



ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA BILASPUR (C.G.)

SEMESTER SYLLABUS

M.A. GEOGRAPHY

SCHEME OF EXAMINATION & DISTRIBUTION OF MARKS

SEMESTER – I

Paper No.	Title of the Paper(s)	Internal Assessment	Term End Exam	Total Marks
1.	Geomorphology	20	80	100
2.	Climatology	20	80	100
3.	Evolution of Geographical thoughts	20	80	100
4.	Geography of India	20	80	100
Prac-1	Instrumental Survey	-	-	100
			Total	500

SEMESTER – II

Paper No.	Title of the Paper(s)	Internal Assessment	Term End Exam	Total Marks
1.	Applied Geomorphology	20	80	100
2.	Oceanography	20	80	100
3.	Geographical Methodology	20	80	100
4.	Geography of Chhattisgarh	20	80	100
Prac-1	Cartography	-	-	100
			Total	500

SEMESTER – III

Paper No.	Title of the Paper(s)	Internal Assessment	Term End Exam	Total Marks
1.	Rural Settlement Geography	20	80	100
2.	Resource Geography	20	80	100
3.	Regional Planning & Development	20	80	100
4.	Population Geography with special reference of world	20	80	100
Prac-1	Statistical Technique & field survey	-	-	100
			Total	500

SEMESTER – IV

Paper No.	Title of the Paper(s)	Internal Assessment	Term End Exam	Total Marks
1.	Population Geography with special reference of India	20	80	100
2.	Urban Geography	20	80	100
3.	Agricultural Geography	20	80	100
4.	Resource Conservation & Management	20	80	100
Prac-1	Advanced Cartography	-	-	100
			Total	500



SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER - I

**PAPER- I
GEOMORPHOLOGY**

M.M. 100

OBJECTIVE

- It being a course at the interface of Geography with earth, the student has to be sensitized to the background knowledge of geography and environmental sciences.
- The objectives of the course is one to familiarize the students with the need for understanding of geomorphology with reference to set and fundamental concepts, focusing on the unity of geomorphology in the earth materials and the process with or without an element of time process component of geomorphology is segmented into the internal and external processes of landscape evolution.
- Finally, a few selected applications of geomorphology to societal requirements and quality of environment are dealt with.

COURSE CONTENTS:

UNIT- I

Nature and scope of geomorphology

Fundamental concepts- Geological structures and landforms, multi cyclic and polygenic evolution of landscapes, concepts of threshold.

UNIT- II

Interior of the earth

Origin of the continents and ocean Basin (Wegner Theory and Plate Tectonic theory)

Earth movement

Epeirogenic, Orogenic and Cymatogenic earth movements.

Forces of Crustal Instability : Faults & Folds

UNIT-III

Isostasy, vulcanicity, earth quack

UNIT- IV

Exogenic processes

Concepts of gradation, agents and processes of gradation, causes, types and classification of weathering, mass movement emotional and depositional processes and resultant landforms and soil formation.

Suggested Readings :-

1. Chodey. R.J. Spatial Analysis in Geomorphology, Methucn, London 1972.
2. Dury. G,H. The Face to the Earth, penguin Harmocdsworth 1959,
3. Fairbridge. R.W. Encyclopedia of Geomorphology. Reanholdis New York. 1968.
4. Garner, H.F. The Origin of landscape A Synthesis of Geomorphology, Oxford University Press, London, 1974
5. सिंह, सविन्द्र के. : भू-आकृति विज्ञान, शारदा पुस्तक भवन, इलाहाबाद
6. यादव तथा रामसुरेश : भू-आकृति विज्ञान, ग्रन्थ कानपुर
7. गायत्री प्रसाद : भू-आकृति विज्ञान



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M.A. GEOGRAPHY

SEMESTER - I

**PAPER- II
CLIMATOLOGY**

M.M. 100

OBJECTIVES:

The main objectives of the course is to provide.

Understanding of weather phenomena and generation of climatic phenomena and Dynamics of global climate.

COURSE CONTENTS:

Unit I

Nature and scope of climatology and its relationship with meteorology. Composition and structure of atmosphere. Isolation and heat balance of the earth. Green house effect.

Temperature: - Vertical, horizontal and regional distribution.

Unit 2

Air pressure, Atmospheric motion :- Permanent wind, Local wind, and Jet stream, and monsoon winds. Humidity, evaporation

Unit 3

Precipitation: Types world pattern precipitation, Acid rain. Concept of Air masses and fronts. Cyclones., EL Nino, and La Nina.

Unit 4

Classification of climates: - koppen, & Thorntwaite, General classification of world climate(temperate, desert, and Tropical)

Climate change geological and historical times, evidences, possible causes. and global warming, Applied climatology Depletion of ozone layer.

SUGGESTED READINGS :-

- 1 . Barry, RG. and Chorley P.J. : Atmosphere, Weather and Climate, routledge London and New York, 1998.
2. Critchfield JH : General Climatology. Prentice Hall, India. New Delhi. 1987.
3. Das, P.K. : Monsoons National Book Trust. New Delhi, 1987.
4. Fein, J, S. and stephens, P. N. : Monsoons Wiley Interscience.
- 5, India Met. Deptt. Climatological Tables of Observatories in India. Govt. of India 1968.
6. La! D.S. : Climatology, Chaitanya publication, Allahabad. I 986.
7. Lydoiph. P.E. : The Climate ofthe Earth. Rowman. 1985.
8. Menon P.A. : Our Weather, N.B.T. New Delhi, 1989.
9. Peterson, S. : Introduction to Meteorology Mc Graw Hill Book. London. 1969.
- 1 0. Robinson. : P.J. and Henderson 8: Contemporary Climatology. Henlow. 1999.



