

Syllabus for
BA/B.Sc.(General) Geography
Choice Based Credit System (CBCS)
Course effective from academic year 2019-20



GAUHATI UNIVERSITY

Guwahati-781014

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Core Course

CBCS-based U.G. Course in Geography, 2019
Syllabus of Regular Core Paper

Course Name: Physical Geography
Paper Code: GGY-RC-1016

Course objectives

- To provide a general idea about the topographic and surficial characteristics of the earth's surface to the students.
- To make the students aware of the dynamic geomorphic processes responsible for the development of landforms of varied types and nature.
- To impart applied scientific knowledge on landform development based on geomorphic concepts, principles and theories.

Specific outcomes

- The students will learn that the earth is unstable and it is undergoing constant changes due to dynamic earth's processes.
- The students will come to know about the meaning and scope of geomorphology, which is a major branch of Physical Geography.
- After gaining knowledge based on the contents embodied in this paper, the students will be able to realize the importance of geomorphological knowledge as applied in various developmental activities executed on the land and over the earth's surface.

Part A (Theory)

Credit 4 (40 Classes)

1. Physical Geography – Definition and Scope, Components of Earth System. **(8 classes)**
2. Atmosphere – Composition and the vertical structure, Heat Balance, Global Circulation Pattern, Monsoon, Koppen's Climatic Classification. **(12 classes)**
3. Lithosphere – Internal Structure of Earth based on Seismic Evidence **(8 classes)**
4. Endogenetic and Exogenetic processes, Works of River, Fluvial Cycle of Erosion – Davis **(12 classes)**

Part B (Practical)

2 Credit (20 classes of two hour duration each)

1. Relief representation from the topographical sheet (v-shaped valley, u-shaped valley, conical hill, cliff, uniform slope) (10 Classes) (12 Assignments)
2. Profile Drawing (Serial and superimposed) (8 Classes) (4 Assignments)
3. Rainfall-Temperature Graph, Climograph and Hythergraph (4 Classes) (6 Assignments)
4. Practical Note book 2 marks
5. Viva-voce 2 marks

Reading List

1. Conserva H. T., 2004: Illustrated Dictionary of Physical Geography, Author House, USA.
2. Gabler R. E., Petersen J. F. and Trapasso, L. M., 2007: Essentials of Physical Geography (8th Edition), Thompson, Brooks/Cole, USA.
3. Garrett N., 2000: Advanced Geography, Oxford University Press.
4. Goudie, A., 1984: The Nature of the Environment: An Advanced Physical Geography, Basil Blackwell Publishers, Oxford.
5. Hamblin, W. K., 1995: Earth's Dynamic System, Prentice-Hall, N.J.
6. Husain M., 2002: Fundamentals of Physical Geography, Rawat Publications, Jaipur.
7. Monkhouse, F. J. 2009: Principles of Physical Geography, Platinum Publishers, Kolkata.
8. Strahler A. N. and Strahler A. H., 2008: Modern Physical Geography, John Wiley & Sons, New York.

Core Course

CBCS-based U.G. Course in Geography, 2019
Syllabus of Regular Core Paper

Course Name: Human Geography
Paper Code: GGY-RC-2016

Course objectives

- This paper is a core paper that intends to introduce students to human geography and how humankind transforms and gets transformed by geographic space.
- It seeks to develop new insights among students on the relevance of human-environmental relationships and how a spatial perspective shapes these relationships.

Course outcomes

- The paper will be useful for students in developing ideas on human-environment issues that geographers usually address in the anthropocene
- The paper will be useful for students preparing for UGC NET/SLET exams and other competitive exams including the civil services.

