

**DEPARTMENT OF GEOGRAPHY
FACULTY OF NATURAL SCIENCES
JAMIA MILLIA ISLAMIA
NEW DELHI - 110 025**

(A Central University by an Act of Parliament)



B.A. / B.Sc. (Subsidiary) Geography

Syllabus (w.e.f. 2015-2017)

Course Structure B.A. / B.Sc. (Subsidiary) Geography (Code- S)

Semester - I

Paper No.	Paper Code	Title	Credit
Paper - I	GEB – 101(S)	Basics of Geomorphology	4

Semester - II

Paper No.	Paper Code	Title	Credit
Paper - II	GEB - 201(S)	Basics of Climatology and Oceanography	4

Semester - III

Paper No.	Paper Code	Title	Credit
Paper - III	GEB - 301(S)	Human Geography	4

Semester - IV

Paper No.	Paper Code	Title	Credit
Paper - IV	GEB - 401(S)	Geography of Resources	4

Semester - V

Paper No.	Paper Code	Title	Credit
Paper - V	GEB - 501(S)	Geography of India	4

Semester - VI

Paper No.	Paper Code	Title	Credit
Paper - VI	GEB - 601(S)	Disaster Management	4

GRAND TOTAL

Semester	Subsidiary			Total Papers	Credits
	Theory	Practical	Total		
I	01	-	01	01	04
II	01	-	01	01	04
III	01	-	01	01	04
IV	01	-	01	01	04
V	01	-	01	01	04
VI	01	-	01	01	04
Total Papers	06	-	06	06	24
Total Credits	6 * 4 =24	-	24		24

B.A. / B.Sc. (Subsidiary) Geography

Semester - I

Credits: 4

Paper - I (GEB - 101-S)

Basics of Geomorphology

Unit - I

The nature and scope of Geomorphology; Constitution of earth's interior; Geological Time Scale; Continental Drift, Plate Tectonics.

Unit - II

Forces of earth crust and earth movements; Folds and Faults; Rocks: Formation and Types; Volcanoes and Earthquakes; Weathering: Normal cycle of Erosion by Davis & Penck.

Unit - III

Topographic Features: Fluvial, Glacial, Aeolian, Karst and Coastal.

Unit - IV

Relevance of Geomorphological studies in Environment Management, Settlement and Industries.

Books Recommended:

1. Dayal, P., 2015. Text-Book of Geomorphology, Shukla Book Depot, Patna.
2. Gabler R.E, Peterson. J.F., Trapasso,L.M. 2009. Essentials of Physical Geography Brooks/Cole Cengage Learning.
3. Kale, V. and Gupta, A., 2004. Elements of Geomorphology. Oxford University Press, Calcutta.
4. Strahaler, A.H., 2013(6th edition). Introducing Physical Geography. Wiley Publication.
5. Thornbury, W.D., 1991. Principles of Geomorphology, Wiley Eastern Ltd., New Delhi.
6. Worcester, P.C. 1969. Text Book of Geomorphology. East West Press, New Delhi.
7. Savindra Singh. Fundamental Concepts in Geomorphology. Prayag Pustak Bhawan, Allahabad.
8. Gautam, A. 2015. Geomorphology. Sharda Pustak Bhawan.
9. Hugget, R.J. 2011. Fundamentals of Geomorphology. Routledge Publication.
10. Harvey, 2012. A. Introducing Geomorphology: A Guide to Landforms and Processes. Dunedin Academic Press.

B.A. / B.Sc. (Subsidiary) Geography
Semester - II
Credits: 4
Paper - II (GEB - 201-S)
Basics of Climatology and Oceanography

Unit - I

Composition and structure of the atmosphere; Weather and Climate: Temperature, Precipitation and pressure; Insolation and heat Budget.

Unit - II

Pressure Belts; Permanent, Seasonal and Local Winds; Air Masses and Fronts; Cyclones and anti cyclones.

Unit - III

Configuration of Ocean floor; Sub-marine relief of Atlantic and Indian Ocean; Temperature and Salinity; Tides and Currents; Ocean Deposits.

Unit - IV

Ocean Deposits; Corals and Atolls; Marine Resources: Conservation and Management.

