

RKDF UNIVERSITY RANCHI
BA GEOGRAPHY

RKDF UNIVERSITY RANCHI



FYUGP

GEOGRAPHY HONOURS/RESEARCH

FOR UNDER GRADUATE COURSES UNDER RKDF UNIVERSITY RANCHI

NEP 2020

Implemented from
Academic Session 2023-27

RKDF UNIVERSITY RANCHI
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PROGRAMME OVERVIEW/ SCHEME OF THE PROGRAMME

- The Full-time, Regular UG programme for a regular student shall be for a period of four years with multiple entry and multiple exit options.
- Undergraduate degree programmes of either 3 or 4-year duration, with multiple entries and exit points and re-entry options within this period, with appropriate certifications such as:
 - a Certificate after completing 1 year (2 semesters) of study in the chosen fields of study,
 - a Diploma after 2 years (4 semesters) of study,
 - a Bachelor after a 3-year (6 semesters) programme of study,
 - a Bachelor (with Hons. / Research) after a 4-year (8 semesters) programme of study

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AIMS OF BACHELOR'S DEGREE PROGRAMME IN GEOGRAPHY

The broad aims of bachelor's degree programme in Geography are:

The aim of bachelor's degree programme in **Geography** is intended to provide:

- (i) The core courses cover key areas of geography about which all students should have basic knowledge.
- (ii) To develop students' ability and skill to acquire expertise over solving both theoretical and practical problems.
- (iii) To provide knowledge and skill to the students' thus enabling them to undertake further studies in Geography in related areas or multidisciplinary areas that can be helpful for self-employment/entrepreneurship.
- (iv) To provide an environment that ensures cognitive development of students in a holistic manner.
- (v) **Practical** - These courses on Statistical Techniques in Spatial Analysis; Remote Sensing and Geographical Information System, Research Methods and Fieldwork in Geography will strengthen the methodological and practical foundations of geography.
- (vi) **Regional Approach** - Such courses focus on Geography of India / different states.
- (vii) **Application Oriented**- This includes disaster management, climate change, tourism Geography etc..
- (viii) To mold a responsible citizen who is aware of most basic domain-independent knowledge, including critical thinking and communication.
- (ix) To enable the graduate, prepare for national as well as international competitive examinations, especially UGC-CSIR NET and UPSC Civil Services Examination.

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SEMESTER - I

| Subject Code | Paper Name | Credit |
|---------------------|----------------------|---------------|
| MJ01GEO | Geomorphology | 3 |

Objectives:

1. The course provides an overview of landforms, land forming processes, and landscape evolution.
2. In particular, it aims to shed light on various land forming processes and how these depend on climate and tectonic regimes, and time.

Unit 1: Geomorphology:

Nature and Scope. Factors controlling land form development.

Unit 2: Earth

Interior Structure, Continental drift and Isostasy. Origin and evolution of the earth's crust

Unit 3: Earth Movements:

Plate Tectonics, Endogenetic and exogenetic forces Types of Folds and Faults, Earthquakes and Volcanoes.

Unit 4: Geomorphic Processes:

Weathering, Cycle of Erosion (Davis) & (Penk).

Unit5: Landforms:

Evolution of Landforms (Erosional and Depositional): Fluvial, Karst, Aeolian and Glacial.

Books recommended

1. Bloom A. L., 2003: Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, Prentice-Hall of India, New Delhi.
2. Bridges E. M., 1990: World Geomorphology, Cambridge University Press, Cambridge.
3. Christopherson, Robert W., (2011), Geosystems: An Introduction to Physical Geography, 8 Ed., Macmillan Publishing Company.
4. Kale V. S. and Gupta A., 2001: Introduction to Geomorphology, Orient Longman, Hyderabad.

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5. Knighton A. D., 1984: Fluvial Forms and Processes, Edward Arnold Publishers, London.
 6. Richards K. S., 1982: Rivers: Form and Processes in Alluvial Channels, Methuen, London.
 7. Selby, M.J., (2005), Earth's Changing Surface, Indian Edition, OUP
 8. Skinner, Brian J. and Stephen C. Porter (2000), The Dynamic Earth: An Introduction to physical Geology, 4th Edition, John Wiley and Sons.
 9. Thornbury W. D., 1968: Principles of Geomorphology, Wiley.
 10. Gautam, A (2010): Bhautik Bhugol, Rastogi Publications, Meerut.
 11. Tikkaa, R N (1989): Bhautik BhugolkaSwaroop, Kedarnath Ram Nath, Meerut.
 12. Singh, S (2009): Bhautik Bhugol ka Swaroop, PrayagPustak, Allahabad.
 13. Tiwary Ram Kumar, Bhautik bhugol, Rajasthan Hindi Granth Academy, Jaipur.
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| Subject Code | Paper Name | Credit |
|--------------|-------------------------|--------|
| MJL01GEO | CARTOGRAPHIC TECHNIQUES | 1 |

PRACTICAL -

1. **Scales** – Concept and application; Graphical Construction of Plain
2. **Map Projections** – Classification, Properties and Uses; Graphical Construction of Polar Zenithal
3. **Stereographic** Projection, Simple Conical Projection with One standard parallel and two standard parallel, Bonne’s Projections.
4. **Topographical Map** – Concept and Interpretation of a Mountain /plateau area.
5. **Profiles**- Cross profiles
6. **Practical Record:** A Project File in pencil, comprising one exercise *each*, on scale, map projection, interpretation of topographic sheet and slope analysis.

Books recommended

- Anson R. and Ormelling F. J., 1994: International Cartographic Association: Basic Cartographic Vol.Pregmen Press.
- Gupta K.K. and Tyagi, V. C., 1992: Working with Map, Survey of India, DST, New Delhi.
- Mishra R.P. and Ramesh, A., 1989: Fundamentals of Cartography, Concept, New Delhi.
- Monk house F. J. and Wilkinson H. R., 1973: Maps and Diagrams, Methuen, London.
- Rhind D. W. and Taylor D. R. F., (eds.), 1989: Cartography: Past, Present and Future, Elsevier, International Cartographic Association.
- Robinson A. H., 2009: Elements of Cartography, John Wiley and Sons, New York.
- Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
- Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
- Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi .
- Singh R L & Rana P B Singh(1991) Prayogtmak Bhugo lke Mool Tatva, Kalyani Publishers, New Delhi.
- Sharma, J P (2010) Prayogtmak Bhugol ki Rooprekha, Rastogi Publications, Meerut.
- Singh, R L & Dutta, P K (2012) Prayogatmak Bhugol, Central Book Depot, Allahabad.

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SEMESTER - II

| Subject Code | Paper Name | Credit |
|---------------------|--------------------|---------------|
| MJ02GEO | CLIMATOLOGY | 3 |

Objectives:

1. The primary goal of Climatology is to study the unique characteristics of atmosphere in controlling the global climate, origin, types of climates and causes
2. The processes influencing the climatic variations, elements of weather and the impact of climate on humans or vice-versa.

Unit 1 Atmospheric Composition and Structure-Variation with Altitude, Latitude and Season

Unit 2 Insolation and Temperature

Factors and Distribution, Heat Budget, Temperature Inversion.

Unit 3 Atmospheric Pressure and Winds

Planetary and local winds, Forces affecting Winds, Atmospheric circulation, Jet Streams

Unit 4 Weather and Climate

Koppen's, Thornthwaite's and Trewartha's classification of world climates; Climatic regions

Unit 5 Atmospheric Moisture

Evaporation, Humidity, Condensation, Fog and Clouds, Atmospheric stability and instability, Air masses and frontogenesis. Cyclones – Temperate and tropical cyclones, Types and distribution of precipitation Monsoon - Origin and Mechanism of Indian monsoons. Tsunamis, floods and droughts.

Books recommended

1. Barry R. G. and Carleton A. M., 2001: Synoptic and Dynamic Climatology, Routledge, UK.
2. Geography through Maps by K Siddhartha
3. Barry R. G. and Corley R. J., 1998: Atmosphere, Weather and Climate, Routledge, New York.
4. Critchfield H. J., 1987: General Climatology, Prentice-Hall of India, New Delhi
5. Lutgens F. K., Tarbuck E. J. and Tasa D., 2009: The Atmosphere: An Introduction to Meteorology, PrenticeHall, Englewood Cliffs, New Jersey.
6. Oliver J. E. and Hidore J. J., 2002: Climatology: An Atmospheric Science, Pearson Education, New Delhi.