Part A (Theory)

4 Credit (40 classes)

1. Field of human geography: meaning, scope and importance. **(8 classes)**
2. Concepts of man-environment relationship: Determinism and Possibilism. **(8 classes)**
3. Impact of environment on man; impact of man on environment; population growth and environmental changes; house types in different environmental conditions. **(10 classes)**
4. Global patterns of racial, religious and linguistic composition of population. **(7 classes)**
5. Origin, growth and characteristics of rural and urban settlements; Patterns of rural settlements; Patterns of urbanization in India and N.E. India. **(7 classes)**

Part B (Practical)

2 Credit (20 classes of two hour duration each)

1. Traditional house types of selected ethnic groups of North-East India. **(4 classes)**
(1 assignment)

2. Trend of population growth in the world in relation to five most populous countries of the world using line graph. (4 classes) (1 assignment)
3. Religious composition of population in the world and three most populous countries of the world using pie-graph. (4 classes) (2 assignments)
4. Spatial patterns of urban population in Assam and N.E. India at state level through choropleth map. (4 classes) (2 assignments)
5. Drawing of major rural settlement types/patterns; Morphological diagram of a village and a town (preferably based on student's own village and town). (4 classes) (3 assignments)
6. Practical Note book 2 marks
7. Viva-voce 2 marks

Reading List

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
3. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
4. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
6. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
7. Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
8. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
9. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur

Core Course ✓

CBCS-based U.G. Course in Geography, 2019
Syllabus of Regular Core Paper

Course Name: Economic Geography
Paper Code: GGY-RC-3016

Course Objective:

- This is a regular core paper with a view to make the students understand the basic principles of economic geography and associated patterns and processes of major economic activities in the world.
- It seeks to develop insights among the students about the relevance of studying economic geography and understanding contemporary economic problems from geographical perspective.

Course Outcomes:

- This paper will be useful for the students in developing understanding on how geographical factors organize economic space, and to acquire knowledge about spatial patterns of various economic activities on the earth.

Part A (Theory)
Credit 4 (40 classes)

1. Meaning and scope of Economic Geography. **(3 classes)**
2. Economic activity: meaning and classification; Production system: Role of land, labour and capital; Resource: Concept and classification. **(6 classes)**
3. Agriculture: Factors influencing agriculture; types of agriculture; Factors influencing cultivation of wheat, rice and tea, and their distribution and production in the world. **(10 classes)**
4. Manufacturing: Factors influencing industrial location; types of industry; Factors, distribution and production of iron and steel and cotton textile industry in the world. **(10 classes)**
5. Transport system: Modes of transport, factors influencing transport development and role of transport in resource mobilization and industrial development. **(6 classes)**
6. Trade: Factors influencing trade; Trade relations of India with the countries like Bhutan, Nepal and Bangladesh. **(5 classes)**

Part B (Practical)

Credit 2 (20 classes of two hour duration each)

1. Trend of rice, wheat and iron & steel production in the world/India since 1960 using moving average method. (5 classes) (3 assignments)
2. Trend of production of wheat, rice, maize and barley in the world/India since 1960 using Band-graph. (4 classes) (2 assignments)
3. Trend of balance of trade relations (export and import value) of India with Bangladesh, Nepal and Bhutan in respect of major commodities since 1990 using Bar-graph. (4 classes) (2 assignments)
4. Regional variation in fertilizer consumption and agricultural productivity in rice, wheat and barley in selected countries of the world using Bar-graph. (3 classes) (1 assignment)
5. Inter-state and Inter-nation volume of movement of selected commodities through flow cartogram. (4 classes) (2 assignments)
6. Practical Note book 2 marks
7. Viva-voce 2 marks

Reading List

1. Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
2. Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction, Wiley-Blackwell.
3. Hodder B. W. and Lee Roger, 1974: Economic Geography, Taylor and Francis.
4. Combes P., Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
5. Wheeler J. O., 1998: Economic Geography, Wiley..
6. Durand L., 1961: Economic Geography, Crowell.
7. Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future. Taylor and Francis.
8. Willington D. E., 2008: Economic Geography, Husband Press.
9. Clark, Gordon L.; Feldman, M.P. and Gertler, M.S., eds. 2000: The Oxford
10. Saxena, H.M., 2013: Economic Geography, Rawat Publications, Jaipur.

CBCS-based U.G. Course in Geography, 2019

Syllabus of Regular Core Course

Course Name: Geography of India and NE India

Paper Code: GGY-RC-4016

Course objectives

- This is a core paper which intends to introduce students to India as a geographical entity.
- It seeks to develop new insights among students on significant geographical dimensions of the country along with its north-eastern part.
- A field study is incorporated to make the students understand regional diversity of India with respect to its land, people and economy.