Books Recommended:

1. Sharma, R.C. and Vatal, M., 2005(5th Edition). Oceanography for Geographers, Chaitanya Pub., Allahabad.
2. Trewartha, G.T. and Horn, L.A., 1980. Introduction to Climate, International Studies.
3. Lal, D.S. 2012. Climatology. Sharda Pustak Bhawan, Allahabad.
4. Andrews, David g.Lauthor. 2010. An Introduction to Atmospheric Physics. Cambridge University Press.
5. Singh. S. 2009. Oceanography. Prayag Pustak Bhawan, Allahabad.
6. Hussain, T. and Tahir, M. 2012. Climatology. Jawahar Publication, New Delhi.
7. Hussain, T and Tahir, M. 2012. Oceanography. Jawahar Publication, New Delhi.
8. Siddhartha, K. 2013. Oceanography: A Brief Introduction. Kisalaya Publication, New Delhi.
9. Singh, S. 2013. Physical Geography. Prayag Publication, Allahabad.
10. Hussain, Majid. 2009. Fundamentals of Physical Geography. Rawat Publication.

B.A. / B.Sc. (Subsidiary) Geography

Semester - III

Credits: 4

Paper - III (GEB - 301-S)

Human Geography

UNIT - I:

Definition, nature and scope of human geography; Branches of human geography; Dichotomy in physical and human geography; Geography as an integrated discipline; Concepts of man and environment relationship; Approaches to the Study of Human Geography: Environmentalism/Determinism, Possibilism, Stop and go determinism, Ecological and Modern Environmentalism.

UNIT - II:

Growth and Distribution of population in the world; Theories of Population growth: Malthus, Demographic transition; Theories and Models of Migration: Lee; Causes and consequences of Migration; Human Development Index.

UNIT - III:

Rural and Urban Settlements: Origin, Types and Patterns; Social space in rural setting; Internal structure of city; Central Place Theory;

UNIT - IV:

Man in eco-system; Ecological adaptation; Bio-Climatic regions of the World; Human adaptation in equatorial, monsoon, hot desert and tundra regions; Habitat, Economy and Society of Eskimo, Bushman, Gonds, Nagas and Bhills

Books Recommended:

1. Ahmad, Q.S. (1963): Major Natural Regions, S. Chand Publisher, Delhi.
2. Amit Harichandran, M.A. Chaudhry-2010: Global Vision Publication House, New Delhi.
3. Chandna, R.C. 2000: Geography of Population, Kalyani Publishers, New Delhi.
4. Chandna, R.C. 2015. Geography of Population: Concepts Determinants and Patterns, Kalyani Publishers.
5. Clark, J. 1972: Population Geography, Pergamon press, Oxford.
6. Kaushik, S.D. (1970): Manav Bhoogol, Rastogi & Co., Meerut.
7. Hoyt, J.B. (1973): Man and the Earth, Prentice Hall, New Jersey.
8. Husain, M. 1994: Human Geography, Rawat Publication house, Jaipur.
9. Husain, Majid (2010): Human Geography, Rawat Publication, Jaipur.
10. Husain, Majid (2010): Manav Bhoogol, Rawat Publication, Jaipur.
11. Norton, W. 2004: Human Geography, Oxford University Press, Canada.
12. Singh, J. 2002: Manva Evam Arthik Bhoogol, Gyanandya Parkashan, Gorakhpur.

B.A. / B.Sc. (Subsidiary) Geography

Semester - IV

Credits: 4

Paper - IV (GEB - 401-S)

Geography of Resources

Unit - I: Introduction

Definition of Resources: Context of Becoming resource; Nature of resources: Exhaustibility, degradability, renew ability and substitutability; Resources and market, technology and culture; Significance of Resources: Backbone of Economic growth and development; Pressure on resources.

Unit - II: Classification of Resources

Different approaches to the classification of resources; Exhaustible and inexhaustible, capital and stock, renewable and non-renewable, biotic and abiotic; and Types of resources by their uses.

Unit - III: Geographical Patterns of Resource Endowment

Geographical distribution of major food crops, livestock and fishery resources; Distributional patterns of biodiversity, forests, energy, land, freshwater and mineral resources; and world resource regions.

Unit - IV: Conservation and Management of Resources

Philosophy and Approaches to Conservation of Resources; Conservation of Major Resources: Soil, water, forest and minerals; Importance of biodiversity and its conservation; Resource appraisal and policy making; Management methods of resources; Resource Development and Sustainable resource management.

