



जननायक चंद्रशेखर विश्वविद्यालय, बलिया
Jananayak Chandrashekhar University, Ballia



**JANANAYAK
CHANDRASHEKHAR
UNIVERSITY, BALLIA
COURSE STRUCTURE FOR
B.A./B.Sc.
DEPARTMENT OF GEOGRAPHY
UNDER GRADUATE
ACADEMIC SESSION -2018-19**

Jananayak Chandrashekhar University, Ballia

Syllabus

B.A./B.Sc.

Geography

B.A./B.Sc.-1

sr	Name of the Papers	Theoretical/ Practical/ viva-voce/Assignment	Maximum Marks	Duration (hours)
1.	Physical Geography	Theoretical (OMR Based)	100	3.00
2.	Human Geography	Theoretical	60	-
3.	Practical	Practical (Evaluation by Internal Examiner)	40	-
Total Marks= 200				

B.A./B.Sc.-2

Sr.	Name of the Paper	Theoretical/Practical/Viva-voce/Assignment	Maximum Marks	Duration hours
1.	Economic Geography	Theoretical	75	3.00
2.	Geography of India	Theoretical	75	3.00
3.	Practical	Practical (Evaluations by Internal Examiner)	50	
Total Marks= 200				

B.A./B.Sc-3

Sr	Name of the Paper	Theoretical/Practical/Viva-Voce/Assignment	Maximum Marks	Duration hours
1	Geographical Thought	Theoretical	75	3.00
2	Environmental Studies	Theoretical	75	3.00
3	Regional studies of Far East Asia	Theoretical	75	3.00
4	Practical (Evaluation by Internal External Examiner)	1. Practical- Field work 2. Field Study Report/Study Tour 3. Viva-Voce & Sessional Records	75 (40+25+10) (Include total marks of all three points)	
Total Marks=300				

B.A/B.Sc.Part-1

Paper-1: Physical Geography

Course Content:

- Part-I** **Lithosphere**-Nature and scope of physical Geography: Geological Time Scale, Origin of the Earth, and Interior of the Earth Origin of Continents and Oceans, Isostasy, Earthquakes and Volcanoes, Geosynclines, Mountain Building with special reference to folded mountains, Concept of plate Tectonics.
- Part-II** Rocks-their origin, classification and characteristics, Earth movements- Folding, Faulting and Warping.
- Part-III** Weathering and Erosion, Cycle of Erosion by Davis and Penck, Drainage Pattern, Evolution of Land Forms by River, Wind, Glacier and Underground Water.
- Part-IV** **Atmosphere:** Composition and Structure of atmosphere: Horizontal and Vertical distribution of temperature, Atmospheric pressure and winds, Air masses and Front, cyclones and anti-cyclones, Humidity, precipitation and rainfall types, Major climate types-Equatorial, Monsoon, Mediterranean, West European and Hot Desert.
- Part-V** Hydrosphere: Ocean Floor, Composition of marine water- temperature and salinity. Circulation of Ocean Water Waves, Currents and Tides, Ocean deposits, Corals and atolls, oceans as storehouse of resources to the Future.

Books Recommended:

1. Strshler, A N and Strahler, AH. : Modern Physical Geography.
2. Barry, R.G and Chorley, R.J. Atmosphere, Weather and Climate
Routledge, London.
3. Trewartha, G.T. Elements of Physical Geography
4. Pears, N. Basis Biography.
5. Sharma, R.C and Hukku, M: Oceanography for Geographers.
6. Singh, Savindra: Physical Geography (Eng./Hindi)
7. Lal, D.S.: Climatology (Eng./Hindi)
8. Singh, J. and Singh, K.N. Bhautik Bhoogal (Hindi)
9. Agarwal, K.M.L.: Bhautik Bhoogol (Hindi)
10. Tiwari, A.K. Jalvau Vijyan ke mool tatva- Rajasthan Hindi Grantha
Academy Jaipur 2000.
11. Lake, P. (1979) Physical Geography, Cambridge University Press,
Cambridge.
12. Dayal P. Bhautik Bhoogol.