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER - I

EVOLUTION OF GEOMORPHICAL THOUGHTS

PAPER – III

M.M. 100

OBJECTIVES:

To introduce the students to the philosophical and methodological foundations of the subject and its place in the world of knowledge. To familiarize them with the major landmarks in development of geographic thought at different periods of time.

Course Contents :-

Unit-I

• The field of geography :- Its place in the classification of science, geography is a social science and natural science. Selected concepts in the philosophy of geography :-

Unit -II

Distribution, Relationship, Interactions, areal differentiation and spatial Organization. Dualism in geography :- Determinism! possibilism systematic / Regional.

Unit - III

Classical Age :- The beginning of geography in classical age contribution of Greek and Roman to geography, with special reference to the work of Herodotus, Strabo, Ptolemy and Ptolemy. Geography in ancient Indian period. Middle age :- Geography in the middle age contribution by Arab geographers - Al-Beruni, Idrisi Ibn Batuta, Ibn Khaldun. Geography in Ancient period, Geography in Middle Age .

Unit-IV

Contribution of the modern geographers :-

- (i) German school of geographic thought Hornboldt Retter, Rich thofen & Ratzal.
- (ii) French School of geographic thought - Blache, Brunhes.
- (iii) American geographic thought - Davis, Sampson.
- (iv) British geographic thought - Mackinder, Hartshorn, Stamp
- (v) Study of geography in modern India.

SUGGESTED READINGS :-

1. Abler, Ronald; Adams, John S. Gold, Peter: Spatial Organization: The Geographers view of the world, Prentice Hall, N. J. 1971.
2. Au S. M. : The Geography of Puranas, Peoples Publishing House, Delhi. 1968.
3. Amcoco, Douglas : An Introduction to Scientific Reasoning in Geography, John Wiley, U.S.A. 1971.
4. Dikshit, R. D. (ed.) : The Art & Science of Geography Rand Mc Nally & Co. 199.
5. Hershorne, R. : Perspectives on Nature of Geography Rand Mc Nally & Co. 1959.
6. Husain, M. : Evolution of Geographic Thought, Rawat Pub. Jaipur, 1984.
7. Johnston, R. 3. : The Future of Geography, Methuen, London, 1988.
8. Au, S. M. : Arab Geography.
9. Taylor, G. : Geography in the 20th Century.
10. Dikshit, R. D. : Geographical Thought : A Contextual History of Ideas, Prentice Hall of India, New Delhi.
11. Harvey D. : Explanation in Geography.
12. त्रिपाठी एवं बिरले : भौगोलिक चिन्तन का विकास एवं विधि तंत्र
13. कौसिक एस.डी. : भौगोलिक विचारधाराओं का इतिहास एवं विधितंत्र
14. हुसैन माजिद : भौगोलिक चिंतन
15. पण्डा बी.पी. एवं वर्मा एल.एन. : भौगोलिक चिंतन का विकास एवं विधितंत्र



SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER - I

**PAPER- IV
GEOGRAPHY OF INDIA**

M.M. 100

UNIT- I

India in the context of Asia in the world-

Land, major Taran units and their characteristics, drainage system, the Indian monsoon, regional and seasonal variation of weather, climatic division, soil types and their characteristics, distribution problems, forest resources and their conservation.

UNIT- II

Mineral and power resources reserves-

Production and problems of conservation of major minerals, population numbers, distribution with special reference to post independence period and its implications, literacy and education, special urbanization and characteristics of Indian cities

UNIT- III

Economy-

An overview of Indian economy and impact of globalization on 8 cultivated land use pattern, characteristics and problems of agriculture comma irrigation development of spatial pattern, technological development in agriculture green revolution and its consequences for agricultural regionalization of India.

UNIT- IV

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 Transport and trade International and internal trade of India composition and change. Regions of India- Basic of regional division, macro and micro regional divisions of India by O H K spat end RL Singh

SUGGESTED READINGS

- 1- Das, P. K. The Monsoon. National Book Trust of India, New Delhi.
- 2- Government of India The Gazetteer of India. Vol. I : The land and people. Publication Division, New Delhi.
- 3- Deshpande, C.D. : India- A Regional Interpretation. Northern Book Centre, New Delhi.
- 4- Mukherjee, A. B. & A. Aijazuddin, eds. India-Culture, Society & Economy. Inter india, New Delhi.
- 5- Sharma, T. C. & O. Coutinho Economic and Commercial Geography of India, Vikash Publication , New Delhi.
- 6- Singh, Jagdish India. Gyanodaya, Gorakhpur.
- 7- Singh, M. B. Industrial Development in India. Lotus, Varanasi, 1985.
- 8- Singh, R.L. : India : A Regional Geography, National Geographical Society of India, Varansi, 1971
- 9- तिवारी विजय कुमार : भारत का वृहद भूगोल, हिमालय पब्लिकेशन, मुम्बई, 2000
- 10- तिवारी, आर.सी. : भारत का वृहद भूगोल



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

M.A. I SEMESTER PRACTICAL INSTRUMENTAL SURVEY

1. surveying- importance of instrumental surveying and application -survey instruments.
2. **Prismatic Compass-**
Method of prism pass surveying: Radiation, inter section and traverse, correction of bearing, Elimination the closing error, Bow ditch method.
3. **Plane table-**
Plan preparation, methods of plane table surveying - radiation, inter section, traverse & resection method.
4. **Dumpy level:-**
Meaning of the terms used in leveling Method of leveling:- simple leveling, differential leveling. Profile.
5. **Theodolite:-**Meaning of terms used in theodolite surveying, measurement of horizontal distance & vertical height, accessible and non accessible method, digital surveying equipment- Electronic Distance measurement (EDM) instruments, total station, global positioning system (GPS).

