

**GOVERNMENT DEGREE COLLEGE FOR WOMEN
(AUTONOMOUS)
BEGUMPET, HYDERABAD**

Re-Accredited with 'B' Grade by NAAC



**CHOICE BASED CREDIT SYSTEM
(CBCS)
BOARD OF STUDIES IN GEOGRAPHY**

For

B A /B Sc GEOGRAPHY I YEAR

UNDER GRADUATE PROGRAMME

IN

DEPARTMENT OF GEOGRAPHY

Under MOOCS/Virtual classrooms

(2020-21)

**Faculty of Social Sciences
B.A./B.Sc Geography under MOOCs/Virtual Classrooms
GDCW (A), Begumpet, Hyderabad
Scheme for CBCS in BA/B.Sc Geography**

Course Type	Course Title	Hours per Week	No. of Credits
Semester-I			
DSC 1	Elements of Geomorphology	4 T	4
Practical-I	Elements of Mapping and Interpretation	3 P	1
Total		7	5
Semester-II			
DSC 2	Elements of Climatology and Oceanography	4 T	4
Practical – II	Basic statistics and weather maps	3 P	1
Total		7	5
Semester-III			
DSC 3	Human Geography	4 T	4
Practical – III	Maps and Diagrams	3 P	1
SEC - 1	Travel and Tourism	2	2
SEC - 2	Surveying Techniques and Cartography	2	2
Total		11	9
Semester-IV			
DSC 4	Economic Geography	4 T	4
Practical – IV	Map Projections	3 P	1
SEC - 3	Remote Sensing and GPS	2	2
SEC - 4	Fundamentals of GIS	2	2
Total		11	9

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B. A/B.Sc. I year, Revised Semester wise Syllabus (w. e. f. 2019-20)

Subject: Geography

Semester – I

Paper - I: Elements of Geomorphology

Course Outcome:

- Learn the details of theories regarding origin and evolution of the Earth system
- Comprehend the details of theories disclosing changes on earth's crust
- Understand the classification and characteristics of Composition of the Earth
- Learn about the intrusive forces of the earth such as earthquakes, volcanoes etc.
- Learn in details about extrusive forces with examples geomorphic agents

UNIT-I:

1. Land and Sea: Formation and distribution
2. Theories: Isostasy, Continental Drift, Plate Tectonics

UNIT-II:

3. Interior of Earth
4. Earthquakes
5. Volcanoes
6. Rocks
7. Weathering
8. Mass-wasting

UNIT-III:

9. Fluvial Landforms: Erosion and Depositional
10. Aeolian landforms: Erosion and Depositional

UNIT-IV:

11. Karst topography: Erosion and Depositional
12. Glacial topography: Erosion and Depositional

Basic Texts:

1. Critchfield (1997): General Climatology, Prentice Hall of India, New Delhi.
2. Strahler A. H. and Strahler A.N. (1971): Physical Geography, Willey eastern, New Delhi.
3. Trewartha (1968): An Introduction to Climate, Mc Graw Hill, New Delhi.

Additional Texts:

4. Tikka R. N. (1999): Physical Geography, Kedarnath & Ramnath &Co., Meerut.
5. Dasgupta and Kapoor (1998): Physical Geography, Chand & Co., New Delhi.
6. Lal, D.S. (1996): Climatology, Chaitanya Publishing House, Allahabad.
7. Savinder Singh (2013): Geomorphology, Prayag Pustak Bhavan, Allahabad.
8. Sparks B.W. (1965): Geomorphology, Brill Academic Publishers.