Paper-II: Human Geography

Unit-I **Concept and Nature:** Meaning, Scope and Development of Human Geography, Man and Environment relationship- Determinism, Possibilism, Neo- determinism, Probabilism, Basis principles- Principle of Activity or Change, Principle of Terrestrial Unity or whole.

Unit-II **Habitation (Population and Settlement)**

Growth and Distribution of population and world pattern; global migration - causes and consequences, concept of over population and under population.

Human Settlements- Origin, types (Rural & Urban) characteristics, size and distribution. (India & World: major ones to be emphasized), House types and their distribution with special reference to India.

Unit-III **Economy** Evolution of Human Economy; Sequence of human occupation, Primitive Economics-Food gathering, Hunting, Pastoral herding; Fishing; Lumbering and Primitive agriculture. Later major innovations and their impact.

Unit-IV **Society and Culture** Evolution of man (Australopithecus, Homo Erectus, Homo Sapiens. Man's spread over the earth during the Pleistocene) cultural Diffusion, Cultural realms. World Human Races- Classification, Characteristics and Distribution.

Unit-V **Population Tribes:** Some typical modes of life of world Tribes- Eskimos, Kirghiz, Bushman, Masai, Semang and Pygmies.

Habitat, Economy and Society of Indian Tribes- Bhotias, Gaddis, Tharus, Bhill, Gond, Santhal, Nagas (with references to their present-day transformation)

Books Recommended

1. Spencer, J.E. and Thomas, W.L. Introducing Cultural Geography.
2. Thomas, W.L.(ed.) Man's Role in Changing the Face of the Earth.
3. Peripillou , Human Geography
4. Smith, D.M. Human Geography-A Welfare Approach, Edwin Arnold, London.
5. Forde, C-D-, Habitat; Economy and Society
6. Dicken, S.N. and Pitts. F. R., Introduction to Human Geography.
7. Kaushik, S-D- Manav Bhoogol (Hindi)
8. De Blij, H.J. Human geography, Culture, Society and Space, John Wiley, New York, 1996
9. Chandna, R-C., Population geography.
- 10.Singh, J, Manav Bhoogol (Hindi)
- 11.Bansal, S-C. Manav Bhoogol (Hindi)
- 12.Srivastava, V.K. and Rao, B.P. Manav Bhoogol
- 13.Singh, L.R.: Human Geography.
- 14.Jordon, T.G. and Lawntre, The Human Mosaic
- 15.Hira Lal, Jansankhya Bhoogol
- 16.Fellman, J.L. Human Geography- Landscapes of Human Activities, Brown and Bench man, Pub. U.S.A. 1997.
- 17.Michael, Can, New Patterns: Process and change in Human Geography. Nelson, U.K. and Canada, 1996.

PRACTICALS

(A) Lab Work

Unit-I The nature and scope of cartography, Scales- Construction of Comparative, Diagonal and Vernier Scales, Enlargement and Reduction of maps. Calculation of area of maps of different shapes by graphical and arithmetical methods.

Unit-II Cartographic Representation of Statistical Data

- (i) Graphs: Band graph, Hythergraph, Climograph.
- (ii) Diagrams: Compound Bar, Wheel, Rectangle, Circle.
- (iii) Distribution Maps: Using Dots, Isoleth and Choropleth method.

Unit-III Topographical Maps

Introduction: Expansion and Indexing: Coverage, Scale and Topo Symbols. Study and Interpretation of One Inch/ 1:50,000 Survey of India Toposheets- representing Plain, Plateau and Mountain areas under the Following heads- Relief, Drainage Characteristics, Land-use, Settlement types and patterns, and means of Transport and communication with special reference to recognition of Land forms based on contours and profiles drawn on them.

Unit-IV Plane table Surveying; Radiation, Inter section& Resection method, two point problem and there Point problem and Abny Level Survey,

DIVISION OF MARKS:

(A)Lab Work-One question from each unit with internal.