Course outcome

- The paper will be useful for students in developing understanding on Indian geography and its various dimensions.
- It will also be useful for students preparing for UGC NET/SLET examinations along with civil services and other competitive examinations.

Part A: Theory

Credit: 4

(40 classes of 1 hour duration each)

1. India's location and its significance; administrative divisions. **(2 classes)**
2. Physical setting: Physiographic divisions and their characteristics; Climate and its seasonal and regional characteristics; vegetation; soil types and its distribution. **(8 classes)**
3. Population: Trend of growth, spatial variation in growth and distribution; Age and sex composition; Linguistic and religious composition. **(6 classes)**
4. Agriculture: Regional distribution and production patterns of rice, wheat and millet. **(4 classes)**
5. Industry: Distribution and production patterns of iron and steel, cotton textile and fertilizers; Role of transport system in industrial development. **(6 classes)**
6. North-East India: Land of seven sisters and its locational significance; physiographic framework; forest cover; agricultural practices including shifting cultivation; industrial development scenario; population growth, distribution and ethnic composition. **(14 classes)**

Part B: Practical
Credit: 2
(20 classes of 2 hour duration each)

Unit 1: 10 marks (2 Questions of 5 marks each)

1. Trend of population growth and growth rates in India and N.E. India since 1901 using Census data (Source: censusindia.gov.in) (2 assignments)
2. Choropleth mapping to show spatial variation in decennial population growth rate in India. (1 assignment)
3. Spatial variation in the patterns of religious composition of population in India and Social composition of population (SC, ST and General) in N.E. India using pie-graph. (2 assignments)
4. Trend of foodgrains production (rice, wheat, maize, barley, jowar and bajra) in India since 1950-51 using band-graph. (1 assignment)
5. Map showing distribution of major tribal groups in North-East India (1 assignment)

Unit 2: 6 Marks (4+2)

6. Preparation of field report based on field study of observational knowledge about the geographical personality of any part of India/N.E. India under the guidance of teacher(s).

Unit 3: 4 Marks (2+2)

7. Practical Note-book and viva-voce.

Reading List:

1. Deshpande C. D., 1992: India: A Regional Interpretation, ICSSR, New Delhi.
2. Johnson, B. L. C., ed. 2001. Geographical Dictionary of India. Vision Books, New Delhi.
3. Mandal R. B. (ed.), 1990: Patterns of Regional Geography – An International Perspective. Vol. 3 – Indian Perspective.
4. Sdyasuk Galina and P Sengupta (1967): Economic Regionalisation of India, Census of India
5. Sharma, T. C. 2003: India - Economic and Commercial Geography. Vikas Publ., New Delhi.
6. Singh R. L., 1971: India: A Regional Geography, National Geographical Society of India.
7. Singh, Jagdish 2003: India - A Comprehensive & Systematic Geography, Gyanodaya Prakashan, Gorakhpur.
8. Spate O. H. K. and Learmonth A. T. A., 1967: India and Pakistan: A General and Regional Geography, Methuen.
9. Tirtha, Ranjit 2002: Geography of India, Rawat Publs., Jaipur & New Delhi.
10. Pathak, C. R. 2003: Spatial Structure and Processes of Development in India. Regional Science Assoc., Kolkata.

CBCS-based U.G. Course in Geography, 2019

Syllabus of Regular Course (Discipline specific elective)

Course Name: Environmental Geography and Disaster Management

Paper Code: GGY-RE-5016

Total Credit: 6 (4+2)

Total Marks: 100

(Theory: 60, Practical: 20 and Internal Assessment: 20)

Course Objectives:

- This is a discipline specific elective paper which intends to introduce students to geography and environment interface.
- It seeks to develop new insights among students on the relevance of environmental studies from spatial perspective.

Course Outcomes:

- The paper will be useful for students in developing ideas on environmental issues including disasters that geographers usually address.
- The paper will also be useful for students preparing for different competitive exams including the civil services.