PRACTICAL – I: ELEMENTS OF MAPPING

1. Maps: Types – Cadastral – Topographical – Atlas – General Maps – Thematic Maps
2. Scales: Classification – Statement – Representative Fraction (R.F.) – Construction of Linear – Diagonal Scales
3. Representation of Relief – Spot heights, Bench marks, Layer colouring, Contours – Hachures and Hill shading, contours drawing.
4. Profile drawing and Interpretation: Simple Profile – Composite profile – Super imposed profile – Projected profile
5. Interpretation of topographical sheets

Basic Texts:

1. Monkhouse, F.J. and Wilkinson, H.R. (1968) Maps and Diagrams, Methuen, London.
2. Misra, R.P. and Ramesh, A (1999) Fundamentals of Cartography, Mac Millan, New Delhi.

Additional Texts:

1. Gopal Singh, (1996) Map Work and Practical Geography, Vikas Publishing House, New Delhi.
2. Singh, R.L. and Dutt, P.K. (1968) Elements of Practical Geography, Students Friends, Allahabad.
3. Negi, B.S. (1998) Practical Geography, Kedarnath and Ramnath, Meerut.

Semester – II

Paper - II: Climatology and Oceanography

Course Outcome:

- Understand in details with application, if applicable, atmospheric structure and composition
- Learn in details regarding temperature distribution, global pressure systems, wind systems etc.
- Understand in details with application, if applicable, relief of the ocean floor
- Learn the details of theories regarding origin of sea waves and ocean currents.

UNIT-I: (Climatology)

1. Atmosphere: Structure and Composition
2. Insolation: Factors influencing the incidence and distribution
3. Temperature: Horizontal and Vertical Distribution
4. Pressure: Influencing factors – High and Low Pressure Areas, Global Pressure Belts

UNIT-II:

5. Winds: Local, Periodic and Planetary
6. Cyclones – Formation, Distribution and Impacts: Tropical and Temperate
7. Humidity: Absolute and Relative
8. Clouds: Types, Formation and Potentials
9. Precipitation: Types, Formation, Distribution

UNIT-III: (Oceanography)

10. Submarine Relief: Continental Shelf, Continental Slope, Abyssal Plain, Ocean Deep and Trenches, Mid-Oceanic ridges
11. Temperature: Horizontal and Vertical Distribution
12. Salinity: Factors and Distribution

UNIT-IV:

13. Waves and Tides: Types and Formation
14. Ocean Currents: Types and Factors Responsible - Currents of Atlantic, Pacific and Indian Oceans
15. Ocean deposits – Types and Distribution
16. Marine Resources and their economic significance

Reference Books:

1. Cole and King (1975): Oceanography for Geographers, E. Arnold, London.
2. Ken Briggs (1985): Physical Geography: Process and System, Holder and Stoughton, London.
3. Rice R.J. (1996): Fundamentals of Geography Addission – Wesley.
4. Sharma, R.C. and Vatal M. (1997): Oceanography for Geographers, Chaitanya Publishing House, Allahabad.

PRACTICAL – II: BASIC STATISTICS AND WEATHER MAPS (1 Credit)

1. Sources of data, classification and Tabulation of data.
2. Central tendencies – Mean, median and mode
3. Measure of Dispersion – mean deviation and standard deviation
4. Correlation – Karl Pearson and spearman.
5. Weather map: weather symbols and interpretation of Indian daily weather maps.

REFERENCES:

1. Aslam Mohmood: Statistical Methods in Geographical Studies. Rajesh Publication, New Delhi.
2. Singh, L.R. (2006): Practical Geography, Sharada Pustak Bhavan.
3. Gregory, S (1963): Statistical Methods and the Geographer, Longmans, London
4. King, L.J.: Statistical Analysis in Geography, Prentice Hall, Englewood Cliffs, New Jersey.
5. Zamir, A. (2002): Statistical Geography: Methods and Applications, Rawat Publications, Jaipur.
6. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London
7. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata.