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7. Trewartha G. T. and Horne L. H., 1980: An Introduction to Climate, McGraw-Hill.
 8. Gupta L S(2000): Jalvayu Vigyan, Hindi Madhyam Karyanvay Nidishalya, Delhi Vishwa Vidhyalaya, Delhi
 9. Lal, D S (2006): Jalvayu Vigyan, Prayag Pustak Bhavan, Allahabad
 10. Vatal, M (1986): Bhautik Bhugol, Central Book Depot, Allahabad
 11. Singh, S (2009): Jalvayu Vigyan, Prayag Pustak Bhawan, Allahabad
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| Subject Code | Paper Name | Credit |
|---------------------|-----------------------------|---------------|
| MJL02GEO | THEMATIC CARTOGRAPHY | 1 |

PRACTICAL

- 1. Diagrammatic Data Presentation** – Line, Bar and Circle.
- 2. Thematic Mapping Techniques** – Properties, Uses and Limitations; Areal Data -Choropleth, Dot, Proportional Circles; Point Data – Isopleths.
- 3. Cartographic Overlays** – Point, Line and Areal Data.
- 4. Thematic Maps** – Preparation and Interpretation.
- 5. Practical Record:** A Thematic Atlas should be prepared on a specific theme with five plates of any state in India.

Books recommended

- Cuff J. D. and Mattson M. T., 1982: Thematic Maps: Their Design and Production, Methuen Young Books
- Mishra R. P. and Ramesh A., 1989: Fundamentals of Cartography, Concept, New Delhi. □
Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
- Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
- Tyner J. A., 2010: Principles of Map Design, The Guilford Press.
- Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
- Singh, L R & Singh R (1977): Manchitra or Pryaogatamek Bhugol , Central Book, Depot, Allahabad
- Bhopal Singh R L and Dutta P K (2012) Prayogatama Bhugol, Central Book Depot, Allahabad.

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| Subject Code | Paper Name | Credit |
|---------------------|------------------------|---------------|
| MJ03GEO | Human Geography | 3 |

HUMAN GEOGRAPHY

Objectives:

1. Understand population dynamics and migration. Understand political systems, states, territory, and borders.
2. Understand the basic elements of culture. Understand the types and levels of economic activities.

UNIT 1

Nature, scope and development of human geography; Branches of human geography; man and environment relationship - determinism, possibilism and Neo determinism and probabilism; approaches - ecological, spatial, behavioral and welfare.

UNIT II

Human adaptation to the environment; Population growth, distribution, migration problems and planning; races and tribes; rural and urban settlements –functional types, patterns and morphology.

UNIT III

Types of farming; agricultural regions of the world; distribution and production of iron ore, coal, petroleum and hydroelectricity; location and development of iron and steel, cotton textile and chemical industry; fishing; major oceanic and rail routes; pattern of world trade.

UNIT IV

Cultural and social processes - social interactions, social groups and organization; cultural realms, major religions of the world.

Books Recommended:

1. C.W.Hammond : Elements of Human Geography, Allen and Unwin.
2. G.J.Fielding : Geography as a Social Science, Harper and Row, New York.
3. Majid, Hussain : Human Geography, Rawat Publications, Jaipur.
4. M.Chisolm : Human Geography : Evolution or Revolution, Penguin Series in Geography.
5. B.M.Mishra: Agricultural Management & Planning in India Policy Issues, Chug Publications, Allahabad

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6. B. N. Mishra: Agricultural Management & Planning in India-Problems, Chug Publication , Allahabad.
7. Can Michael: New Patterns: Process and Change in Human Geography, Nelson, 1997.
8. Majid Husain : Manav Bhoogol , Rawat Prakashan, Jaipur.
9. B.P. Raoem V.K. Srivastava :Arthik Bhoogolavam Manav Bhoogol,Vasundhara Prakashan Gorakhpur.

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| Subject Code | Paper Name | Credit |
|---------------------|---------------------------|---------------|
| MJL03GEO | STATISTICAL METHOD | 1 |

PRACTICAL

1. Central Tendency (Mean, Median and Mode)
2. Sampling: Purposive, Random, Systematic and Stratified.
3. Theoretical Distribution: Probability and Normal Distribution.
4. Dispersion (Standard Deviation, Variance and Coefficient of Variation) Scattered diagram, Histogram, Frequency Polygon & Frequency Curve

Books Recommended:

- Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
- Tyner J. A., 2010: Principles of Map Design, The Guilford Press.
- Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., NewDelhi
- Singh, L R & Singh R (1977): Manchitra or Paryaogatamek Bhugol , Central Book, Depot, Allahabad
- Bhopal Singh R L and Dutta P K (2012) Prayogatama Bhugol, Central Book Depot, Allahabad.

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SEMESTER - III

| Subject Code | Paper Name | Credit |
|---------------------|---------------------|---------------|
| MJ04GEO | OCEANOGRAPHY | 4 |

Objectives:

1. To differentiate between underwater formations, seawater composition, and qualities.
2. Understanding the chemical, physical, geological, and biological processes that affect the surface of the ocean.

UNIT 1: Ocean Floor Topography

Indian Ocean Pacific Ocean and Atlantic Ocean

UNIT II: Oceanic Movements

Waves, Currents and Tides

UNIT III: Ocean Salinity and Temperature

Distribution and Determinant

UNIT IV: Coral Reefs

Types and Theories of Origin

UNIT V:

Marine Deposits & Ocean Resources, Coastal regions.

Books Recommended:

1. Andrew. D. ward and Stanley, Trimble (2004): Environmental Hydrology, 2nd edition, Lewis Publishers, CRC Press.
2. Karanth, K.R., 1988 : Ground Water: Exploration, Assessment and Development, Tata- McGraw Hill, New Delhi.
3. Ramaswamy, C. (1985): Review of floods in India during the past 75 years: A Perspective. Indian National Science Academy, New Delhi.
4. Rao, K.L., 1982 : India's Water Wealth 2nd edition, Orient Longman, Delhi,.
5. Sharma R. C. and Vatal M., 1980: Oceanography for Geographers, Chaitanya Publishing House, Allahabad.
6. Sverdrup K. A. and Armbrust, E. V., 2008: An Introduction to the World Ocean,

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| Subject Code | Paper Name | Credit |
|---------------------|--|---------------|
| MJ05GEO | Evolution of Geographical Thought | 4 |

Objectives:

1. Geographical Thought provides a clear and accessible introduction to the key ideas and figures in human geography.
2. The book provides an essential introduction to the theories that have shaped the study of societies and space.

UNIT 1. Nature, objective and relevance of Geographical Thought, Its place in classification of Sciences.

UNIT 2. Pre-Modern

Early Origins of Geographical Thinking with reference to the Classical and Medieval Philosophies.

UNIT3. Modern

Evolution of Geographical Thinking and Disciplinary Trends in Germany, France, Britain, United States of America.

UNIT 4. Debates

Environmental Determinism and Possibilism, Systematic and Regional.

UNIT 5. Trends

Quantitative Revolution and its Impact, Behaviouralism, Systems Approach, Radicalism, Feminism. Towards Post Modernism – Changing Concept of Space in Geography, future of Geography.

Books Recommended:

- Arentsen M., Stam R. and Thuijjs R., 2000: Post-modern Approaches to Space, ebook.
- Bhat, L.S. (2009) Geography in India (Selected Themes). Pearson
- Bonnett A., 2008: What is Geography? Sage.
- Dikshit R. D., 1997: Geographical Thought: A Contextual History of Ideas, Prentice– Hall India.
- Hartshone R., 1959: Perspectives of Nature of Geography, Rand MacNally and Co.
- Holt-Jensen A., 2011: Geography: History and Its Concepts: A Students Guide, SAGE.
- Johnston R. J., (Ed.): Dictionary of Human Geography, Routledge.

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- Johnston R. J., 1997: Geography and Geographers, Anglo-American Human Geography since 1945, Arnold, London.
- Kapur A., 2001: Indian Geography Voice of Concern, Concept Publications.
- Martin Geoffrey J., 2005: All Possible Worlds: A History of Geographical Ideas, Oxford.
- Soja, Edward 1989. Post-modern Geographies, Verso, London. Reprinted 1997: Rawat Publ., Jaipur and New Delhi.

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SEMESTER - IV

| Subject Code | Paper Name | Credit |
|---------------------|------------------------|---------------|
| MJ06GEO | URBAN GEOGRAPHY | 4 |

Objectives:

1. Urban geography is a branch of human geography concerned with various aspects of cities.
2. Urban geographer's main role is to emphasize location and space and study the spatial processes that create patterns observed in urban areas.