Part I: Theory

Credit: 4 (60 Marks)

(40 Classes of 1 hour each)

1. Environmental Geography: Nature, Scope and Significance. **(4 Classes)**
2. Human-Environment Relationships – Historical progression; Adaptation in different Biomes. **(6 Classes)**
3. Major Global Environmental Problems: Pollution, Deforestation, Desertification, Global Warming and Bio-Depletion. **(10 Classes)**
4. Meaning of Hazard, Disaster, Risk and Vulnerability; Types of hazard/disaster (Natural and Manmade). **(4 Classes)**
5. Disaster Management Cycle and Phases: Prevention, Preparedness, Response, Rehabilitation, Reconstruction and Mitigation, **(4 Classes)**
6. Major Hazards and Disasters, and their Management: Flood, Earthquake, Wildfire, and Chemical and Nuclear explosions. **(6 Classes)**
7. National Environmental Policy and National Disaster Management Plan: Environmental Protection Act 1986 and Disaster Management Act 2005. **(6 Classes)**

Unit II: Practical Note-Book and Viva-voce (4 Marks)

1. Evaluation of Practical Note-Book (2 Marks)
2. Viva-voce (2 Marks)

Reading List:

1. Chandna R. C., 2002: Environmental Geography, Kalyani, Ludhiana.
2. Cunningham W. P. and Cunningham M. A., 2004: Principals of Environmental Science: Inquiry and Applications, Tata Macgraw Hill, New Delhi.
3. Goudie A., 2001: The Nature of the Environment, Blackwell, Oxford.
4. Singh, R.B. (Eds.) (2009) Biogeography and Biodiversity. Rawat Publication, Jaipur
5. Miller G. T., 2004: Environmental Science: Working with the Earth, Thomson BrooksCole, Singapore.
6. MoEF, 2006: National Environmental Policy-2006, Ministry of Environment and Forests, Government of India.
7. Singh, R.B. and Hietala, R. (Eds.) (2014) Livelihood security in Northwestern Himalaya: Case studies from changing socio-economic environments in Himachal Pradesh, India. Advances in Geographical and Environmental Studies, Springer
8. Odum, E. P. et al, 2005: Fundamentals of Ecology, Cengage Learning India.
9. Singh S., 1997: Environmental Geography, PrayagPustakBhawan. Allahabad.
10. UNEP, 2007: Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme.
11. Singh, M., Singh, R.B. and Hassan, M.I. (Eds.) (2014) Climate change and biodiversity: Proceedings of IGU Rohtak Conference, Volume 1. Advances in Geographical and Environmental Studies, Springer
12. Singh, R.B. (1998) Ecological Techniques and Approaches to Vulnerable Environment, New Delhi, Oxford & IBH Pub..
13. Alcántara-Ayala, I. (2002). Geomorphology, natural hazards, vulnerability and prevention of natural disasters in developing countries. *Geomorphology*, 47(2-4), 107-124.
14. Goudie, A., & Ayala, I. A. (2010). *Geomorphological hazards and disaster prevention*. Cambridge University Press.
15. <https://www.undrr.org/publications>
16. <http://sdmassam.nic.in/dmp.html#ddmp>
17. https://ndma.gov.in/sites/default/files/PDF/DM_act2005.pdf
18. http://sdmassam.nic.in/pdf/publication/undp/disaster_management_in_india.pdf.

CBCS-based U.G. Course in Geography, 2019
Syllabus for Discipline-Specific Elective Course (Regular)
Course Name: Social and Political Geography
Paper Code: GGY-RE-6016
Total Credit: 6 (4+2)
Total Marks: 100

(Theory: 60, Practical: 20 and Internal Assessment: 20)

Course Objectives:

- To appreciate the social and political dimensions of geographic phenomena.
- Understand how geography influences political issues and their spatial dimensions.

Course Outcomes:

- This course will help equip the students to comprehend various social and political aspects of phenomena and their interface within the realm of geography.
- The paper will be very useful for students preparing for various competitive examinations including civil services.