SUGGESTED READINGS-

- 1.. Monk house, F.J. & H.R. Wilkinson : Map and Diagrams, methouen, London.
2. Singh, L. R. : Practical Geography.
3. शर्मा, जे.पी., :प्रायोगिक भूगोल
- 4.चौहान, पी.आर. : प्रयोगात्मक भूगोल
- 5.यादव, हीरालाल, प्रायोगिक भूगोल
- 6.चंद्रकारपी. सर्वेक्षण विधि तंत्र, एस. शारदा पब्लिकेशन, बिलासपुर
- 7.SarkarAashish Practical Geography



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M.A. GEOGRAPHY

M.A. Geography Semester I shall consist the following papers :

1. The M.A. Semester -1 examination in Geography shall consist of 500 marks.
2. The theory papers shall be of three hours duration.
3. Candidates will be required to pass separately in theory and practical examination.
4. a) In the practical examination the following shall be allotment of time and marks.
 - i) Practical Record 20% Marks
 - ii) Survey (up to six hours) 70% Marks
 - iii) Viva on i and ii 10% Marks
- b) The external and internal examiners shall jointly submit marks.
- c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.



SEMESTER SYLLABUS

M.A. GEOGRAPHY

**SEMESTER II
APPLIED GEOMORPHOLOGY
PAPER-I**

COURSE CONTENTS :-

Unit-I

Applied Geomorphology :-

Nature scope and subject matter of applied of Geomorphology. Quantitative applied Geomorphology :- morphometry.

Unit-II

The concept of cycle of erosion:- Erosion cycle according to Davis & Penck. Normal cycle of erosion, Rejuvenation and polycyclic Landscape.

Unit-III

Geomorphic Process :

Dynamic of Fluvial, glacial, Aired, marine and karst process and resulting land forms. Slope evolution : concept of Davis, Penck, wood & king. Denudation chronology and erosion surface Drainage system and pattern.

Unit-IV

Geomorphic Application :- .

Geomorphic application in applied geomorphology; Land use and agricultural planning, urban geomorphology, Hydrogeomorphology, Environmental Geomorphology.

SUGGESTED READING :- . . .

1. Dexcy, F. 1962. Applied geomorphology, S. Afr. Geogr. J. 44, 3.24.
2. Douglas, I 1971 : Dynamic equilibrium in applied geomorphology : two case studies S earth science J. 5.29-35.
3. Horton, R. E. 1932. Drainage basin Characteristics Trans Am. Geophys 13,350-61.
4. King C.A.M. 1966. Techniques in geomorphology.London : Edward Arnold.
5. Morsisawa, M (ed) 1981. Quantitative geomorphology, London, george Allen &Unwin. .
- 6 .Ricc , R . J . I 9 7 7 .Fundamental o f geomorphology.London Lorgman.
7. Seti,, S. A. 1972 River morphology. stroudsberg pa Dowden. Hutchinson & Rose.
8. Sparks. B. V. 1972. B.W. 1972.G geomorphology 2 and edn.London Lorgman.
9. Strahier, A. M. 1954. Statistical analysis in gdnorphic research 3. Geol. 62.1.25.
10. Singh savindra;2007 :- Geomorphology:- Vāsüñdfr&a, Prakasan, Allahabad.
11. सिंहसविन्द्र : भू-आकृतिविज्ञान



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-II OCEANOGRAPHY

PAPER II

OBJECTIVE

The objective of the course are to introduce students to the many facets of Oceans, Such as, evolution of the oceans, Physical and chemical properties of sea water, atmospheric and oceanographic circulation, The fascinating world of marine life and the characteristic of marine environment and the impact of man on the marine environment.

COURSE CONTENT -

Unit-I

Nature and scope & Oceanography, History of Oceanography. Distribution of land and water. Major features of ocean basin :- Continental shelf, Continental slope, deep sea plains and Oceanic deep.

Unit 2

Physical and chemical properties of sea water, Temperature and salinity, density of ocean water. Inter link between atmospheric circulation and circulation patterns in the Oceans :- Surface currents, waves and tides.

Unit 3

Marine biological environmental :- Biozones of the Ocean, Types of organisms, plankton, Nekton and Benthos, Ocean Deposits and Formation of Coral reefs

Unit 4

Food and mineral resources of the sea. Impact of Human on the marine Environment Major Ocean routes of the world

Suggested Reading :-

- 1 Davis. Richard J. A. Oceanography. An introduction to the Marine Environment. Wm C. Brown Iowa 1986.
2. Gross, M. Grant Oceanography for Geographers 1962.
3. Lal D. S. : Climatology and Oceanography. sharda pustak Bhavan. Allahabad.
4. Sharma. R. C. "The Oceans" Rajesh N. Delhi 1985.
- 5 .Ummerkutty. A.NIP. Science of the Oceans and Human Life. NBT New Delhi 19
6. सिंहसविन्द्र : जलवायु विज्ञान
7. लालडी.एस. : जलवायुविज्ञान
8. गौतमअल्का : जलवायुविज्ञान



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-II GEOGRAPHICAL METHODOLOGY PAPER - III

COURSE CONTENTS :-

Unit-I

Development of - quantitative revolution in geography. Pattern of quantitative revolution, importance of the techniques. Scientific explanations : Routes Scientific explanations (Inductive/Deductive): Type of explanations, cognitive description : cause & effect .