UNIT1. Urban geography: Introduction, nature and scope

UNIT 2.Patterns of Urbanization in developed and developing countries

UNIT 3.Functional classification of cities: Quantitative and Qualitative Methods

UNIT 4.Urban Issues: problems of housing, slums, civic amenities (water and transport)

UNIT 5. Case studies of Delhi, Mumbai, Kolkata, Chennai and Chandigarh with reference to Land use and Urban Issues.

Books Recommended:

- Fyfe N. R. and Kenny J. T., 2005: The Urban Geography Reader, Routledge.
- Graham S. and Marvin S., 2001: Splintering Urbanism: Networked Infrastructures, Technological Mobilities and the Urban Condition, Routledge.
- Hall T., 2006: Urban Geography, Taylor and Francis.
- Kaplan D. H., Wheeler J. O. and Holloway S. R., 2008: Urban Geography, John Wiley
- Knox P. L. and McCarthy L., 2005: Urbanization: An Introduction to Urban Geography, Pearson Prentice Hall New York.
- Knox P. L. and Pinch S., 2006: Urban Social Geography: An Introduction, Prentice-Hall.
- Pacione M., 2009: Urban Geography: A Global Perspective, Taylor and Francis.
- Sassen S., 2001: The Global City: New York, London and Tokyo, Princeton University Press.

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- Ramachandran R (1989): Urbanization and Urban Systems of India, Oxford University Press, New Delhi
- Ramachandran, R., 1992: The Study of Urbanization, Oxford University Press, Delhi
- Singh, R.B. (Eds.) (2001) Urban Sustainability in the Context of Global Change, Science Pub Inc., Enfield (NH), USA and Oxford & IBH Pub., New Delhi.
- Singh, R.B. (Ed.) (2015) Urban development, challenges, risks and resilience in Asian megacities. Advances in Geographical and Environmental Studies, Springer

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| Subject Code | Paper Name | Credit |
|---------------------|-----------------------------|---------------|
| MJ07GEO | POPULATION GEOGRAPHY | 4 |

Objectives:

1. Population Geography helps to understand the various facets pertaining to the spatial variation.
2. The distribution of the human population across the Earth with reference to the physical, cultural and socio-economic environment.

UNIT1. Defining the Field – Nature and Scope; Sources of Data with special reference to India (Census, Vital Statistics and NSS).

UNIT2. Population Size, Distribution and Growth – Determinants and Patterns; Theories of Growth – Malthusian Theory and Demographic Transition Theory.

UNIT 3. Population Dynamics: Fertility, Mortality and Migration – Measures, Determinants and Implications.

UNIT4. Population Composition and Characteristics – Age-Sex Composition; Rural and Urban Composition; Literacy.

UNIT5. Contemporary Issues – Ageing of Population; Declining Sex Ratio; HIV/AIDS.

Books Recommended:

- Barrett H. R., 1995: Population Geography, Oliver and Boyd.
- Bhende A. and Kanitkar T., 2000: Principles of Population Studies, Himalaya Publishing House.
- Chandna R. C. and Sidhu M. S., 1980: An Introduction to Population Geography, Kalyani Publishers.
- Clarke J. I., 1965: Population Geography, Pergamon Press, Oxford.
- Jones, H. R., 2000: Population Geography, 3rd ed. Paul Chapman, London.
- Lutz W., Warren C. S. and Scherbov S., 2004: The End of the World Population Growth in the 21st Century, Earthscan
- Wilson M. G. A., 1968: Population Geography, Nelson.
- Panda B P (1988): Janasankya Bhugol, M P Hindi Granth Academy, Bhopal

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- Maurya S D (2009) JansankyaBhugol, ShardaPutakBhawan, Allahabad
- Chandna, R C (2006), JansankhyaBhugol, Kalyani Publishers, Delhi
- Tiwari Ram Kumar (2015) JansankhyaBhugolPravalika Publication, Allahabad
- Roy.D.(2015) Population Geography, Books & Allied Publication, Kolkata.

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| Subject Code | Paper Name | Credit |
|---------------------|--|---------------|
| MJL08 | INSTRUMENTAL AND VILLAGE SURVEY | 4 |

INSTRUMENTAL AND VILLAGE SURVEY

UNIT 1. Plane Table: Radiation, Intersection Method.

UNIT 2. Plane Table: Resection: Trial & Error, Tracing Paper Method.

UNIT 3. Prismatic Compass: Open & Closed Traverse.

UNIT 4. Dumpy Level & Abny level

UNIT 5. Indian Clinometer.

VILLAGE SURVEY

Student alone or in a group of not more than five, shall undertake village survey approved by the Subject Teacher/H.O.D. of the Department/College concerned. The progress of the village survey shall be monitored by the faculty members at regular intervals.

Books Recommended:

Misra, R.P & Ramesh A: (1986): Fundamentals of Cartography, McMillan Co.New Delhi

Robinson A.H (1995) Elements of Cartography John Wiley & Sons USA

Sarkar A.K.(1997): Practical Geography :A Systematic Approach, Oriental Longman Calcutta

Sharma J.P.(2010): Prayogatmak Bhugol, Sahitya Bhawan.

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SEMESTER - V

| Subject Code | Paper Name | Credit |
|---------------------|-----------------------------|---------------|
| MJ09GEO | SETTLEMENT GEOGRAPHY | 4 |

Objectives:

1. To establish the relationship between house types with relief, climate, and building materials.
2. To define an urban area as given by the Census of India.
3. To explain the functional classification of urban settlements as given by Census of India.

UNIT1. Nature scope & contents of Settlement Geography.

UNIT 2. Definition of Urban & Rural Settlement: Salient features of human settlements in India

UNIT 3. Settlement site & structure: Internal morphology, external forms, field patterns, functions, Ruralhouse types with reference to India

UNIT 4. Spatial organization: size, spacing, hierarchy of settlements.

UNIT 5. Functional classification of towns and cities, rural –urban fringe, slums.

Books Recommended:

- Bose A. India's Urbanization 1947-2000 Tata Mcgraw Hill, New Delhi.
- Chisholm, M: (1970) Rural Settlements and Landuse, Hutchinson, London
- Clout, R.D (1970) Rural Geography, Pergamon Press, London
- Dickenson, R.E (1947) City, Region and Regionalism, Kegan Paul Trench Trubner & Co. London
- Krishnan, G.: Nagar Bhugol, Punjab State University text Book Board, Chandigarh (Punjab)
- Misra, H.N (ed) (1987) Rural Geography, Heritage Publishers, New Delhi
- Mukherji, R.K (1968) Man and his habitation, Popular Books, Bombay
- Singh R.L (1972) Readings in Rural Settlement Geography, Banaras Hindu University, department of geography, Varanasi

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| Subject Code | Paper Name | Credit |
|---------------------|---------------------------|---------------|
| MJ10GEO | ECONOMIC GEOGRAPHY | 4 |

Objectives:

1. The main objective of economic geography is to identify economic patterns across space and time in order to provide insight into how and why economic systems and practices develop.
2. Economic geography is the study of the spatial distribution of economic activity and economic development.

UNIT 1. Introduction: Concept and classification of economic activity

UNIT 2. Factors Affecting location of Economic Activity with special reference to Agriculture

(Von Thunen theory), Industry (Weber's theory).

UNIT3. Primary Activities: Subsistence and Commercial agriculture, forestry, fishing and mining.

UNIT4. Secondary Activities: Manufacturing (Cotton Textile, Iron and Steel- with reference to world), Concept of Manufacturing Regions, Special Economic Zones.

UNIT5. Tertiary Activities: Transport, Trade and Services.

Books Recommended:

- Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
- Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction, Wiley-Blackwell.
- Hodder B. W. and Lee Roger, 1974: Economic Geography, Taylor and Francis.
- Combes P., Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
- Wheeler J. O., 1998: Economic Geography, Wiley.
- Durand L., 1961: Economic Geography, Crowell.
- Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future, Taylor and Francis.
- Willington D. E., 2008: Economic Geography, Husband Press.

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| Subject Code | Paper Name | Credit |
|---------------------|--|---------------|
| MJ11GEO | REGIONAL PLANNING & DEVELOPMENT | 4 |

REGIONAL PLANNING & DEVELOPMENT

Objectives:

1. Regional planning seeks to achieve the comprehensive development of the entire regional space; the regional system in its entirety.
2. It seeks the development of all sectors of economy along with advancement of all segments of society.
3. Equal opportunities to all for self-development.

