



## Bachelor of Arts Programme: Geography

Scheme of Examination, Course Outline and Reading List  
Admission 2011 onwards

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### SCHEME OF EXAMINATION AND COURSE STRUCTURE

The **Bachelors of Arts Programme** of the University of Delhi offers 6 papers in Geography of 100 marks each spread over six semesters, with 40-50 contact hours per course. Besides these, the programme of study has papers from other disciplines as prescribed by the University.

**Course Structure:** All the 6 papers in Geography are theory papers.

**Contact Hours:** For each paper, 5 hours per week (*4 Lectures and 1 Tutorial*) and the group size for tutorial will not exceed 8 students per group.

The distribution of all the papers per semester is as follows:

SEMESTER I	101	Physical Geography
SEMESTER II	201	Human Geography
SEMESTER III	301	Geography of India *
	302	Geo-Environmental Issues in India *
SEMESTER IV	401	General Cartography *
	402	Statistical Methods in Geography *
SEMESTER V	501	Geography of Resource *
	502	Geography of Environment *
SEMESTER VI	601	World Economic Geography *
	602	Agricultural Geography *



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### **PAPER 101                      PHYSICAL GEOGRAPHY**

#### **Course Outline**

1. Physical Geography – Definition and Scope, Components of Earth System.
2. Atmosphere – Heat Balance, Global Circulation Pattern, Tropical Cyclones, Monsoon, Climatic Classification Koppen.
3. Lithosphere – Internal Structure of Earth based on Seismic Evidence, Plate Tectonics and its Associated Features, Soil Profile.
4. Fluvial Cycle of Erosion – Davis and Penck.
5. Hydrosphere – The Hydrologic Cycle, Tides and Currents.

#### **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* (8<sup>th</sup> Edition), Thompson, Brooks/Cole, USA.
3. Garratt 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.



**PAPER 201                      HUMAN GEOGRAPHY**  
**Course Outline**

1. Defining the Field – Nature and Scope, Major Subfields, Contemporary Relevance.
2. Spatial Scales – Global, Nation-State, Region, Local, Community, Home and Body.
3. Components of Spatial Analysis – Area, Space and Region, Distance and Interaction, Location, Diffusion, and Spatial Patterns.
4. Key Paradigms – Determinism and Possibilism, Areal Differentiation, Spatial Organisation, Humanistic and Radical Geography, Towards Post Modernism.
5. Contemporary Concerns – Issues of Urbanization, Uneven Development, Diversity and Discrimination based on Age, Gender, Race and Religion.

**Reading List**

1. Agnew J. A. and Duncan J. S., 2011: *The Wiley Blackwell Companion to Human Geography*, John Wiley and Sons.
2. Blij H. J. de, 1996: *Human Geography: Culture, Society and Space*, (5<sup>th</sup> Edition), John Wiley and Sons.
3. Daniels P., Bradshaw M., Shaw D. and Sidaway J., 2001: *Human Geography, Issues for the 21st Century*, Pearson.
4. Fouberg E. H., Murphy A. and Blij H.J. de, 2009: *Human Geography: People, Place and Culture*, John Wiley and Sons.
5. Gerner A., 2010: *Visualising Human Geography: At Home in a Diverse World*, John Wiley and Sons.
6. Hubbard P., Kitchin R., Bartley B. and Fuller D., 2002: *Thinking Geographically: Space, Theory and Contemporary Human Geography*, Continuum.
7. Johnston R.J. (et. al.), 2001: *Dictionary of Human Geography*, Blackwell.
8. Knox P. L. and Martson S. A., 2001: *Places and Regions in Global Context: Human Geography* (2<sup>nd</sup> Edition), Prentice Hall.



**PAPER 301                      GEOGRAPHY OF INDIA**  
**Course Outline**

1. Physical Setting – Location, Structure and Relief, Drainage, Climate, Soil and Vegetation.
2. Population and Settlements – Population (Population Size and Growth since 1871, Population Distribution, Literacy, Sex Ratio, Work-Force, Occupational Structure), and Settlement System (Rural House Types, Urbanisation Pattern).
3. Resource Base – Livestock (cattle and fisheries), Power (coal, and hydro-electricity), Minerals (iron, mica and aluminium).
4. Economy – Agriculture (Rice, Wheat, Sugarcane, Groundnut, Cotton), Industries (Cotton Textile, Iron-Steel, Automobile), Transportation Modes (Road and Rail).