Unit-II

Analytical approaches in Geography : Locational Analysis : Concept of locational analysis . (Von Thunen Theory ,Weber Theory) Spatial Analysis : Importance, methods and pattern of spatial analysis, System analysis and ecological analysis.

Unit-III

Laws , theories and model : use of model, characteristic necessity of models , types of models, .

Unit-IV

Philosophical background of geographical thinking: Dualism in geography, positivism and its reactions, Behaviouralism, paradigms of geography. Recent trends in geography.

SUGGESTED READINGS :-

1. Abler, Ronald; Adams, John S. Guld, Peter : Spatial Organization : The Geographers view of the world, Prentice Hall, N. 3. 1 97 1 .
2. Au S. M. : The Geography of Puranas, Peoples Publishing House, Delhi. 1966.
3. Amedeo, Douglas : An Introduction to Scientific Reasoning in Geography, John Wiley, U.S.A. 1971.
4. Dikshit, R. D. (ed.) : The Art & Science of Geography Integrated Readings, Prentice Hall of India, New Delhi 1994.
5. Hartshorne, R. : Perspectives on Nature of Geography Rand McNally & Co. 1959
6. Husain, M. : Evolution of Geographic Thought, Rawat Pub. Jaipur, 1984.
7. Johnston, R. J. : Philosophy and Human Geography, Edward Arnold. London, 1983.
8. Johnston, R. J. : The Future of Geography, Methuen, London, 1988.
9. Minshull, R. J. : The Changing Nature of Geography, Hutchinson University Library, London, 1970.
10. पण्डा बी.पी. एवं वर्मा एल.एम. : भौगोलिक चिंतन का विकास एवं विधितंत्र
11. त्रिपाठी एवं बिरले : भौगोलिक चिंतन का विकास एवं विधितंत्र



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-II

GEOGRAPHY OF CHHATTISGARH

PAPER IV

OBJECTIVES:

The aim of the course is to finalize the student with meso micro region of the country. To prepare the student for understanding the Chhattisgarh region as a dynamic entity emerging from the interaction of the physical and regional structure over time.

COURSE CONTENT

Unit -1

Physical elements of geography of Chhattisgarh :- Location, Extent, Geology, Physical Features, Climate, Drainage, Soil and Vegetation.

Unit -2

Agriculture : Major characteristics, Important Crops -Paddy, Wheat, Maize, Kodo Kutaki , Pulses, Oilseeds, Sugarcane. Agricultural Region and Major agriculture development schemes, Irrigation, Major irrigation projects.

Unit 3

Minerals and power resources.

Iron ore, Bauxite, Manganese, Coal, Hydroelectricity industrial development in Chhattisgarh with special reference to iron and steel industries, Cement Industry, Textile Industry, agriculture based industries, Aluminum, Thermal power, Industrial belts of Chhattisgarh.

Unit 4

Population Structure: Growth and density of population, Caste structure, literacy, occupation, Tribes of Chhattisgarh Transport, Tourism Culture and regional development::

SUGGESTED READINGS :-

1 - Das, P. K. : The Monsoon. National Book Trust of India, New Delhi.

2 Government of India : The Gazetteer of India. Vol. 1 : The land and people. Publication Division, New Delhi.

3- Deshpande, C.D. : India A Regional Interpretation. Northern Book Centre, New Delhi.

4- Mukherjee, A. B. & A. Aijazuddin, eds. :IndiaCulture, Society & Economy. Inter India, New Delhi.

5-.Sharma, T. C. & O.Countinho : Economic and Commercial Geography of India, Vikash Publication , New Delhi.

6 Singh, Jagdish : India. Gyanodaya, Gorakhpur.

7 त्रिपाठी के. एवंचन्द्राकरपी. : छत्तीसगढ़ एटलस, एस. शारदा पब्लिकेशन बिलासपुर

8 त्रिपाठी के. एवंचन्द्राकरपी. : छत्तीसगढ़ का भूगोल, एस. शारदा पब्लिकेशन बिलासपुर

9. तिवारी विजय कुमार : छत्तीसगढ़ एक भौगोलिक अध्ययन



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M.A. GEOGRAPHY

SEMESTER-II

PRACTICAL

OBEJECTIVES:

To apprise the student with latest trends in the development of cartography as a tool in mapping thematic and quantitative data to facilitate spatial analysis and synthesis. To enhance the skill of the students in field of survey and to understand the basic

1. Principles of Map making & concept of Cartography
2. Topographical information: International Series, South East Asia Series, Indexing, Classification and interpretation of topographical sheets, profiles
3. Morphometric Analysis: Hypsometric curve, Altimetry cursive, Histogram, Clinograph, Slope Analysis, Wentworth's Method, smith method.
4. Graphs and diagrams: Triangular Diagram, Ergo graph. Rainfall dispersion diagram Proportional circle, Spheres and cubes diagram.
5. Map Projection construction of world map projection.