UNIT1. Definition of Region, Evolution and Types of Regional planning: Formal, Functional, And Planning Regions and Regional Planning; Need for Regional Planning; Types of Regional Planning.

UNIT2. Choice of a Region for Planning: Characteristics of an Ideal Planning Region, Delineation Of Planning Region; Regionalization of India for Planning (Agro Ecological Zones).

UNIT 3. Theories and Models for Regional Planning: Growth Pole Model of Perroux; Growth Centre Model in Indian Context; Myrdal, Hirschman, Rostow and Friedmann; Village Cluster.

UNIT 4. Changing Concept of Development, Concept of underdevelopment; Efficiency-Equity Debate.

UNIT5. Measuring development: Indicators (Economic, Social and Environmental); Human development.

Books Recommended:

- Blij H. J. De, 1971: Geography: Regions and Concepts, John Wiley and Sons.
- Claval P.I, 1998: An Introduction to Regional Geography, Blackwell Publishers, Oxford and Massachusetts.
- Friedmann J. and Alonso W. (1975): Regional Policy - Readings in Theory and Applications, MIT Press, Massachusetts.
- Gore C. G., 1984: Regions in Question: Space, Development Theory and Regional Policy, Methuen, London.

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- Gore C. G., Köhler G., Reich U-P. and Ziesemer T., 1996: Questioning Development; Essays on the Theory, Policies and Practice of Development Intervention, Metropolis- Verlag, Marburg.
- Haynes J., 2008: Development Studies, Polity Short Introduction Series.
- UNDP 2001-04: Human Development Report, Oxford University Press.
- World Bank 2001-05: World Development Report, Oxford University Press, New Delhi
- Puri V.K & Chand. M (1998) Regional Planning in India, Allied Publication
- Chand R.C (2010) Pradeshik Niyijantatha Vikash, Kalyani Publishers Ludhiana.

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SEMESTER - VI

| Subject Code | Paper Name | Credit |
|---------------------|---|---------------|
| MJ12GEO | Geography of Three Northern Continents | 4 |

Geography of Three Northern Continents

Objectives:

1. Understanding about the different continents and oceans helps children build a better understanding about the world around them.
2. Introduce them to places and cultures beyond their everyday experiences, and teach them their role as responsible global citizens.

Unit-I North America:

Relief of North America, Natural Vegetation, Population of North America, cotton textile Industry and Iron-Steel Industry, Water route of great lakes and Panama route

Unit-II Europe:

Physiographic division of Europe, Climate important, Demographic pattern of Europe, Industrial Development and reasons, Oceanic routes of Europe

Unit-III Asia:

Physiography, soils, population Distributional factors of population, Agriculture development Geographical account of SAARC Nations

Unit-IV Location

Iron and steel Industry in U.S.A and U.K, wheat belt of Columbia basin. Coal resources of Europe, Regional Study of United Kingdom & British Island, Japan and USA.

Books Recommended:

- World Geography by Majid Hussain
- **Certificate Physical and Human Geography;** by Goh Cheng Leong
- Oxford Student Atlas for India - Third Edition Oxford University Press Oxford University Press
- Geography of India by Majid Husain.
- Geography through Maps by K. Siddhartha and S. Mukherjee.

**RKDF UNIVERSITY RANCHI
BA GEOGRAPHY**

| Subject Code | Paper Name | Credit |
|---------------------|---|---------------|
| MJ13GEO | Geography of Three Southern Continents | 4 |

Objectives:

1. Understanding about the different continents and oceans helps children build a better understanding about the world around them.
2. Introduce them to places and cultures beyond their everyday experiences, and teach them their role as responsible global citizens.

Unit-I South America:

Physiographic, Agriculture and demographic set-up and Regional studies of Brazil

Unit-II Australia and New Zealand:

General account of the physiography, Dairy farming and demographic set-up, detailed regional study of New Zealand

Unit-III Africa:

Physiography, Agriculture, grasslands (Savanna) and desert environment, Regional Account of Nigeria and Egypt.

Unit-IV

Geographical account of Argentina, South Africa, Zimbabwe, Social and cultural aspect of Bushman, Hottentot, Maori and Bora

Books Recommended:

- World Geography by Majid Hussain
- Certificate Physical and Human Geography; by Goh Cheng Leong
- Oxford Student Atlas for India - Third Edition Oxford University Press Oxford University Press
- Geography of India by Majid Husain.
- Geography through Maps by K. Siddhartha and S. Mukherjee.

RKDF UNIVERSITY RANCHI
BA GEOGRAPHY

| Subject Code | Paper Name | Credit |
|---------------------|---------------------------|---------------|
| MJ-14 | GEOGRAPHY OF INDIA | 4 |

Objectives:

1. Acquiring the ability to interpret the distribution and processes of physical and human phenomena.
2. Understanding the dynamic interrelationship between physical and human world.
3. Locating places and the relationship between them according to scale

Unit-1. Structure and Physiographic Divisions of India

Unit-2. Drainage and climate

Unit-3. Soil and natural vegetation

Unit-4. Population: Distribution and growth, structure, race, sex ratio, religion.

Unit-5. Economic: Mineral and power resources distribution and utilization of iron ore, coal, petroleum, gas; agricultural production and distribution of rice and wheat, industrial development: iron and steel industry, cotton textile, cement.

Books Recommended:

- Deshpande C. D., 1992: India: A Regional Interpretation, ICSSR, New Delhi.
- Johnson, B. L. C., ed. 2001. Geographical Dictionary of India. Vision Books, New Delhi.
- Mandal R. B. (ed.), 1990: Patterns of Regional Geography – An International Perspective. Vol. 3 – Indian Perspective.
- Sdyasuk Galina and P Sengupta (1967): Economic Regionalisation of India, Census of India
- Sharma, T. C. 2003: India - Economic and Commercial Geography. Vikas Publ., New Delhi.
- Singh R. L., 1971: India: A Regional Geography, National Geographical Society of India.
- Tirtha, Ranjit 2002: Geography of India, Rawat Publs., Jaipur & New Delhi.
- Pathak, C. R. 2003: Spatial Structure and Processes of Development in India. Regional Science Assoc., Kolkata.

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BA GEOGRAPHY**

| Subject Code | Paper Name | Credit |
|--------------|------------------------------------|--------|
| MJL15 | EXCURSION AND REMOTE SENSING & GIS | 4 |

Objectives:

1. It maximizes the efficiency of decision making and planning.
2. Provide efficient means for data distribution and handling.
3. Elimination of redundant database-minimize duplication.
4. Capacity to integrate information from many sources.

Excursion Report for Environmental studies in any part of India. The report should be completed/ prepared as per the applicability under the following broad themes.

1. Landforms and settlement Landforms and
2. Land use Social and Cultural Aspects
3. Urban and rural environment
4. Environmental Degradation

REMOTE SENSING & GIS

1. Remote Sensing: Definition and Development; Platforms and Types; Photogrammetry.
2. Satellite Remote Sensing: Principles, EMR Interaction with Atmosphere and Earth Surface; Satellites (Landsat and IRS); Sensors
3. Geographical Information System (GIS): Definition and Components.
4. Global Positioning System (GPS) – Principles and Uses; DGPS
5. GIS Data Structures: Types (spatial and Non-spatial), Raster and Vector Data Structure.

Books Recommended:

1. Bhatta , B. (2008) Remote Sensing and GIS, Oxford University Press, New Delhi.
2. Campbell J. B., 2007: Introduction to Remote Sensing, Guildford Press
3. Jensen, J. R. (2005) Introductory Digital Image Processing: A Remote Sensing.
4. Bhatta, B. (2010) Analysis of Urban Growth and Sprawl from Remote Sensing, Springer, Berlin Heidelberg.41

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BA GEOGRAPHY**

SEMESTER - VII

| Subject Code | Paper Name | Credit |
|---------------------|-------------------------------|---------------|
| MJ16GEO | GEOGRAPHY OF JHARKHAND | 4 |

Objectives:

1. To know about the geographical features, climate, agriculture, drainage, soil etc.
2. Will acknowledge the socio economic activities of the state.

Unit 1. Structure and Physiographic Divisions of Jharkhand

Unit 2. Drainage and climate

Unit 3. Soil and natural vegetation

Unit 4. Social features: Population and tribes (Santhal, Oraon, and Munda)

Unit 5. Economic features: Agriculture, minerals and industry -iron and steel industry, silk, cement.