Choice (Duration-Three Hours)- 30

(B)Viva-Voice& sessional records- 10

Books Recommended

1. Monkhouse, F.J.: Maps & Diagram.
2. Robinson, A.H.: Elements of Practical Geography.
3. Singh, R.L. Elements of Practical Geography.
4. Mishra, R.P. and Ramesh, A: Fundamentals of Cartography.
5. Singh, L.R. & Singh, R.N. Map work and Practical Geography (Eng./Hindi)
6. Sharma, J.P. Practical Geography (Hindi)
7. Lal Hira: Prayogatmak Bhoogol ke Adhar (Hindi)
8. Tiwari, R.C.; Tripathi, Sudhakar: Abhinav Prayogic Bhoogol.

B.A./B.Sc.Part-II

Paper-I: Economic Geography

- Unit-I** Nature, Scope and development of Economic geography. Major concepts- Economics Landscape, Stages of economic development, typology of economic activities (Primary, Secondary, tertiary, quaternary) Resource-concept and classification.
- Unit-II** Soil and major soil types, Forest types and their products; Agricultural Land use and Locational theory by Von Thunen; Distribution production and international trade of principal crops rice, wheat, sugarcane, cotton, tea, coffee and rubber, Agricultural regions of the world by Whittlesey.
- Unit-III** Marine resources and Aquaculture-Major Fishing Areas, their production and trade. Nature of Occurrence, distribution, Production and trade of minerals-Iron ore, Manganese, Bauxite, Copper, Mica and Gold (in major producing countries)Power Resources Production and utilization of coal, Petroleum, Hydroelectricity and atomic energy
- Unit-IV** Location Factors of Industries and their relative significance, Webers theory of Industrial location, Types of industries, Location patterns and development trends of Manufacturing industries-Iron and steel, Textiles, Ship Building, Sugar Paper and Chemicals, Major Industrial regions of U.S.A. U.K. and Japan.
- Unit-V** Means and modes of transport-major trans continental railways, International Air and Sea routes; inland water ways (Panama and Suez Canals); Changing pattern of international Trades, Major Trade organizations and trade blocks- COMECON, EFTA, ASEAN, NAFTA, OPEC- their objectives and trade relations.

Books Recommended

1. Alexander, J.W., Economic Geography, Prentice-Hall, New Delhi.
2. 2. Robinson, A.H. Jones, C.F. and Darkenwarld G.G Principles of Economic Geography.
3. Boesh, Hans, A Geography of World Economy, Von Nostrand, New York.
4. Bengston and Royen, Fundamentals of Economic Geography.
5. Zimmerman, E.W. Introduction to World Resources.
6. Chisholm, M., Modern World Development- A Geographical Perspective.
7. Singh,K.N.& Singh, J., Arthik Bhoogol ke Mool tatva (Hindi)
8. Jain, P, Arthik Bhoogol ki Samiksha (Hindi)
9. Srivastava, V.K. & Rao, B.P. Arthik Bhoogol.
- 10.Wheeler, J-O. et al; Economic Geography, john Wiley, New York 1995.
- 11.Robertson, D (ed.) Globalization and Environment,E. Elgas Co. U.K., 2001

Paper-II: Geography of India

- Unit-I** **India Physical Features:** Structure, Relief and Drainage System; Major Physiographic regions of India; The Indian Monsoon-origin and characteristics, effect of El Nino La Nina, climatic division, Soil types and conservation.
- Unit-II** Forest resources-their utilization and conservation; Power resources (water ,Coal, Mineral Oil and Atomic) and Mineral resources (Iron ore, Bauxite, Mica, Manganese) their reserve, distribution, production, trade and conservation.
- Unit-III** **Indian Economy:** Agriculture- main characteristic and problem of Indian agriculture; Irrigation, mechanization and Green Revolution; Major Agricultural regions. Industries- Locational Factors; development and spatial pattern of major industries (Iron and Steel, Textiles, Cement, Sugar, Paper, Oil Refinery and Fertilizers) Major Industrial regions.
- Unit-IV** Population –growth, distribution and density, demographic and occupational structure, Literacy, Urbanization with special reference to post- Independence period, Population problems. Transport and /Trade- Development of Transport Net-work, railway Zones, road development and air routes;
- Unit-V** Regional development& disparities after independence; Major issues and planning of some problem areas- Flood prone areas, Drought prone areas and Tribal areas.