SUGGESTED READINGS-

- 1.. Monk house, F.J. & H.R. Wilkinson : Map and Diagrams, methouen, London.
2. Singh, L. R. : Practical Geography.
3. शर्मा, जे.पी., :प्रायोगिक भूगोल
- 4.चौहान, पी.आर. : प्रयोगात्मक भूगोल
- 5.यादव, हीरालाल,प्रायोगिक भूगोल
- 6.चंद्रकारपी. सर्वेक्षणविधि तंत्र, एस. शारदा पब्लिकेशन, बिलासपुर
- 7.सरकारआशीष, प्रायोगिकभूगोल,

M.A. Geography Semester-II shall consist the following papers :

1. The M.A. Semester - II examination in Geography shall consist of 500 marks.
2. The theory papers shall be of three hours duration.
3. Candidates will be required to pass separately in theory and practical examination.
4. a) In the practical examination the following shall be allotment of time and marks.
 - i) Lab work (up to three hours) 70% Marks
 - ii) Practical Record 20% Marks
 - iii) Viva 10% Marks
- b) The external and internal examiners shall jointly submit marks.
- c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-III

PAPER-I

RURAL SETTLEMENT GEOGRAPHY

OBJECTIVES :

The objective of the course are to motivate the students :-

- To understand the growth and evolution of rural.
- To recognize and analyse the distributions, patterns, morphology and functions of rural settlements.
- To analyse and suggest rural settlement planning in India.
- To examine the prevailing social and environmental issues in rural areas of India.

COURSE CONTENTS

Unit 1

Nature, scope significance and development of settlement Geography. Relationship of settlement Geography with other social Science Concept of settlement Geography.

Unit 2

Meaning, origin, Evolution approaches of settlement. Types of Rural settlement. Rural morphology:- Cultural landscape, elements of rural settlement in different Geographical Environments with special reference to India.

Unit 3

Rural House & their Types; field, patterns origin, evolution, size .social-spatial structure of Indian villages. Size and spacing of Rural settlements.

Unit 4

Size and spacing of Rural Settlement, Morphometry of Rural Settlement, Study of Rural Settlement with reference to C.G. Rural Service Centre and their Identification, Rural problems and planning.

SUGGESTED READINGS >

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



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-III

PAPER-II

GEOGRAPHY OF RESOURCES

Course Contents:

UNIT I

Nature, scope and significance of Geography of Natural Resources. Definition and concept of natural resources as related to cultural, economic and technological development stages and perceptions.

UNIT II

Classification of natural resources according to renewability, increasability, availability and distribution conditions.

UNIT III

Characteristics and distribution pattern of major natural resources - soils, forests, minerals and water ; natural vegetation - biotic successions, major biotic regions of the world. Biomass,

UNIT IV

Resource region of the world and India.& Chhattisgarh

Books Recommended

1. Ali, S.A. : Resources For Future Economic Growth, Vikas Publishing House Pvt. Ltd., New Delhi, 1979.
2. Duncan, G. : " Resource Utilization and the Conservation Concept" in Readings in Economic Geography, New York, 1967.
3. Singh, K.N. and Singh, J.: Arthik Bhoogol Ke Multatva, Tara Press, Varanasi, 1982
4. Smith, G.H. (ed.): Conservation of Natural Resources, John wiley and sons, New York, 1950.
5. Stringer, E. and Davies, J.S.: Geography of Resources, Carsell, London, 1966.
6. Zimmemian, E.W.: World Resources and Industries, Harper, New York.



ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA BILASPUR (C.G.)

SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-III

PAPER-III

REGIONAL PLANNING AND DEVELOPMENT

OBJECTIVES :

1. To Understand and evaluate the concept of Regional geography and its role in planning.
2. To identify the issues relating to the development of the region through the process of spatial Organization.
3. To identify the causes of regional disparities in development, perspectives and policy improvements,

COURSE CONTENTS :

UNIT-I

Regional Concept in Geography conceptual and Theoretical Framework, merits and Limitation for application to regional planning and development, Concept of space, Area and locational attributes. Types of Region-Formal and Functional, Uniform and nodal, Single purpose and composite, Region in the context of planning Regional Hierarchy. Regional Divisions according to variations in levels of socio-economic development and Resource Regions)

UNIT-II

Regional Development Theories : Theories of Myrdal and Hirschman, Franks theory of underdevelopment

Special purpose Region - River valley Regions Metropolitan Regions.

Problem Regions - Hill Regions, Tribals Regions of Drought and Floods.

UNIT-III

Planning Process - Sectoral, Temporal and Spatial dimension short term and long term perspective of planning. Planning for a region's development and multi regional planning.

Indicators of development and their data sources measuring levels or regional development and disparities. Regional Plans of India.

UNIT-IV

1. Concepts of Multi level Planning : Decentralized planning process. Panchayati Raj system, Role and relationship of Panchayati Raj System (Village Panchayat Janpad Panchayat and Zila Panchayat) and administrative structure (Village, Block and Districts)
2. Regional development in India - Problems and prospects.



SEMESTER SYLLABUS

M.A. GEOGRAPHY

SUGGESTED READING:

1. Alber, R. Et Al. Saptial Organisation. The Geographer's View of the World, Prentice Hall, Englewood cliffs, NJ. 1971.
2. Bhat. L.S. Regional Planning in India statistical Publishing Society, Calcutta, 1973.
3. Bhat L.S. et al. : Micro-Level Planning A case Study of Kamal Area, Haryana, K.B. Publication, New Delhi 1976.
4. Chorley, R.J. and Haggest. P. : Models in Geography Methuen, London 1967.
5. Christaller, W. : Central Places in Southern Germany Translated By C.W. Baskin, Prentice Hall, Englewood, Cliffs, New Jersey 1966.
6. Friedmann, J and Alonso, W : Regional Development and Planning A reader M.I.T. Press Cambridge Mass. 1967.
7. Gosal, G.S. and Krishan G. : Regional Disparties in Level of Socio-Economic Development in Punjab, Vishal Publication, Kurukshetra, 1984.
8. Misra, R.P. : Regional Planning Concepts, Techniques and Policies, University of Mysore, Mysore, 1969.
9. Misra, R.P. and Others(ed) : Regional Development Planning in India a strategy institute of Development Studies Mysore 1974.
10. Mitra A : Levels of Regional Development, Census of India, Vol. I Part I A(i) and (ii) New Delhi. 1956.
11. Myrdal, G : Economic Theory and Under development Regions Gerald Duckworth, London 1975.
12. NangiaSudesh, Delhi Meropolitan Region, Rajesh Publication Delhi, 1976.
13. Sundarm K.V. (ed.) : Geography and Planning Essays in "Honor of V.L.S. PrakassaRao, Concept Publishing Co. New Delhi, 1985.
14. Tarlok Singh India's Development Experience, Me Millan, New Delhi, India 1974.
15. Razamoonis (ed.) Regional Development Heritage Publishers Delhi, 1988.
16. Mishra R.P. et. A Multi - Level Planning heritage Publishers, Delhi, 1980.
17. Gupta H.S. Regional Development & Planing
18. ओझा रघुनाथ प्रादेशिक विकास एवं नियोजन
19. सिंह महेन्द्र बहादुर एवं दुबे कमला कानत प्रादेशिक नियोजन एवं सन्तुलित विकास



