tourism, historical, natural Socio-cultural and economic, motivating factors for pilgrimages : leisure, recreation, elements of tourism as an industries.
- Unit II** Geography of tourism – its spatial affinity, areal and locational dimensions comprising physical, cultural, historical, and economic, tourism : cultural, eco-ethno-costal and adventure tourism, national and international tourisms, globalization and tourism.
- Unit III** Indian tourism : regional dimension of tourist attraction : evolution of tourism, promotion of tourism.
- Unit IV** Infrastructure and support system – accommodation and supplementary accommodation; other facilities and amenities; Tourism circuits – short and longer detour action-agencies and intermediaries – Indian hotel industry.
- Unit V** Impact of tourism; physical economic and social perceptual positive and negative impacts : Environmental laws and tourism-current trends, spatial patterns and recent changes; role of foreign capital.

## Suggested Readings :-

Bhatia, A.K. Tourism development : Principles and practices New Delhi; Sterling 1996.



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**Semester –III**

**MA/M.Sc. Final**

**Paper – IV**

**Agriculture Geography**

**MG090304-T**

- Unit I** Nature scope and significance of Agricultural geography, approaches to the study of agricultural geography; commodity, systematic and regional; origin and dispersal of agriculture.
- Unit II** Determinants of agricultural land use; physical, economic, social, institutional and technological. Theories of agricultural location based on several multi-dimensional factors, von Thunen's theory of agricultural location and its recent modifications.
- Unit III** Land use and land capability classification ; concepts and measures of agricultural productivities, agricultural efficiency and crop combination, diversification and specialization.
- Unit IV** Agricultural typology and regions ; Kostrovickis scheme of agricultural typology critical review of whittlesey's classification of agricultural regions, method of agricultural regionalization.
- Unit V** Agriculture in India-Land use and changing cropping pattern. Regional pattern of productivity in India. Green revolution and its impact, white revolution; food deficit and food surplus regions; Specific problems in India agriculture and their management, Agricultural policy in India.

**Suggested Readings :-**

Noor Mohamad, ed, New Dimensions in Agricultural Geography.



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Semester –III  
MA/M.Sc. Final  
Paper – V  
Practical Geography – I

MG090305-P

Preparation of base map with the use of survey instrument Resection by plane table.

Prismatic compass survey : Measurement of included angles and Adjustment of closing error by Bowditch method.

Field mappings of the features of Land use.

Tour report : Village survey report.



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Semester -III  
MA/M.Sc. Final  
Paper - VI  
Practical Geography - II  
MG090306-P

# **4<sup>th</sup> Semester**

## M.A. Semester IV

### MGOG040-T Research Methodology in Geography

#### Unit I: Nature and Scope of Research in Geography

- Meaning and objectives of research
- Nature and significance of geographical research
- Types of research
  - Basic and applied research
  - Qualitative and quantitative research
- Interdisciplinary approach in geographical research
- Scientific method in geography

#### Unit II: Research Design and Formulation of Research Problem

- Research design: meaning and types
- Identification and formulation of research problem
- Review of literature: meaning, objectives and sources
- Hypothesis:
  - Meaning and characteristics
  - Types of hypothesis
  - Testing of hypothesis
- Research variables and concepts

#### Unit III: Data Collection and Sampling Techniques

- Types of data
  - Primary data
  - Secondary data
- Methods of primary data collection
  - Field survey
  - Observation
  - Questionnaire and interview
- Sources of secondary data
  - Census reports
  - Government publications
  - Research journals and reports
- Sampling techniques
  - Probability sampling
  - Non-probability sampling
- Sample size and sampling errors

## Unit IV: Data Processing, Analysis and Representation

- Data processing and classification
- Tabulation of data
- Statistical techniques in geographical research
  - Measures of central tendency
  - Measures of dispersion
  - Correlation (basic concept)
- Graphical and diagrammatic representation
- Cartographic techniques and thematic mapping
- Use of GIS and Remote Sensing in geographical research (basic introduction)

## Unit V: Research Report Writing and Ethics

- Structure of research report / dissertation
  - Introduction
  - Objectives
  - Methodology
  - Analysis and findings
  - Conclusion
- Referencing and bibliography
- Citation styles (APA / MLA – basic idea)
- Research ethics and plagiarism
- Use of computers and software in research

## References / Books

1. Kothari, C.R. – *Research Methodology: Methods and Techniques*
2. Clifford, N.J. & Valentine, G. – *Key Methods in Geography*
3. Hennink, M., Hutter, I. & Bailey, A. – *Qualitative Research Methods*
4. Johnston, R.J. – *Methods in Human Geography*
5. Misra, R.P. & Ramesh, A. – *Fundamentals of Cartography*



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MG090402-T

Semester -IV

MA/M.Sc. Final

Paper - II

**Geography of Health**

- Unit I** Definition, Nature and Significance of Health Geography, Development of Health Geography, its distinction from Medical Sciences, relation with other allied sciences as well as social sciences.
- Unit II** Sources of disease incidence data and other related information – primary and secondary sources. Elementary human Anatomy with special reference to respiratory and digestive systems of human body.
- Unit III** Ecology of diseases and disease epidemiology. Pathological, environmental social and cultural and economic factors responsible for causation of diseases and other ill –health conditions.
- Unit IV** Pollution syndrome – various types of pollution and their role in disease incidences – Air Pollution and respiratory health disorders water pollution and water borne diseases.
- Unit V** Classification of diseases. Basis of diseases on the basis of various effects of classification, major classifications. International classification of diseases. Role of WHO in classification of world diseases.