Books Recommended:

- Govt of India: (1965)The Gazetteer of India Vol I & III Publication Division, New Delhi
- Mandal R. B. (ed.), 1990: Patterns of Regional Geography – An International Perspective. Vol. 3 Indian Perspective.
- Tiwari Ram Kumar(2010): Jharkhand ka Bhugol, Rajesh Publication New Delhi.
- Sdyasuk Galina and P Sengupta (1967): Economic Regionalisation of India, Census of India
- Tiwari Ram Kumar: Jharkhand ki Rooprekha, Shivangan Publication Ranchi
- Singh R. L., 1971: India: A Regional Geography, National Geographical Society of India.
- Singh, Jagdish 2003: India - A Comprehensive & Systematic Geography, Gyanodaya Prakashan, Gorakhpur. • Spate O. H. K. and Learmonth A. T. A., 1967: India and Pakistan: A General and Regional Geography, Methuen.
- Tirtha, Ranjit 2002: Geography of India, Rawat Publs., Jaipur & New Delhi.
- Pathak, C. R. 2003: Spatial Structure and Processes of Development in India. Regional Science Assoc, Kolkata.

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BA GEOGRAPHY

| Subject Code | Paper Name | Credit |
|--------------|-----------------------|--------|
| MJ17GEO | AGRICULTURE GEOGRAPHY | 4 |

Objectives:

1. To examine the spatial distribution of crops, livestock and other agricultural activities.
2. To ascertain the spatial concentration of agricultural phenomena.

Unit 1:

Nature and scope, Significance and development of agricultural geography, Approaches to the study of agricultural geography, Origin and dispersal of agriculture, Sources of agricultural data.

Unit 2:

Determinants of agricultural land use – Physical, economic, social and technological, Land holding and land tenure systems, Land reforms, Land use policy and planning, Cropping pattern, Intensity of cropping.

Unit 3:

Theories of agricultural location based on several multi-dimensional factors, Von Thunen's model and its recent modifications, Whittlesey's classification of agricultural regions, Agro-climatic regions of India.

Unit 4:

Agriculture in India – Land use and shifting cropping pattern, New trends in Indian agriculture , Green Revolution, White Revolution, Blue Revolution, Problems of Indian agriculture, Agricultural Policy of India.

Books Recommended:

- Mohammad Shafi (2006): Agricultural Geography, Dorling Kindessley (India) Pv. Ltd. New Delhi.
- Negi. B.S. (2003) Indian Agriculture: problems, Progress & Prospects, Vikas publishing house Pvt. Ltd. S. Ansari Road, Daryagani, New Delhi-2.
- Majid Hussain (2000): Agricultural Geography, Ed Anmol Publishing Pvt. Ltd. Ansari Road, Daryagani, New Delhi-2.
- Shafi M. (1999): Agricultural Geography, Kedarnath Ram Nath, 132, College road, Meetat UP-1.
- Singh & Dhillon (2000): Agriculture Geography, PrayagPustakBhavan, 20 A, University road, Allahabad211002, UP.
- Jasbirsingh (2001): Agriculture geography, PrayogPustakBhavan, 20 A, University road, Allahabad211002, UP.

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BA GEOGRAPHY

- Memonia CB (1998): Aricultural Problems in India: PrayogPustakBhavan, 20 A, University road, Allahabad-211002, UP.
- Majid Husain (2007): Systematic Agricultural Geography, Rawat publications, Jawahar Nagar, Jaipur, New Delhi – 92.
- Goh Cheng Leong & Gillian C. Morgan (2009): Human and Economic Geography, Oxford University Press, New Delhi, New York.
- The Hindu Publications: 2005 to 2010; Survey of Indian Agriculture.
- Tiwari, R.C., & Singh, B.N. (2015): Krishi Bhugol, Prawalika Publications, Allahabad
- Singh, Indira (2007): Krishi Bhugol, Discovery Publishing Home, New Delhi.
- Lesely Simon (Translated by ShyamSundarKatare) (1989): Krishi Bhugol, Madhya Pradesh Hindi Granth Academy, Bhopal.

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BA GEOGRAPHY

| Subject Code | Paper Name | Credit |
|---------------------|--------------------------|---------------|
| MJ18GEO | TOURISM GEOGRAPHY | 3 |

Objectives:

1. To provide entertainment to tourists, organise tourism related activities such as cultural shows, fairs and festivals etc.
2. To take over and develop and manage places of tourist interest, parks, lakes, avenues, beaches and recreational places, spots etc.

Unit 1:

Definition, Nature, Scope and Extent, Concept of Tourism, Importance of Tourism, Relationship between Geography and Tourism, Ecotourism, Agro-tourism, Heritage tourism and Adventure tourism.

Unit 2:

Types of Tourism – Domestic and International Tourism, Adventure, Wildlife, Medical, Pilgrimage, Business, Leisure, Pleasure, and Cultural Tourisms, Tourists types – Local, National and International, Economic and socio- cultural impact of Tourism.

Unit 3:

Infrastructural approach for the development of Tourism – Mode of transportation, Govt. agencies, Guides, License, Hotels, Resorts, Youth Hostels, Home stays Government policies for planning and promotion of Tourism in India. Prospects and planning of tourism in Jharkhand.

Unit 4:

Case Studies – Hill Station – Mount Abu, Shimla, Ooty, Beach Points – Kwalum, Goa and Marino Beach. Historical Centers – Mysore, Jaipur and Agra, Religious Centers – Puri, Shirdi and Tirupathi, Dams – Sardar Sarovar, Bhakranangal and Masanjore dam, National Parks – Gir National Park, Palamu Tiger Reserve, Betla, Nandan Kanan National Park, Bhubaneshwar.

Books Recommended:

- Bhatia A.K (1996): Tourism Development: Principles and Practices. Sterling Publishers, New Delhi.
- Kaul R.K (1985): Dynamics of Tourism and Recreation, Inter- India, New Delhi.
- Kaur, J. (1985): Himalyan Pilgrimages and New Tourism, Himalyan Books, New Delhi
- Milton, D. (1993): Geography of World Tourism, Prentice Hall, New York

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BA GEOGRAPHY

- Peace, D. G. (1987): Tourism To-Day: A geographical Analysis, Harlow, Longman
- Robinson, H. A.(1996): A geography of Tourism, McDonald and Evans, London
- Sharma, J. K. (ed.)(2000): Tourism, Planning and Development- A New Perspective, Kanishka
- Singh, R. L. and Kashi Nath Singh (Ed.) 1975: Readings in Rural Settlement Geography, National Geographical Society of India, Varanasi.
- Kapoor, B.K. (2008) Paryatan Bhugol, Vishwa Bharti Publication, Delhi.

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BA GEOGRAPHY

| Subject Code | Paper Name | Credit |
|---------------------|--|---------------|
| MJL18GEO | Maps and Diagrams of Tourism and Field Visit | 1 |

Unit-I

Information technology in tourism planning and management; Preparation of line, bar, and pie diagrams of tourism data and analysis

Unit-II

- (i) Preparation of flow, proportional circle and choroschematic maps by using tourism data and interpretation.
- (ii) Visit at the site and prepare a report. Submit the report to the department.

Recommended Books:

- Kadam, KCK Rakeshetal (2014): A Textbook of Tourism and Hospitality Management, UDH Publishers & Distributors (P) Ltd., New Delhi.
- Khullar, D.R.(2018): Essentials of Practical Geography, New Academic Publishing Co., Jalandhar.
- Mason, Peter (2003): Tourism Impacts, Planning and Management, Butter worth Heinemann, Amsterdam.
- Page, Stephen J. (2009): Tourism Management, 3rd Edition, Elsevier, Amsterdam.
- Rao, Dr. P. Padmanabhaetal (2019): *Tourism Geography*, Telugu Academy, Hyderabad.
- Richards, Gregand Wilson, Julie (2007): *Tourism ,Creativity and Development*, Routledge, Oxon.

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BA GEOGRAPHY

| Subject Code | Paper Name | Credit |
|---------------------|--------------------------------|---------------|
| MJ-19 | ENVIRONMENTAL GEOGRAPHY | 4 |

Objectives:

1. Environmental geography prepares students for careers in environmental planning, design, and restoration.
2. To know the environmental assessment and monitoring, resource management, natural areas preservation, and education.