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-III

PAPER-IV

**POPULATION GEOGRAPHY
(With special reference of world)**

UNIT-I

Nature and scope of Population Geography Development of Population Geography as field of specialization Its relation with the Demography. Sources of population data, their level of reliability and problems of mapping the population data.

UNIT-II

Population distribution and density; Growth of population theoretical issues, world pattern and determinants.

UNIT-III

Population Composition-Gender issues : age and Sex; literacy and education, rural and urban; urbanization, occupational structure. of world

UNIT-IV

Population Dynamic Measurement of fertility and Mortality; .Migration-national and international. India's population dynamics. World patterns of fertility, mortality and internal migration. Population regions of the world .

UNIT-V

Population and Resources Development: Concept of optimum population, under population and overpopulation. Theories of transition.

SUGGESTED READINGS :

1. Boserup, E. The Conditions of Agricultural Growth. George. Alien & Unwin, Londona, 1965.
2. Barcley G.W. Techniques of Population Analysis, John Wiley, New York 1959.
3. Bogue, D.J. : Principles of Demography. John Wiley, New York, 1969
4. Bose, Ashiset.al.: Population in India's Development. Vikas Publishing House, New Delhi. Census of India. 2001.
5. Chanana R.C. : Geography of Population, Concept, Determinants and Patterns Kalyani.
6. Clark, J.I. Population Geography. Pergamon Press Oxford, 1973.
7. Crooch, Nigel :Principles of Population and Devlopment. Pergamon, New York, 1997.
8. Daughterly, H.G. Kenneth C.W. Kammeyir : An introduction of Population. The Gulford Press. New York, Lodon, 1998.(Population Composition of India (India population distribution, density and growth profile?)
9. Gamier, B.J. : Geography of Population. Longman London, 1970.
10. Mitra, Ashok : India's Population, Aspects of Quality and Control. Vol. I & II Abhinav Publications, New Delhi, 1998. 1 1 .Srinivasan, K. and M. Vlassoff : Population Development Nexus in India Challenges For the New Millennium,



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

Tata McGraw Hill, New Delhi, 2001.

12. Shinivasan, K : Basic Demographic Techniques and Applications, Saga Publications, New Delhi, 1998.

13. Sundaram, K.V. and Sundesh Nagais (ed.) Population Geography Heritage Publications, New Delhi, 1986.

14. पण्डा, बी.पी. जनसंख्या भूगोल, म.प्र. हिन्दी ग्रंथ अकादमी

15. चान्दना, आर.सी. जनसंख्या भूगोल



ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA BILASPUR (C.G.)

SEMESTER SYLLABUS

M.A. GEOGRAPHY

M.A. GEOGRAPHY

SEMESTER-III

STATISTICAL TECHNIQUE AND FIELD SURVEY

1. **Statist** :Correlation, Probability, Hypothesis testing, chi test, f test meak center, Nearest neighbor Analysis
2. Project work - Micro region basis physical, socio-economic survey about project report in 50 pages
3. Excursion

SUGGESTED READINGS-

- 1.. Monk house, F.J. & H.R. Wilkinson : Map and Diagrams, methouen, London.
2. Singh, L. R. : Practical Geography.
3. शर्मा, जे.पी., :प्रायोगिक भूगोल
4. चौहान, पी.आर. : प्रयोगात्मक भूगोल
5. यादव, हीरालाल, प्रायोगिक भूगोल
6. चंद्रकारपी. सर्वेक्षणविधि तंत्र, एस. शारदा पब्लिकेशन, बिलासपुर
7. सरकार आशीष, प्रायोगिक भूगोल,

M.A. Geography Semester-III shall consist the following papers :

1. The M.A. Semester - III examination in Geography shall consist of 500 marks.
2. The theory papers shall be of three hours duration.
3. Candidates will be required to pass separately in theory and practical examination.
4. a) In the practical examination the following shall be allotment of time and marks.

i) Lab work (up to two hours)	30% Marks
ii) Project Report	40% + 10% Marks
iii) Excursion	10 % Marks
iv) Viva on i and III	10 % marks
- b) The external and internal examiners shall jointly submit marks.
- c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.



ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA BILASPUR (C.G.)

SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-IV

PAPER-I

POPULATION GEOGRAPHY

(With special reference of India)

UNIT-I

Development of Population Geography in India Its relation with the Demography. Sources of population data, their level of reliability and problems of mapping the population data.in India

UNIT-II

Population distribution and density; Growth of population theoretical issues, world pattern and determinants.in India

UNIT-III

Population Composition-Gender issues : age and Sex; literacy and education, rural and urban; urbanization, occupational structure.in India Population Dynamic Measurement of fertility and Mortality; .Migration-national Population reagents of the India.