Books Recommended:

1. Roger Perman, Yue Ma and James Mc Gilvray (1997): Natural Resources and Environmental Economics, II Edition, Addison Weley Longman Ltd, Singapore.
2. John Bowers (1997): Sustainability and Environmental Economics, Addison Weley Longman Ltd, Singapore.
3. David W. Pearce and Kerry R. Turner (1999): Economics of Natural Resources and the Environment, The Johns Hopkins University press, Baltimore.
4. Adams, W.M. (1990): Green Development: Environment and Sustainability in the Third World, Routledge and Chapman Hall, New York.
5. Burton, I. and Kates, R.W. (1978): Readings in Resources Management and Conservation, McGraw Hill, New York.
6. Clark, G.L; Feldman, M.P. and Gertler, M.S. (Eds.) (2000): The Oxford Handbook of Economic Geography, Oxford University Press, Oxford and New York.

B.A. / B.Sc. (Subsidiary) Geography

Semester - V

Credits: 4

Paper - V (GEB - 501-S)

Geography of India

Unit - I

Physical Divisions of India; Drainage; Climate; Soil; Natural Vegetation.

Unit - II

Population: Distribution and its factors; Population Growth; Population Composition: Sex ratio, Rural and Urban, Literacy, Work force, Language, Religion.

Unit - III

Agricultural Crops: Food crops, Cash crops, Green Revolution; Minerals: Production and Distribution of Iron ore, Coal and Petroleum; Industries: Iron and Steel, Sugar and Cotton Textile; Transport and Communication.

Unit - IV

India as a Geographical Unit; Concept of Region: Scheme of Regionalization: R.L. Singh.

Books Recommended:

1. Deshpande C.D: Indian-A Regional Interpretation, Northern Book centre, New Delhi.1992.
2. Chauhan. T., 1997: Geography of Rajasthan, Vigyan Prakashan Jodhpur.
3. Farmer. B.H. An Introduction to South Asia, Methuen, London, 1983.
4. Govt. of India-Reference Annual, 2001 Pub.div; New Delhi.
5. Govt. Of India: National Atlas of India Natmo Publication, Calcutta.
6. Hussain. M. 2009,Geography of India, Tata Mc Graw-Hill companies Book.
7. Kalpana Raja Ram, 2007, Geography of India, Spectrum Books, New Delhi 110058.
8. Govt. of India: The Gazetteer of India. Vol. I & III Publication division.
9. Learmonth A.T.A et.al (ed) Man and land of South Asia, Concept
10. Mitra, A: levels of Regional development of India, Census of India, Vol.I, Part I-A (i) and (ii) New Delhi, 1967.
11. Routray, J.K.: Geography of Regional Disparity, Asian Institute of Technology, Bangkok, 1993.
12. Sdhekar.S.(edt.)2004, Regional Planning in India, Anmol Publications, New Delhi-2
13. Shafi, M: Geography of South Asia, McMillan & Co; Calcutta, 2000.
14. Singh, R.L. (Ed). India: A Regional Geography, National Geographical Society, India.

B.A. / B.Sc. (Subsidiary) Geography

Semester - VI

Credits: 4

Paper - VI (GEB - 601-S)

Disaster Management

Unit - I: Introduction

Disaster: Definition and significance; Difference between Hazard and Disaster; Disasters: Nature, Types and Magnitude;

Unit - II: Risk and Preparedness

Concept of Risk and Vulnerability, Techniques of Risk Assessment, People's Participation in Risk Assessment, National and Global cooperation in Risk Assessment; Disaster Preparedness; Concept and Nature; Role of Various Agencies and Government Organizations.

Unit - III: Planning and Management

Integrated Development Planning for Disaster Management, Pre-Disaster Planning and management; Early Warning and Prediction System; Post-Disaster Management: Rescue, Relief, Rehabilitation;

Unit - IV: National Perspective

Disaster Prone Areas of India; Seismic, Floods, Droughts, and Cyclones, National Disaster Policy of India.

Books Recommended:

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K.
2. Carter, W. Nick, 1991: Disaster Management, Asian Development Bank, Manila.
3. Central Water Commission, 1987, Flood Atlas of India, CWC, New Delhi.
4. Central Water Commission, 1989, Manual of Flood Forecasting, New Delhi.
5. Government of India, 1997, Vulnerability Atlas of India, New Delhi
6. Sahni, Pardeep et.al. (Eds.) 2002, Disaster Mitigation, Experiences and Reflections. Prentice Hall of India, New Delhi.