Unit 1: Nature and Interdisciplinary Aspect of Environmental Geography. Ecological approaches. Definition and Meaning of environment, Habitat, Ecological Niche, Bio-sphere and Biodiversity

Unit 2: Ecosystem: Structure and Functioning of Ecosystem, Pond as an Ecosystem, Food Chains, Food Webs, Food Pyramid. Biomes – Equatorial to Tundra i.e 11 types. Man and Environmental Relationships. Resource Use and Ecological Imbalance with reference to Soil, Forests and Energy Resources. Man Made Ecosystem - Urban, Ecotourism, National Parks and Sanctuaries. Depletion of Ozone, Green House Effect and Acid Rain

Unit 3: Man Induced Changes in Environment: Environmental Pollution, i.e. Air, Water, Noise, Solid Waste with special reference to India. Environmental Hazards, i.e. earth as Warehouses, Flood, Famines, Land Slides, Avalanches, Forest Fires, Impact of Green revolution and Extinction of Species.

Unit 4: Principles of Environmental Management- Environmental Policy of India, (post 2000AD). Environment Impact Assessment (EIA). Global Summits and Agencies of Environment Conservation.

Recommended Books:

- Strahler A.N. (1968) The Earth Sciences, Harper International Education, New York.
- Richard H.B. (2004) Physical Geography, Heinmann Simple Services, Rupa & Company, New Delhi
- Robinson H. (1982) Bio Geography, ELBS, New York.
- Healey I.N. and Moore P.D. (1973) Bio-Geography, Backwell Oxford, U.K.
- Strahler A.N. and Strahler A.H. (1973) Environmental Geo Science, Hamilton, California.
- Savindra Singh (2004) Environmental Geography, Prawalika Publication, Allahabad,
- Savindra Singh (2004) Pryawaran Bhugol, Prawalika Publication, Allahabad,
- Paul Selman (2000) Environmental Planning, Sage Publications, New Delhi.

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- Tiwari, Ram Kumar (2005): Paryawaran Adhyayan, Luxmi Publications, New Delhi.
- Rao, B.P. (2000): Paryawaran Bhugol, Vasundhara Prakashan, Gorakhpur.
- Strahler A.N. and Strahler A.H. (1977) Geography and Man's Environment, John Wiley & Sons, N.York.

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BA GEOGRAPHY

SEMESTER - VIII

| Subject Code | Paper Name | Credit |
|---------------------|---------------------|---------------|
| MJ20GEO | Political Geography | 4 |

Objectives:

1. To reveal the unity of political activity and of geographical factors of social development.
2. In other words, this discipline studies the interaction of political activity with geographical space.

Unit-I

Introduction: Concept, nature, scope, approach, development and relation to other social sciences

Unit-II

State, Nation, and Nation State: Concept of nation and state; Attribution of State –Frontiers, boundaries, shape, size, territory, and sovereignty; Concept of nation state; Geopolitics; Theories(Heartland and Rimland).

Unit III

Electoral Geography: Geography of voting, geographic influences on voting pattern, geography of representation and Gerry Mandering.

Unit-IV

Political Geography of Resource Conflict: Water sharing disputes; Disputes and conflicts related to forest rights and minerals.

Unit -V

Politics of Development: Issues of relief, compensation, and rehabilitation with reference to dams, highways, and Special Economic Zone.

Recommended Books:

- Adhikari,S. (2010): Political Geography, Rawat Publications, NewDelhi.
- Adhikari,S.(2013):Political Geography of India,Sharda Pustak Bhawan, Allahabad.
- Agnew, Johnetaleds.(2003):A Companion to Political Geography, Black Well, London.
- Cox, K.R., Law, M. and Robinson J. (2008): The Sage Hand book of Political Geography, Sage Publications, London.
- Dikshit, R.D. (2020): Political Geography–A Contemporary Perspective, Mac Millan Publishers India, Noida.
- Dwivedi, R.L. and Misra, H.N. (2019): Fundamentals of Political Geography, Surjeet Publications, Delhi.

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BA GEOGRAPHY

| Subject Code | Paper Name | Credit |
|---------------------|--------------------------------------|---------------|
| AMJ01GEO | HYDROLOGY AND WATER RESOURCES | 4 |

HYDROLOGY AND WATER RESOURCES

Objectives:

1. It provides the study of the interrelationship between water and its environment.
2. As hydrology is mainly concerned with water close to the land surface, it focuses on those components of the hydrologic cycle that occur there—namely, precipitation, evapotranspiration, runoff, and groundwater.

Unit 1:

Definition and scope of hydrology, importance of water, hydrological cycle, water storages – glaciers, river channels, lakes and reservoirs, soil moisture,, ground water,

Unit 2:

Surface water: sources and factors affecting quality and quantity; precipitation: forms and factors; interception: factors; runoff: sources and factors affecting runoff; evaporation: measurement and factors; evapotranspiration: control and factors.

Unit 3:

Ground water: characteristics of stream flow, Darcy’s law, permeability, infiltration, ground water storage, ground water aquifers in different rock systems, movement and discharge.

Unit 4:

Environmental influences on water resources; sectoral demands for water; urban water supply; water management; water harvesting; water pollution and control.

References:

- Timothy, Davie. 2003. Fundamentals of Hydrology. Routledge, Taylor and Francis Group, U.K.
- Todd, D.K. 2009. Groundwater Hydrology. John Wiley & Sons Inc.

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- Mahajan, G. 1989. Evaluation and Development of Groundwater. Ashish Publishing House, New Delhi.
- Karanth, K.R.C. 1988. Ground Water: Exploration, Assessment and Development. Tata-Mcgraw Hill, New Delhi.
- Andrew D. Ward and Stanley Trimble. 2004(2nd edition). Environmental Hydrology. Lewis Publishers.
- Wright. R.T and Nebel. B.J. 2002(8th Edition). Environmental Science: Toward a Sustainable Future. Prentice Hall India Ltd.
- Vijay P. Singh. 1995. Environmental Hydrology. Kluwer Academic Publications, The Netherlands.
- Subramaniam V. 2002. Text Book of Environmental Science. Narosa Publishing House, Delhi.
- Santhosh Kumar Garg. 2007. Hydrology and Water Resources Engineering. Khanna Publishers, Delhi.
- Patra, K.C. 2004. Hydrology and Water Resources Engineering. Narosa Publications, New Delhi.
- Viessmann, Warren., Lewis, Gary. 2002(5th edition) Introduction to Hydrology. Prentice Hall.
- Hendriks Martin. 2010. Introduction to Hydrology. Oxford University Press, London.
- Raghunath H.M. 2006. Hydrology: Principles, Analysis and Design. New Age International Publishers, Mysore.

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BA GEOGRAPHY

| Subject Code | Paper Name | Credit |
|---------------------|--|---------------|
| AMJ02GEO | Soil Geography and Biogeography | 3 |

Objectives:

1. The main objective is to get information about the soil genesis and provide information about the soils resources of the area. Therefore, it forms basis for planned land use and resource management.
2. This will cover an analysis of world variations and distribution of soils and vegetation and the associated climates as well as the distribution of some animal

Soil Geography

Unit I

Meaning of pedology and soil geography; Definition, components, colour, texture and structure of soil; Soil forming processes and factors affecting soil formation; Soil profile and horizons; Classification and distribution of soil

Unit II

Soil aeration and temperature; Soil acidity and alkalinity; Soil fertility and Soil quality/health; Soil erosion and its control; Remote sensing in soil studies

Biogeography

Unit III

Definition, scope, branches, and development of bio geography; Approach esto biogeographical studies; Biogeography and related sciences

Unit IV

Ecology, eco system and biomes; Biogeographically processes; Evolution, dispersal, and distribution of plants and animal communities; Biogeography regions.

Unit V Meaning and components of biodiversity; Biodiversity hot spots; Biodiversity conservation; Forest and wildlife conservation in India; Remote sensing in the study of biodiversity

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BA GEOGRAPHY

Recommended Books:

- Biswas, TD and Mukherjee SK (2017): *Text book of Soil Science*, 2nd Edition, Mc Graw Hill Education (India) Pvt. Ltd., Chennai.
- Bryant, Rechar H. (2018): *Physical Geography*, Rupa & Co, Mumbai.
- Das, Dilip (2020): *Introductory Soil Science*, Kalyani Publishers, Ludhiana.
- Indian Society of Soil Sciences (2015): *Soil Science– An Introduction*, New Delhi.
- Kale, V.B.(2020): *Soil Geography*, Himalaya Publishing House, Mumbai.
- Schaetzl, Randall J. And Thompson Michael L. (2015) : *Soils–Genesis and Geomorphology*, 2nd Edition, Cambridge University Press, Cambridge.
- Tripathi, R.P. and Singh, H.P. (2001): *Soil Erosion and Conservation*,

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BA GEOGRAPHY

| Subject Code | Paper Name | Credit |
|---------------------|--|---------------|
| AMJL02GEO | Soil Analysis & Identification and Bio geographical Measurement & Observation | 1 |

Unit-I V

Measurement of Ph value, temperature, and components of soil; Identification of physical structure of soil, and soil horizons of a soil profile and preparation of diagrams; Determination of soil texture by feel method; Particle size analysis with plotationonternary graph; Preparation of soil map from aerial photograph and satellite imagery.