UNIT-V

Population Composition of Tribes of India

SUGGESTED READINGS :

1. Boserup, E. The Conditions of Agricultural Growth. George. Alien &Unwin, Londona, 1965.
2. Barcley G.W. Techniques of Population Analysis, John Wiley, New York 1959.
3. Bogue, D.J. : Principles of Demography. John Wiley, New York, 1969
4. Bose, Ashiset.al.: Population in India's Development. Vikas Publishing House, New Delhi. Census of India. 2001.
5. Chanana R.C. : Geography of Population, Concept, Determinants and Patterns Kalyani.
6. Clark, J.I. Population Geography. Pergamon Press Oxford, 1973.
7. Crooch, Nigel :Principles of Population and Devlopment. Pergamon, New York, 1997.
8. Daughterly, H.G. Kenneth C.W. Kammeyir : An introduction of Population. The Gulford Press. New York, Lodon, 1998.
9. तिवारी विजय कुमार भारत का जनसंख्या भूगोल
10. चांदना आर.सी. जनसंख्या भूगोल
11. पन्डाबी.पी. जनसंख्या भूगोल



ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA BILASPUR (C.G.)

SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-IV

PAPER - II

URBAN GEOGRAPHY

OBJECTIVES :

- (i) To understand the process of urbanization, origin, growth and classification urban settlements with relevant theories and models,
- (ii) To examine changing economic base and structure of cities,
- (iii) To understand urbanization process and the evolution of urban system,
- (iv) To examine the contemporary urban issues and to suggest new urban planning and policy.

COURSE CONTENTS:

UNIT-I

- (i) Nature and scope of urban Geography Approaches and recent trends in Urban geography,
- (ii) Origin and growth of urban settlements ancient, medieval and modern period.
- (iii) Bases and process of urbanization.
- (iv) Classification of urban settlements on the basis of size and function, functional classification of Towns.

UNIT-II

- (v) Urban growth and theories, central place theory of Chrisaller and Losch. Contribution of India scholars to the studies of urban settlement,
- (vi) Urban economic base ; Basic and non basic functions, Input output model. City and changing urban functions.

UNIT-III

- (vii) Organization of urban space; urban morphology and land use structure, city core, commercial, industrial and residential areas. Morphology of Indian urban settlements and its comparison with western cities.
- (viii) Urban expansion, unland periphery (Fringe).

UNIT-IV

- (ix) Contemporary urban issues : Urban sprawl, Urban slums, environmental pollution air, water, noise solid waste, Issue of environmental health.

(x) Urban Policy and planning : City Planning, contemporary issues in urban planning, globalization and urban planning in the Third world. Urban land use planning. Green belts & smart city concept.

READING :

1. Alam, S.M. Hyderabad - secunderabad Twin Cities Asia Publishing House, Bombay, 1964.
2. Berry, B.J.L. and Horton F.F. Geographic perspectives on urban Systems. Prentice



ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA BILASPUR (C.G.)

SEMESTER SYLLABUS

M.A. GEOGRAPHY

- Hall, Englewood, Cliffs, New jersey 1970.
3. Carter : The study of Urban Geography Edward Arnold Publishers London 1972.
 4. Chrolely, R.J.O. Haggstt.P. (ed.) Models in Geography, Methuen, London 1966.
 5. Dickinson R.E. : City and Region Routledge. London, 1964.
 6. Dayer D.J. (ed) The city as a acentre of change in Asia University of Hond Kong Press, Hongkong 1971.
 7. Gibbs J.P. : Urban Research methods D. Van Nostrand Co. Inc. Princeton, New Jersey 1961.
 8. Hall P. Urban and Regional Planning, Routiedge London 1992.
 9. Hauser, Philips M and scnnore Leo F. (Ed.) The study of urbanization, Wiely, New York, 1965.
 10. James, *P.E.* and Jones C.F. (eds), American Geography, Inventroy and Prospect, Syracuse University APress, Syracurse, 1954.
 11. Kundu A; Urban Development and Urban Geography, Unviersity of Chicago Press. Chicago, 1955.
 12. Mumford, L : Culture of Cities, Macmillan & Co. London 1958.
 13. Mumford, L. Culture of Cities of Mcmillan&Co. London 1958.
 14. Nangia, Sudesh Delhi Metropolitan Region : A study in settlement geography, Rajesh Publicaton 1976.
 15. बंसलआर.के. नगरीय भूगोल



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-IV

PAPER - III

AGRICULTURAL GEOGRAPHY

OBJECTIVES :

- (i) To familiarize the Student with the concept, origin and development of agriculture,
- (ii) To examine the role agricultural determinates towards changing cropping patterns, intensity, productivity diversification and specialization, (iii) To Discuss environmental, Technological and social issues in agricultural sector with special reference to India.

COURSE CONTENTS :

UNIT-I Nature, Scope and Development of agricultural Geography. Approaches to the study of agricultural Geography, Commodity, systematic Regional and System, Origin and dispersal of agriculture. Sources of agricultural data. Determinates of agricultural land use : Physical economic, Social and technological, land use policy and planning, Land use survey and land capability.

UNIT-II Selected agricultural concepts and their measurements : Cropping pattern, crop concentration, Intensity of cropping, degree of commercialization, efficiency and productivity, Crop combination regions.

UNIT-III Theories of Agricultural Location Von thuen's theory of agricultural location and its recent modification, Theories of diffusion and adoption of innovations, Agricultural Typology Kostrovickie's method, 'Agricultural Region concept and method, whittlesey's classification of agricultural regions.