Part 1: Theory

Credit: 4 (60 Marks)

(40 classes of 1 hour duration each)

Unit 1: Social Geography (30 Marks)
Classes)

(20

1. Social Geography: Meaning, Scope and approaches of study. (4 Classes)
2. Concept and types of social space and social groups. (4 Classes)
3. Social Well-being: Concept and components: Housing, health and education; Concept of human development and its measurements. (4 Classes)
4. Contribution of race, religion, language and ethnicity in promoting diversity in India. (3 Classes)
5. Social geographies of inclusion and exclusion: Basic concept and characteristics of caste system, slums, social crime and gender identity. (4 Classes)

Unit 2: Political Geography (30 Marks)

(20 Classes)

1. Political Geography: Nature, scope and approaches to its study. (4 Classes)
2. Concept of state, nation, and nation-state; Attributes of state. (3 Classes)
3. Concept of frontiers and boundaries; boundary problems with reference to India and North-East India; Concept of buffer zones.

(5Classes)

4. Concept of Geopolitics; Mackinder's Heartland Theory. (4Classes)

Part II: Practical
Credit: 2 (20 Marks)

(20 classes of 2 hour duration each)

Unit 1: Practical Works (16 Marks)

(Two questions of 8 marks each)

1. Mapping the patterns of human development in India and Assam using HDI(1 Exercise)
2. Construction of Ternary diagram representing social composition of population in India /North- East India (1 Exercise)
3. Sex disparity in literacy in India /North-East India using a simple Index.(1 Exercise)
4. Computation of Shape Index for selected states and countries.(2 Exercises)
5. Construction of a map of India/North-East India highlighting the major inter-state boundary conflict zones. (2 Exercises)
6. Reorganization of states of North-East India during Pre and Post Independence periods (up to the present). (3 Exercises)

Unit II: Practical Note-Book and Viva-voce (4 Marks)

1. Evaluation of Practical Note-Book (2 Marks)
2. Viva-voce (2 Marks)

Reading List:**Social Geography**

1. Ahmad, A., 1999: Social Geography, Rawat Publications, Jaipur and New Delhi.
2. Ahmad, A., (ed), 1993: Social Structure and Regional development: A Social Geography Perspective, Rawat Publications, Jaipur.
3. Carter, John and Trevor, Jones. 1989: Social Geography: An Introduction to Contemporary Issues, Edward Arnold, London.
4. Eyles, J.: 'Social Geography', in Johnston, R.J., et al, The Dictionary of Human Geography.
5. Jones, E. and Eyles, J., 1977: An Introduction to Social Geography, Oxford University Press, Oxford and New York.
6. Jones, E.,(ed), 1975: Readings in Social Geography, Oxford University Press, Oxford.
7. Sharma, H.N., 2000: 'Social Geography' in Singh, J. (ed.) Progress in Indian Geography (1996-2000), INSA, New Delhi.
8. Smith, D.M., 1977: Human Geography: A Welfare Approach, Edward Arnold, London.
9. Sopher, D.E. (ed), 1980: An Exploration of India: Geographical Perspectives on Society and Culture, Longman, London.
10. Srinivas, M.N., 1986: India: Social Structure, Hindustan Publishing Corporation, Delhi.
11. Taher, M., 1994: An Introduction to Social Geography: Concept and Theories, NEIGS Guwahati. 37

Political Geography

1. Adhikari, S., 1996 : Political Geography, Rawat Publications, Jaipur and New Delhi.
2. De Blij, H.J., 1972 : Systematic Political Geography, John Wiley, New York.
3. Dikshit, R.D., 1982 : Political Geography : A Contemporary Perspective, Tata McGraw Hill Publishing Co. Ltd., New Delhi.
4. Muir, R., 1975 : Modern Political Geography, Macmillan Ltd., London.
5. Pounds, N.J.G., 1972 : Political Geography, McGraw Hill, New York.
6. Prescott, J.R.V., 1972 : Political Geography, Methuen, London.
7. Sukhwai, B.L., 1979: Modern Political Geography of India, Sterling, New Delhi. Taylor, P.J., 1989: Political Geography, Longman, London.