**Reading List**

1. Hussain M., 1992: *Geography of India*, Tata McGraw Hill Education.
2. Mamoria C. B., 1980: *Economic and Commercial Geography of India*, Shiva Lal Agarwala.
3. Miller F. P., Vandome A. F. and McBrewster J., 2009: *Geography of India: Indo-Gangetic Plain, Thar Desert, Major Rivers of India, Climate of India, Geology of India*, Alphascript Publishing.
4. Nag P. and Sengupta S., 1992: *Geography of India*, Concept Publishing.
5. Pichamuthu C. S., 1967: *Physical Geography of India*, National Book Trust.
6. Sharma T. C. and Coutinho O., 1997: *Economic and Commercial Geography of India*, Vikas Publishing.
7. Singh Gopal, 1976: *A Geography of India*, Atma Ram.
8. Spate O. H. K. and Learmonth A. T. A., 1967: *India and Pakistan: A General and Regional Geography*, Methuen.



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### **PAPER 302                      GEO-ENVIRONMENTAL ISSUES IN INDIA**

#### **Course Outline**

Following four major **Geo-Environmental Issues** will be studied with reference to **India**:

1. Climate and Land Degradation
2. Forest and Livelihood
3. Industrialisation and Urbanisation
4. Sustainable Development and Social Justice

#### **Reading List:**

1. Chattopadhyay S. and Sharma H. S., 1998: *Sustainable Development: Issues and Case Studies*, NAGI and Concept Publishing.
2. Chettri P., 2002: *Industrialisation in India: Policy Framework and Development*, Uppal Publication.
3. Human J. and Pattanaik M., 2000: *Community Forest Management: A Casebook from India*, Oxfam.
4. Khare A., Mayers J. and Morrison E., 2000: *Joint Forest Management: Policy, Practice and Prospects*, WWF for Nature India and IIED.
5. Kumar P., 2004: *Economics of Soil Erosion: Issues and Imperatives from India*, Concept Publishing.
6. Shukla P. R., 2003: *Climate Change and India: Vulnerability Assessment and Adaptation*, Universities Press.
7. Singh S. C., 2006: *Social Justice and Human Rights in India*, Serials Publications.
8. Venkateswarlu U., 1998: *Urbanisation in India: Problems and Prospects*, New Age International.



**PAPER 401                      GENERAL CARTOGRAPHY**  
**Course Outline**

1. Maps – Types, Elements and Uses
2. Map Scale – Types and Application, Reading Distances on a Map.
3. Map Projections – Criteria for Choice of Projections; Attributes and Properties of: Zenithal Gnomonic Polar Case, Zenithal Stereographic Polar Case, Cylindrical Equal Area, Mercator's Projection, Conical Projection with Two Standard Parallels, Bonne's Projection.
4. Representation of Data – Symbols, Dots, Choropleth, Isopleth and Flow Diagrams, Interpretation of Thematic Maps.

**Note:** This paper is not a practical paper, and the objective is to give basic information about various tools and techniques used in making maps. Students will not be involved in any laboratory work or hands on exercises, though a few demonstrations in the laboratories by teachers are recommended.

**Reading List**

1. Dent B. D., 1999: *Cartography: Thematic Map Design*, (Vol. 1), McGraw Hill.
2. Gupta K. K and Tyagi V. C., 1992: *Working with Maps*, Survey of India, DST, New Delhi.
3. Mishra R. P. and Ramesh A., 1989: *Fundamentals of Cartography*, Concept Publishing.
4. Robinson A., 1953: *Elements of Cartography*, John Wiley.
5. Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers.
6. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
7. Singh R. L., 1998: *Prayogic Bhoogol Rooprekha*, Kalyani Publications.
8. Steers J. A., 1965: *An Introduction to the Study of Map Projections*, University of London.



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### **PAPER 402                      STATISTICAL METHODS IN GEOGRAPHY**

#### **Course Outline**

1. Statistical Methods in Geography – Significance, Sources of Data, Scales of Measurement (Nominal, Ordinal, Interval and Ratio), Sampling (purposive and probability).
2. Summarizing Data – Tabulation, Frequency Distributions, Measures of Central Tendency and Centromography.
3. Measures of Dispersion – Standard Deviation, Variance, Coefficient of Variation.
4. Simple Correlation – Product Moment, Rank Correlation; Simple Regression.

#### **Reading List**

1. Ebdon D., 1977: *Statistics in Geography: A Practical Approach*, Blackwell.
2. Hammond P. and McCullagh P. S., 1978: *Quantitative Techniques in Geography: An Introduction*, Oxford University Press.
3. King 1969: *Statistical Analysis in Geography*, Prentice-Hall.
4. Mahmood A., 1977: *Statistical Methods in Geographical Studies*, Rajesh Publication.
5. Pal S. K., 1998: *Statistics for Geoscientists*, Tata McGraw Hill, New Delhi.
6. Silk J., 1979: *Statistical Concepts in Geography*, Allen and Unwin, London.
7. Spiegel M. R. and Stephens L. J., 2008: *Schaum's Outline of Theory and Problems of Statistics*, McGraw Hill Professional.
8. Yeats M, 1974: *An Introduction to Quantitative Analysis in Human Geography*, McGraw Hill, New York