UNIT-IV Agricultural in India, Regional pattern of productivity in India, Green Revolution, white & blue revolution. Specific problems of Indian agriculture, Agriculture policy in India. Main Fertilizer & Pesticide, Agriculture tools & Market food processing center, soil testing centers. Bio compost, E Marketing, Slandered seeds, Crop policy, Agricultural awards, Kisan credit card (KCC), Narva, Garva, Ghurva, Bari Yojana

SUGGESTED READING /

1. Byliss Smith, T.P. : The Ecology of Agricultural Systems, Cambridge University press, London 1987.
2. Berry, B.J. L. et. Al : The Geography of Economic Systems, Prentice Hall New York 1976.
3. Brown, L.R. : The Changing world food prospects - The Nineties and Beyond. World Watch Institute Washington D.C. 1990.

M.A. GEOGRAPHY SYIABUS

4. Dyson, T. : Population and Food-Global Trends and Future Prospects routledge London, 1996.
5. Gregor, H.P. : Geography of Agriculture prentice Hall, New York 1970.
6. Grigg D.B. : The Agricultural Systems of the World, Cambridge University press.



ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA BILASPUR (C.G.)

SEMESTER SYLLABUS

M.A. GEOGRAPHY

New York 1974.

7. Harshorn, T.N. and Alexander, J.W. : Economic Geography Prentice Hall, New Delhi, 1988.
8. Mannion A.M.: Agriculture and Environment Change, John wiley, Londo 1995.
9. Morgon W.B. and Norton, R.J.C. Agricultural Geography Mathuen, London 1971.
10. Morgon, W.B. : Agriculture in the Third World - Apatial Analysis Westview press. Boulder: 1978.
11. Sauer, C.O.: Agricultural Origins and Despersals. M.I.T. Press. Mass U.S.A. 1969.
12. Singh J. and Dhillon, S.S. : Agricultural Geography, Tata Mcgraw Hill Pub, New Delhi 1988.



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

SEMESTER-IV

PAPER - IV

RESOURCE CONSERVATION & MANAGEMENT

OBJECTIVES :

Student will develop an understanding and appreciation for Missouri's natural resource system and conservation management Students will analyze and comprehend forest management practices stream & water management grassland conservation, hunter education and fisheries and wildlife management .

UNIT I

Nature scope and Definition of Resource conservation & Management & Techniques Conservation and management of natural resources - concepts, methods and measures of conservation with reference to major natural resources. India's national policy on natural resources, resource potential and future technology.

UNITE II

Definition of natural resource Water and soil resource conservation & Management & Police, water and soli testing process

UNIT III

Vegetation, wild life conservation & management & Police, Human resource management

UNIT IV

Mineral, Power, Food, fisheries & other Natural Resource Conservation & Management & Police

SUGGESTED READINGS :

1. Boserup, E. The Conditions of Agricultural Growth. George. Alien &Unwin, Londona, 1965.
2. Barcley G.W. Techniques of Population Analysis, John Wiley, New York 1959.
3. Bogue, D.J. : Principles of Demography. John Wiley, New York, 1969
4. Bose, Ashiset.al.: Population in India's Development. Vikas Publishing House, New Delhi. Census of India. 2001.
5. Chanana R.C. : Geography of Population, Concept, Determinants and Patterns Kalyani.
6. Clark, J.I. Population Geography. Pergamon Press Oxford, 1973.
7. Crooch, Nigel :Principles of Population and Devlopment. Pergamon, New York, 1997.
8. Daughterly, H.G. Kenneth C.W. Kammeyir : An introduction of Population. The Gulford Press. New York, Lodon, 1998.
9. कौशिक, एस.डी. संसाधनभूगोल



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SEMESTER SYLLABUS

M.A. GEOGRAPHY

**M.A. GEOGRAPHY
SEMESTER - IV**

ADVANCE CARTOGRAPHY

1. **Thematic maps :**
Choropleth, Isopleth, Dot method, flow map-
2. **Geological Maps:**
Basic definition, Interpretation Conformable series and unconformable series
3. **Remote sensing:**
Fundamental of Remote sensing, Components of Image Interpretation
4. **GIS :**
An overview of GIS Software, Elements of GIS
5. **Computer Cartography :**
Advantages of computer cartography, Creation of Graphs and Maps.

SUGGESTED READING :

- 1- American Society of Photogrammetry : Manual of Remote Sensing, ASP, Falls Church V.A., 1983.
- 2- Barrett E.G. and L.F. Curits : Fundamentals of Remote sensing and AIR photo Interpretation on, Memillan, New York, 1992.
- 3- Compbell J. : Introduction of Remote Sensing, Guilford, New York, 1989.
- 4- Curran, Paul J. : Principles of Remote Sensing, Longman, London 1985.
- 5- Burroughs P.A. Principles of Geographic Information systems of Land Reson Assessment Oxford University Press, New York 1986.
- 6- चैनियाल, देवीदत्त रू सुदूरसंवेदन एवं भौगोलिक सूचना प्रणाली

M.A, Geography Semester-IV shall consist the following papers :

1. The M.A. Semester - IV examination in Geography shall consist of 500 marks.
2. The theory papers shall be of three hours duration.
3. Candidates will be required to pass separately in theory and practical examination.
4. a) In the practical examination the following shall be allotment of time and marks.

i) Lab work (up to three hours)	70% Marks
(Lab work 25% and viva 5%)	
ii) Practical Record	20% Marks
iii) Viva	10% Marks
- b) The external and internal examiners shall jointly submit marks.
- c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.



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SEMESTER SYLLABUS

M.A. GEOGRAPHY