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## Suggested Readings :-

- Banerji, B. & J. Hazra : Geo-Ecology of Cholera in West Bengal. University of Calcutta, 1980.
- Cliff, A. & P. Haggett : Atlas of Disease Distribution. Basil Blackwell, Oxford, 1989.
- Digby, A. & L. Stewart, eds : Geoflora, Health and welfare. Routledge, New York.
- Hazra, J, ed. : Health Care Planning in Developing Countries. University of Calcutta, 1997.
- Learmonth, A.T.A. : Patterns of Disease and Hunger – A Study in Medical Geography. David and Charles, Victoria, 1978.
- Learmonth, A.T.A. : Disease Ecology. Great Britain, 1988.
- May, J.M. : Studies in Disease Ecology. Hafner Pub. New York, 1961
- May, J.M. : Ecology of Human Diseases. M.D. Pub., New York, 1959.
- May J.- The World Atlas of Diseases. Nat. Book Trust, New Delhi, 1970.
- Chisholm : Medical Geography. Methuen, London, 1972.



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**Semester –IV**  
**MA/M.Sc. Final**  
**Paper – III**  
**Regional Planning & Development**

MG060403-T

- Unit I** Regional concept of geography, conceptual and theoretical framework, changing concept of regions, concept of space. Types of region; Formal and functional; Uniform and nodal single purpose and composite regions in the context of planning ; regional hierarchy.
- Unit II** Approaches to Delineation of different types of regions and their utility in planning. Physical. Physical regions, resource region, regional divisions according to variations in levels of socio-economic development; special purpose regions-river valley regions, metropolitan regions, problem regions tribal regions of droughts and floods.
- Unit III** Planning process – spectral, temporal and spatial dimensions; short term and long term perspectives of planning. Planning for regions development and multi-regional planning in a national context.
- Unit IV** Regional development strategies-concentration vs dispersal, case studies for plans of developed and developing countries; evaluation of regional plans of India. Indicators of development and their data sources, Measuring levels of regional development and disparities case study of India.



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**Unit V** Concept of Multi-level planning; decentralized planning; peoples participation in the planning process; panchayat raj system role and relationship of panchayati raj institution (Village panchayat, panchayat simiti and Zila parasisid) and administrative structure (Village, Panchayat, block & district). Regional development in India – problems and prospects.

**Suggested Readings :-**

Abler, R. et al : Spatial Organization – The Geographer's view of the world. Prentice Hall. Bhat, L.S. regional planning in India Statistical. Pub. Society, Calcutta 1973.



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Semester –IV  
MA/M.Sc. Final  
Paper – IV B (Optional)  
Remote Sensing Techniques

MG090404-T

**Unit I** Historical Development of Remote Sensing, Relevance of remote sensing in geography, Remote, in geography, Remote sensing systems : Platforms, sensors, radiation records.

**Unit II** Air photos and photogrammetry : Types of Air Photos Scales and ground coverage of air photos, Air photogrammetry system – Films, Filters, aerial cameras, Film exposures.

**Unit III** Elements of vertical photographs, relief displacement image Parallax, stereoscopic air photo interpretation, shape, size, pattern tone texture shadows, site.

**Unit IV** Satellite remote sensing : Platforms of satellite remote sensing-LANDSAT, SPOT, RADARSAT IRS, INSAT : Principles and geometry of scanners, orbital Characteristics of satellite remote sensing.

**Unit V** GIS – (Geographical Information System) :- GIS system – Definition of a Geographical information system, Scope of Geographical in information system, Elements of Geographical Information. System Methodology of GIS produce.



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## Suggested Readings

1. American Society of Photogrammetry : Manual of Remote Sensing ASP, Falls Chukh, V.A. 1983.
2. Barrett E.C. and L.F. Curtis : Fundamentals of Remote Sensing and Air Photo Interpretation, Memillion, New York 1992.
3. शर्मा जे. पी. प्रयोगात्मक भूगोल रस्तोगी पब्लिकेशन 2008/09
4. तिवारी राम चन्द्र, त्रिपाठी सुधाकर प्रयोगात्मक भूगोल प्रयोग पुस्तक भवन इलाहाबाद।



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Semester -IV  
MA/M.Sc. Final  
Paper -- V  
Practical Geography - VII

MG090405 - P

Dumpy level – leveling, contouring Tour Report – Village survey report

Theodolite Survey



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Semester -IV  
MA/M.Sc. Final  
Paper - V  
Practical Geography - VIII

MG090406-P

Interpretation of Geological maps. Traffic Survey



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**Semester –IV**

**MA/M.Sc. Final**

**PAPER – PROJECT**

**M9090407-P**

Title – Project for P.G. Level

1. Stud of a manufacturing unit
2. Study of a Crop
3. Environmental Study
4. Pollution study
5. Water Problem
6. Tourism Development
7. 7 – Socio –Economic Environmental Study
8. Impact of a scheme on society
9. Mineral Study
10. Traffic Connectivity