Unit-II

Measurement of Biodiversity– Alpha diversity, Beta diversity, Gamma diversity, and species diversity indices; Identification of plant type/class growing in and around your college campus. Examine the pond ecosystem of nearby ponds and prepare diagrams.

Recommended Books:

- Bryant, Rechar H. (2018): *Physical Geography*, Rupa & Co, Mumbai.
- Dubey, Sarvesh Kumar and Arora, Asha (2018): *A Practical Book on Soil, Plant, Water and Fertilizer Analysis*, S.R. Scientific Publications, New Delhi.
- Kumar, Vijay and Kumar Rakesh (2018): *Practical Manual of Soil Science*, Brilliant Publishing, New Delhi.
- Lillies and, Thomas M.etal (2015): *Remote Sensing and Image Interpretation*, 7th Edition,Wiley, New York.
- Maiti, Parbodh K.and Maiti, Paulani (2017):*Biodiversity- Perception, Peril and Preservation*, 2nd Edition, PHIL earning Private Ltd., New Delhi.
- Weil, Ray P. and Brady, Nyle C. (2016): *The Nature and Properties of Soil*, 15th Edition, Pearson, London

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BA GEOGRAPHY

| Subject Code | Paper Name | Credit |
|---------------------|---|---------------|
| AMJ-03 | Sustainable Resource Development | 4 |

Objectives:

1. Judicious use of resources should be done along with proper resource planning.
2. Dependence on conventional sources of energy should be reduced and use of non-conventional sources of energy should be encouraged.

Unit-I

Sustainable Resource Development: Definition, components, and limitations.

Unit-II

The Millennium Development Goals: National strategies and international experiences.

Unit-III

Sustainable Regional Development: Need and examples from different ecosystems.

Unit-IV

Inclusive Development: Poverty and inequality; Education, health, and climate change; The role of higher education in sustainable resource development; The challenges of universal health coverage.

Unit- V

Sustainable Development Policies and Programmes: The proposal for SDGs at Rio + 20; SDGs; Goal-based development; Financing for sustainable development; Principles of good governance; National environmental policy, CDM.

Recommended Books:

- Agyeman, Julian, Robert D. Bullard and Bob, Evans., Eds.(2003): Just Sustainability's- Development in an Unequal World, London: Earth scan.(Introduction and conclusion).
- Ayers, Jessica and David, Dodman.,(2010): Climate change adaptation and development I: the state of the debate, Progress in Development Studies 10(2):161-168.
- Baker, Susan (2006): Sustainable Development, Routledge Milton Park, Abingdon, Oxon; New York.
- Brosius, Peter (1997): Endangered forest, endangered people—Environmental representations of indigenous knowledge, Human Ecology 25:47-69.
- Lohman, Larry.,(2003):Re- imagining the population debate, Corner House Briefing.

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B.A. Geography

OR

| Subject Code | Paper Name | Credit |
|--------------|-----------------------------------|--------|
| RS-1 | RESEARCH METHODOLOGY IN GEOGRAPHY | 4 |

Unit- I

- Research: Meaning, definition and objective of research.
- Types of Research- Descriptive vs. Analytical, applied vs. fundamental, Quantitative vs. Qualitative, Conceptual vs. empirical
- Significance of research
- Research Designs: Meaning, concept, Need, Designs for different types of research, Library, Laboratory, and Field research, Advantages of designing research,
- Research problems and developing research proposal: selection of research area and topic, statement of research problems, its scope, types involve in defining the problem
- Defining concept, objective, basic assumptions delimitation and limitations of the problems, statement of hypothesis.

Unit -II

- Variables: Independent and dependent variable, quantitative and qualitative variable, Discrete and continuous variables, confounding variables, methods of controlling variables, measurement of variables.
- Sampling: meaning, characteristic of good sample design, step in sampling design, types, advantages.
- Techniques of primary data collection: Questionnaire, Schedule, Interview, Observation and other methods.
- Secondary Data Criterion: Reliability, suitability and adequacy of data.
- Report writing: types and format.

Unit - III

- Processing and analysis of data: Processing operation – Editing, Coding, Classification and tabulation of Data- Cartographic presentation of data, elements of data analysis, role of statistics in data analysis, statistical table.

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B.A. Geography

- Probability: Basic aspects, probability of combination of events, probability of random variables, distribution of random variables.
- Measures of central tendency- mean median and mode.
- Common distribution functions: binomial probability distribution and normal distribution curve.
- Measures of dispersion: range, mean deviation, variance, standard deviation, coefficient of variation.
- Regression and correlation: least square methods of fitting a regression line, curvilinear.

Recommended Books:

- Clifford, Nicholas and Valentine, Gill (2003): *Key Methods in Geography*, Sage Publications, London.
- Gerber, Rod and Chuan, G.K. eds. (2000): *Field workin Geography–Reflection, Perspective and Action*, Kluwer Academic Publishers, Dordrecht.
- Gomez, Basil and Jones, J.P.eds. (2010): *Research Methods in Geography*, Wiley-Black Well, Sussex.
- Kothari, C.R. and Garg, Gaurav (2019): *Research Methodology – Methods and Techniques*, 4th Multi Colour Edition, New Age International Publications, New Delhi.
- Misra, H.N. and Singh, V.P. (2019): *Research Methodology in Geography*, Rawat Publications, Jaipur.
- Murthy, K.L.N. (2014): *Research Methodology in Geography–A Textbook*, Concept Publishing Company, New Delhi.
- Sarma, Mukunda (2021):*Research Methodology*, EBH Publishers (India), Guwahati.
- Stoddard, R.H. (2010): *Field Techniques and Research Methods in Geography*, National Council for Geographic Education and Digital Common @ University of Nebraska, Lingol, sNebraska.

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B.A. Geography

| Subject Code | Paper Name | Credit |
|---------------------|-------------------|---------------|
| RS-2 | Research Proposal | 4 |

Process of writing a research proposal

That includes the following points:

1. TITLE.
2. INTRODUCTION
3. REVIEW OF LITERATURE (BACKGROUND AND RATIONALE)
4. RESEARCH QUESTION (S)/ HYPOTHESIS
5. AIMS & OBJECTIVES
6. RESEARCH METHODOLOGY.
7. PLAN OF WORK
8. Use of tools techniques for Research: methods to search required information effectively, MS Office, Software for detection of Plagiarism.
9. REFERENCE/ BIBLIOGRAPHY.

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B.A. Geography

| Subject Code | Paper Name | Credit |
|--------------|-------------------|--------|
| RS-3 | Research Proposal | 4 |

Dissertation

Topic -

chapter 1 Introduction

chapter 2 review of literature

chapter 3. study area profile

chapter 4 profile of selected respondent

chapter 5 related with your topic

chapter 6 related with your topic

chapter 7 Conclusion and suggestions.

bibliography

appendix A important concept and formulas

appendix B abbreviation

appendix C local terms/ words

questionnaire

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B.A. Geography

Semester –I

| Subject Code | Paper Name | Credit |
|--------------|---------------------|--------|
| MN01GEO | Disaster management | 4 |

Objectives:

1. Reduce the risk of disasters caused by human error, deliberate destruction, and building or equipment failures.
2. Be better prepared to recover from a major natural catastrophe.

Unit- I

Disasters: Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification.

Unit-II

Disaster in India: (a) Flood: Causes, Impact, Distribution and Mapping; Landslide: Causes, Impact, Distribution and Mapping; Drought: Causes, Impact, Distribution and Mapping.

Unit-III

Disaster in India: (b) Earthquake and Tsunami: Causes, Impact, Distribution and Mapping; Cyclone: Causes, Impact, Distribution and Mapping; Manmade disasters: Causes, Impact, Distribution and Mapping.

Unit-IV

Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts during Disasters.

Project Work/ Report on relevant topics pertaining to Disaster Management, preferably on any Major Disaster in World (Natural or Man Made).

Project File & Viva-Voce–

Recommended Books:

- Arulsamy, Dr S. and J.Jeyadevi (2016): Disaster Management, Neel kamal.
- Government of India (2011): Disaster Management in India, Ministry of Home Affairs, NewDelhi.
- Kumar. P.(2021):Disaster Management, Oak Bridge Publications, New Delhi.
- Pandey. Dr. Mrinalini (2014): Disaster Management, Wiley India, New Delhi.
- Pandey, Rajendra Kumar (2020):Disaster Management in India, Sage Publications India Pvt.