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### **PAPER 501                      GEOGRAPHY OF RESOURCE**

#### **Course Outline**

Following four major Resources will be studied with respect to their distribution, utilisation, problems and management:

1. Land Resources
2. Water Resources
3. Biotic Resources
4. Energy Resources

#### **Reading List**

1. Chiras D. D. and Reaganold J. P., 2005: *Natural Resources Conservation: Management for a Sustainable Futures*, Prentice Hall
2. Cutter S. L., 2004: *Exploitation: A Geographic Perspective on Natural Resource Use*, John Wiley and Sons
3. Holmbeck R.A., et.al. 2000: *Natural Resources: Ecology, Economics and Policy*, Prentice Hall
4. Howitt R., 2001: *Rethinking Resource Management: Justice, Sustainability and Indigenous Peoples*, Routledge.
5. Mather A. S. and Chapman K., 1995: *Environmental Resources*, Longman, Harlow, England.
6. Mitchell B., 1997: *Resources and Environmental Management*, Longman, London.
7. Owen S. and Owens P. L., 1991: *Environment, Resources and Conservation*, Cambridge University Press, New York.
8. Rees J., 1990: *Natural Resources: Allocation, Economics and Policy*, Routledge, London.



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### **PAPER 502                      GEOGRAPHY OF ENVIRONMENT**

#### **Course Outline**

1. Introduction – Environment, Ecology, Approaches.
2. Ecosystem – Energy Flow, Food Chain, Food Web, Trophic Structure, Ecological Balance and Pyramid.
3. Man-Environment Relationship.
4. Environmental Policies in India.

#### **Reading List**

1. Balakrishnan M., 1998: *Environmental Problems and Prospects in India*, Oxford & IBH Pub., New Delhi.
2. Hussain M., (ed.) 1996: *Environmental Management in India*, Rawat Pub., Jaipur
3. Hooja R., (ed.) 1999: *Desert, Drought and Development: Studies in Resource Management and Sustainability*, Rawat Pub, Jaipur
4. Munn T., (ed.) 2001: *Encyclopaedia of Global Environmental Change*, John Wiley & Sons, West Sussex
5. Ramakrishnan P. S., 1998: *Conservation and Management of Biological Resources in Himalaya*, Oxford & IBH Pub., New Delhi.
6. Saxena R. K., 1987: *Environmental Management in India*, A.P. H. Pub., New Delhi.
7. Saxena H. M., 1999: *Environmental Geography*, Rawat Pub., Jaipur.
8. Singh S., 1997: *Environmental Geography*, Prayag Pustak Bhawan, Allahabad.



**PAPER 601                      WORLD ECONOMIC GEOGRAPHY**  
**Course Outline**

1. Defining the Field – Meaning, Approaches and Fundamental Concepts; Patterns of Development.
2. Locational Theories – Von Thunen 1826, Weber 1907 and Christaller 1933.
3. Primary Activities – Intensive Subsistence Farming, Commercial Grain Farming, Commercial Plantation, Commercial Dairy Farming, Commercial Fishing, and Commercial Mining (iron ore, copper and petroleum).
4. Secondary Activities – Cotton Textile Industry, Petro-Chemical Industry, Manufacturing Regions.
5. Tertiary and Quaternary Activities – Modes of Transportation, Patterns of International Trade, and Information and Communication Technology Industry.

**Reading List**

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



**PAPER 602**  
**Course Outline**

**AGRICULTURAL GEOGRAPHY**

1. Defining the Field – Meaning and Approaches; Basic Concepts (Land use, Cropping Pattern and Crop-Combination, Agricultural Productivity and Efficiency).
2. Agricultural Patterns – Physical, Technological and Institutional Determinants.
3. Agricultural Systems of the World – Bases and Classification.
4. Sustainable Agricultural Production and Food Security.

**Reading List**

1. Burger, A., 1994: *Agriculture of the World*, Aldershot, Avebury.
2. Grigg, D.B., 1984: *Introduction to Agricultural Geography*, Hutchinson, London.
3. Ilbery B. W., 1985: *Agricultural Geography: A Social and Economic Analysis*, Oxford University Press.
4. Mohammad, N., 1992: *New Dimension in Agriculture Geography*, Vol. I to VIII, Concept Pub., New Delhi.
5. Roling, N. G., and Wageruters, M.A.E., ed. 1998: *Facilitating Sustainable Agriculture*, Cambridge University Press, Cambridge.
6. Shafi, M., 2006: *Agricultural Geography*, Doring Kindersley India Pvt. Ltd., New Delhi
7. Singh, J., and Dhillon, S.S., 1984: *Agricultural Geography*, Tata McGraw Hill, New Delhi.
8. Tarrant J. R., 1973: *Agricultural Geography*, David and Charles, Devon.