Detailed geographical study of Uttar Pradesh

Books Recommended

1. Spate, O.H.K. & Learmonth A-T-A- India and Pakistan
2. Singh R,L.(ed), India-A Regional Geography.
- 3 . Sen Gupta, P., Economic Regions and Regionalization of India.
4. Mitra Ashok, Levels of Economic Development of India.
5. Singh, J., India-A Comprehensive Systematic Geography.
6. Sharma, T.C.& Countino, O., Economic Geography of India.
7. Verma, R.V. Geography of India (Hindi)
8. Bansal, S.C., Geography of India (Hindi)
9. Gopal Singh, Geography of India
10. Ramamurti, Geography of India Systematic.
11. Tiwari, R.C., Geography of India

PRACTICALS

(A) Lab Work.

- Unit-I** **Map Projections:** General Principles: Classification, properties and choice of map projections- merits and demerits. Construction of Cylindrical Equal area, Mercator's Conical with two Standard Parallels, Bonne's, Polyconic, Gnomonic Polar Zenithal and Stereographic Polar Zenithal projections.
- Unit-II** **Weather Maps** Use of weather instruments and weather symbols (Indian) Study and Interpretation of Indian daily Weather maps/ reports especially of January, March, July and October, Weather forecasting.

Unit-III Geological Maps Identification of rock- outcrops, bedding planes, Drawing of cross-section and determination of dip and bed thickness- simple and folded.

Unit-IV Surveying by Prismatic Compass, open traverse. Close traverse, Elimination of error. Bowditch Method, Axix Method. And Indian Clinometers Survey.

(B) Viva-Voce & Sessional Records

Division of Marks

(A) Lab Work: One question From each unit with internal choice, Duration three hours-40

(B) Viva-Voce & Sessional Records- 10

Books Recommended

1. Monkhouse, F-J- Maps & Diagrams.
2. Robbbbinson, A.H., Elements of Cartography.
3. Gregory, S., Statistical Method and the Geographer.
4. Smith, H.T.V. Aerial Photographs and their Applications.
5. Singh, R.L., Elements of Practical Geography.
6. Sing, L-R-& Singh, R.N. Map work and practical Geography (Eng/Hindi)
7. Sharma, J.P. Prayogatmak Bhoogol ki Rooprekha (Hindi)
8. Lal,Hira, Prayogatmak Boogol ke Adhar (Hindi)
9. Singh, J.et.al Bhaumiliya manchitro ki Rooprekha (Hindi)
- 10.Lal, Hira, Matratmal Bhoogol (Hindi)
- 11.Tiwari, R.C.and Tiwari, Sudha, Abhinav Prayogic Bhoogol.

B.A./B.SC. Part-III
PAPER-I
GEOGRAPHICAL THOUGHT

- Unit-I** The Field of geography; its place in the classification of sciences; geography as a selected concepts of geography- distributions; relationships, interactions, area differentiation and spatial organization.
- Unit-II** Dualisms in geography; systematic & Regional geography; physical& human geography. Systematic geography& its relations with systematic sciences and with regional geography. The myth and reality about dualisms.
- Unit-III** Geography in ancient Period- Contribution of Indian, Greek& Roman geographers Geography in middleage- Arab geographers, Renaissance period in Europe. Renowned travelers and their geographical discoveries.
- Unit-IV** German school of thought- Kant, Humboldt, Ritter, Richthoen, Ratzel, Hettner, French school of thought- Contribution of Blache & Brunhes.
- Unit-V** Soviet geographers, American school- Contribution of Davis, Sample, Hunthinton & Carl Sauer British school- Contribution of Mackinder, Herbertson & L.D. Stamp.

Books Recommended

1. Abler, Ronald; Adams, Hohn S.Gould Peter: Spatial Organization: The Geographers View of the World, Prentice Hall, N-J-1971.
2. Ali 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-1974.
5. Hartshorne, R: perspective on Nature of Geography, Rand McNally & Co. 1959.
6. Hussain, M.: Evolution of Geographic Thought, Rawat Pub: Jaipur. 1984.
7. Johnson, R.J.: Philosophy and Human Geography, Edward Arnold London, 1983.
8. Johnson, R.J.: The Future of Geography, Mehtuen, London, 1988.
9. Minshull R.: The Changing Nature of Geography, Hutchinson University Library, London, 1970.