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Ltd., New Delhi.

- Srivastava, A.K.(2021): Text Book of Disaster Management, Scientific Publishers, New Delhi.
- Singh, Savindra and Singh, Jeetendra (2013):Disaster Management, Pravalika Publications, Allahabad.

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B.A. Geography

Semester –III

| Subject Code | Paper Name | Credit |
|--------------|-------------------|--------|
| MN03GEO | RURAL DEVELOPMENT | 4 |

Objectives:

1. Aims at finding ways to improve rural lives with the participation of rural people themselves.
2. To meet the required needs of rural communities

Unit-I

Defining Development: Inter-Dependence of Urban and Rural Sectors of the Economy; Need for Rural Development, Gandhian Concept of Rural Development. Development, Gandhian Concept of Rural Development.

Unit-II

Rural Economic Base: Agriculture and Allied Sectors, Seasonality and Need for Expanding Non-Farm Activities.

Unit-III

Area Based Approach to Rural Development: Drought Prone Area Programmes, PMGSY.

Unit-IV

Target Group Approach to Rural Development: SJSY (Integrated Rural Development Programme). Provision of Services – Physical and Socio-Economic Access to Elementary Education and Primary Health Care and Micro credit.

Project Work/ Report on relevant topics pertaining to Rural Development in India, preferably, on any Flagship Programme of the Government of India or the State Government (Jharkhand).

Recommended Books:

1. Gilg A.W. 1985: *An Introduction to Rural Geography*, Edwin Arnold, London.
2. Krishnamurthy, J. 2000: *Rural Development- Problems and Prospects*, Rawat Pubs., Jaipur
3. Lee D.A. and Chaudhri D.P. (eds.), 1983: *Rural Development and State*, Methuen, London.
4. Misra R. P. and Sundaram, K. V. (eds.), 1979: *Rural Area Development: Perspectives and*

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Approaches, Sterling, New Delhi.

5. Misra, R. P. (ed.), 1985: *Rural Development: Capitalist and Socialist Paths*, Vol. 1, Concept, New Delhi.
6. Wanmali S., 1992: *Rural Infrastructure Settlement Systems and Development of the Regional Economy in South India*, International Food Policy Research Institute, Washington, D.C.
7. Yugandhar, B. N. and Mukherjee, Neela (eds.) 1991: *Studies in Village India: Issues in Rural Development*, Concept Publs. Co., New Delhi.

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B.A. Geography

Semester –V

| Subject Code | Paper Name | Credit |
|--------------|----------------------|--------|
| MN05GEO | INDUSTRIAL GEOGRAPHY | 4 |

Objectives:

The description and interpretation of the location dynamics of manufacturing activities on various scales, from the local to the worldwide (or global).

Unit I Nature and scope of industrial geography.

Unit II Types, geographical characteristics, and location of industries (Weber's Theory); Small and medium industry.

Unit III Heavy Industries: Coal and iron based industries; Rural based industries.

Unit IV

Mega Industrial Complexes: National Capital Region, Mumbai – Pune Industrial Region, Bengaluru – Chennai Industrial Region and Chota Nagpur Industrial Region.

Unit V Impact of Industrialization in India: Environmental; Social and economic industrial policy of India.

Project Work/ Report on relevant topics pertaining to Industrial Geography, preferably on any Major industries of the World/ India.

Project File & Viva-Voce–

Recommended Books:

- Chapman, Keith and Walker, David F.(1991):*Industrial Location*,2nd Edition, Wiley Eastern Ltd., New Delhi.
- Gunnar, Alexandersson., (1967): *Geography of Manufacturing*, Prentice Hall, New Jersey.
- Hayter, Roger (2000): *The Dynamics of Industrial Location*, John Weley & Sons, Chichester, England.

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- Miller, E.,(1962):*Geography of Manufacturing*, Prentice Hall, Englewood Cliff, New Jersey.
 - Pathak, C.R., (2003): *Spatial Structure and Processes of Development in India*, Regional Science Assoc., Kolkata.
 - Saxena, H.M.(2018): *Economic Geography*,2nd Edition, Rawat Publications, Jaipur.
 - Sharma,T.C.,(2013): *Economic Geography of India*, Rawat Publications, Jaipur.
 - Singh, Jagdish (2003): *India-A Comprehensive & Systematic Geography*, Gyanodaya Prakashan, Gorakhpur.
 - Tritha, Ranjit (2002): *Geography of India*, Rawat Publications, Jaipur & NewDelhi.
 - Tiwari, R.C.,(2007):*Geography of India*, Prayag Pustak Bhawan, Allahabad.
- Truman, A. Hartshorn, and Alexander, John W. (2000): *Economic Geography*, Prentice Hall of India Ltd., New Delhi.

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Semester –VII

| Subject Code | Paper Name | Credit |
|--------------|-------------------|--------|
| MN07GEO | TOURISM GEOGRAPHY | 4 |

Objectives:

1. To provide entertainment to tourists, organize tourism related activities such as cultural shows, fairs and festivals etc.
2. To take over and develop and manage places of tourist interest, parks, lakes, avenues, beaches and recreational places, spots etc.

Unit 1:

Definition, Nature, Scope and Extent, Concept of Tourism, Importance of Tourism, Relationship between Geography and Tourism, Ecotourism, Agro-tourism, Heritage tourism and Adventure tourism.

Unit 2:

Types of Tourism –Domestic and International Tourism, Adventure, Wildlife, Medical, Pilgrimage, Business, Leisure, Pleasure, and Cultural Tourisms, Tourists types – Local, National and International, Economic and socio- cultural impact of Tourism

Unit 3:

Infrastructural approach for the development of Tourism – Mode of transportation, Govt. agencies, Guides, License, Hotels, Resorts, Youth Hostels, Home stays Government policies for planning and promotion of Tourism in India. Prospects and planning of tourism in Jharkhand.

Unit 4:

Case Studies – Hill Station – Mount Abu, Shimla, Ooty, Beach Points – Kwalum, Goa and Marino Beach. Historical Centers –Mysore, Jaipur and Agra, Religious Centers – Puri, Shirdi and Tirupathi, Dams – Sardar Sarovar, Bhakranangal and Masanjore dam, National Parks –Gir National Park, Palamu Tiger Reserve, Betla, Nandan Kanan National Park, Bhubaneshwar.

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Recommended Books:

- Bhatia A.K (1996): Tourism Development: Principles and Practices. Sterling Publishers, New Delhi.
- Kaul R.K (1985): Dynamics of Tourism and Recreation, Inter- India, New Delhi.
- Kaur, J. (1985): Himalyan Pilgrimages and New Tourism, Himalyan Books, New Delhi
- Milton, D. (1993): Geography of World Tourism, Prentice Hall, New York
- Peace, D. G. (1987): Tourism To-Day: A geographical Analysis, Harlwo, Longman
- Robinson, H. A.(1996): A geography of Tourism, McDonald and Evans, London
- Sharma, J. K. (ed.)(2000): Tourism, Planning and Development- A New Perspective, Kanishka
- Singh, R. L. and Kashi Nath Singh (Ed.) 1975: Readings in Rural Settlement Geography, National Geographical Society of India, Varanasi.
- Kapoor, B.K. (2008) ParyatanBhugol, VishwaBharti Publication, Delhi.

Project Work/Report- Maps and Diagrams of Tourism and Field Visit

1. Information technology in tourism planning and management; Preparation of line, bar and pie diagrams of tourism data and analysis.
2. Visit at our site and prepare a report. Submit the report to the department.

Recommended Books:

- Kadam, KCK Rakeshetal (2014): A Text book of Tourism and Hospitality Management, UDH Publishers & Distributors (P) Ltd., New Delhi.
- Khullar, D.R.(2018): Essentials of Practical Geography, New Academic Publishing Co., Jalandhar.
- Mason, Peter (2003): Tourism Impacts, Planning and Management, Butterworth Heinemann, Amsterdam.
- Page, Stephen J.(2009): Tourism Management, 3rd Edition, Elsevier, Amsterdam.
- Rao, Dr. P. Padmana bhaetal (2019): *Tourism Geography*, Telugu Academy, Hyderabad.
- Richards, Gregand Wilson, Julie (2007):*Tourism, Creativity and Development*, Routledge, Oxon.