Paper-II: ENVIRONMENTAL STUDIES

- Unit-1** Geography as a study of Environment, concept & components of environment, Development of environmental studies, Approaches to environmental studies, concept of ecology and ecosystem. Man-Environment relationship, Agricultural and Industrial practices, science, technology, Society and environment.
- Unit-II** The problem and causes of environmental degradation, Deforestation, soil erosion, Earthquakes and Tsunamis soil exhaustion, Desertification, Air pollution, water pollution Noise Pollution, Disposal of solid waste, Population pressure.
- Unit-III** Environmental management: Environmental education, preservation of ecological balance at local, regional and National level, Major environmental policies and program.
- Unit-IV** Sample studies- Ganga Action Plan, Tiger project, Tehri dam& Narmada Valley project.
- Unit-V** Emerging environmental issues; population explosion, food security, global Warming, bio-diversity and its conservation, sustainable development.

Books Recommended

1. Jagdish singh, Vatavaran Niyojan Aur Samvikas.
2. P.S. Negi. Eco- Development and Environmental Geography (Hindi)
3. G.P. Yadav & Ram Suresh, Paryavaran Adhyayan
4. V.K. Srivastava, Environmental and Scology (Hindi)
5. Griffth Taylor, Environmental race and migration.
6. Sharma, H.S. and Chattopadhyay, S.K, Sustainable Developments concepts and issues, concept, New Delhi-2000.
7. Reid, D., Sustainable Development, Earthscan, Pub. London, 1995.
8. Kayastha, S.L. and Kumra, V.K. (1985) Environmental Studies, Tara Book Agency, Varanasi.

Paper-III

Far East Asia

- Unit-I** Region as a geographical entity and as a component of global system. Basis of regionalization/ grouping of countries geographical, Political, historical, cultural, etc.
- Unit-II** Structure, Relief, climate and climatic regions, vegetation, Irrigation, Power and Mineral resources.
- Unit-III** Population- distribution, growth, distribution pattern, migration, Agriculture, Industries, Trade and Transport.
- Unit-IV** Strategic importance of the region, Geographical background of the modern problems.
- Unit-V** Detailed regional study of China and Japan.

Book Recommended

1. Dr. M.N.Nigam- Monsoon ka Asia
2. Vuswanath Tiwari- Asia Ka Bhaugolik Swaroop
3. Trewartha; G.T. Japan.

PRACTICALS

Part-(A) Practical & Field Work

Unit-I Statistical Analysis (i) Measures of Central Tendency- Mean, Median, Mode. Measures of Dispersion-Quartile range, Standard Deviation, Variance and co-efficient of variation. Correlation and Co- efficient of correlation.

Unit-II Methods of showing relief: Hachures, shading, contours & layertints; representation of different landforms by contours. Drawing of profiles, super imposed, composite & projected profiles. Slopes & gradients.

Unit-III (ii) Graphical Representation of Statistical Data- Histogram, Polygon, Frequency Curve, Scatter Diagram. Population distribution density and population projection.

Unit-IV Dumpy Level Survey and Sextant Survey

Part-(B) Field Study Report/Study Tour:

Select a village or a town or a ward of a city and prepare a report based on primary and secondary data with the help of maps and diagrams

Part-(C) Viva-Voce & Sessional Records

Division of Marks:

(a) Practical & field work	(10+10+10+10) 40
(b) (B) Field Study report/Study Tour	25
(c) Viva-Voce & Sessional Records	10

Note:- The T.A. &D.A. for the escorts of the study tour will be paid by the concerning college.

Books Recommended

- 1.Singh, R.L. Elements of Practical Geography, Kalyani Pub. New Delhi.
- 2.Khan, Z.A., Text book of practical Geography, Concept, New Delhi-1998.
- 3.Sharma J.P,- Prayoglk Bhugol.