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B. A/B.Sc. II year, Revised Semester wise Syllabus (w. e. f. 2020-21)
Subject: Geography

Course Outcome

- Write down the details of human geography importance
- Deliberate in details with examples race, religion and language study
- Specify the details of demographic age transition study
- Understand in details with application, if applicable, population composition
- Learn in details with application, if applicable, human settlement study

Semester – III

Paper – III: Human Geography

UNIT-I:

1. Nature and objectives of Human Geography
2. Man and Environment- Physical and Cultural environment

UNIT-II:

3. Human Activities – Primary, Secondary, Tertiary and Quaternary
4. Resources- Classification, Conservation, Utilization and Management, Sustainability

UNIT-III:

5. Human Races- Origin, Classification, Characteristics and Distribution
6. Cultural Realms of the World
7. Population-World population, Growth and Distribution, Demographic Transition.

UNIT-IV:

8. Human Migration- Types, Causes and Consequences of migration, Indian Diaspora.
9. Human Settlements: Forms, Structure, Functions and Patterns, Rural and Urban Settlements.
10. Urbanization- Impacts of Urbanization.

REFERENCES:

1. Leong G.C. and Morgan C.C. (1975): Human and Economic Geography, Oxford University Press, London.
2. Alexander J.W. (1963): Economic Geography, Prentice Hall, New Delhi.
3. Hartshorn T.A. and Alexander (1988): Economic Geography, Prentice Hall, New Delhi.

Additional Text Books:

4. Majid Hussain (1999): Human Geography, Rawat Publications, Jaipur.
5. Ghosh B.N. (1995): Fundamentals of Population Geography, Sterling Publishers, Bangalore.
6. Guha J.L. and Chatoraj P.R. (1978): Economic Geography, World Press, Kolkata.
7. Bhende A.A. & Kanitkar T. (2006): Principles of Population Studies, Himalaya Publishing House, Hyderabad.

Practical – III: Maps and Diagrams

1. One Dimensional – Line Graph, Poly Graph, Bar Graph, Pyramid Graph, Pie Diagram.
2. Two Dimensional – Squares and Rectangles
3. Three Dimensional – Spheres and Blocks, Climatic Diagrams, Climograph, Hythergraph, Windrose.
4. Thematic Maps: Class intervals, Choropleth, Isopleth, Dot Maps, Flow Maps.

Basic Texts

1. Monkhouse F.J. and Wilkinson H.R. (1968): Maps and Diagrams, Methuen, London.
2. Robinson A.H. et al (1995): Elements of Calligraphy, John Wiley, New York.

Additional Texts

3. Singh R.L. and Dutt P.K. (1968): Elements of Practical Geography, Students Friends, Allahabad.
4. Misra R.P. and Ramesh A. (1989): Fundamentals of Cartography, Concept, New Delhi.

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Subject: Geography

Semester – III

SEC - 1: Travel and Tourism

Course outcomes:

- Learn in depth geography of tourism concepts
- Specify in details with examples types of tourism
- Identify in details with application, if applicable, impact of tourism
- Understand the details of tourism in India

UNIT-I:

1. Types of Tourism – Nature Tourism, Cultural Tourism, Medical Tourism, Pilgrimage.
2. Recent Trends of Tourism – International and Regional, Domestic (India), Eco-Tourism, Sustainable Tourism, Meetings, Incentives, Conventions and Exhibitions (MICE).

UNIT-II:

3. Travel Formalities – Travel Agency and Tour Operation Business, Functions.
4. Tourism in India: Tourism Infrastructure; Case Studies of Himalayas, Desert and Coastal and Heritage, National Tourism Policy.

Reading List:

1. Dhar, P.N. (2006) International Tourism: Emerging Challenges and Future Prospects, Kanishka, New Delhi.
2. Hall, M. and Stephen, P. (2006) Geography of Tourism and Recreation – Environment, Place and Space, Routledge, London.
3. Kamra, K. K. and Chand, M. (2007) Basics of Tourism: Theory, Operation and Practise, Kanishka Publishers, Pune.
4. Page, S.J. (2011) Tourism Management: An Introduction, Butterworth Heinemann – USA, Chapter 2.
5. Raj, R. and Nigel, D. (2007) Morpeth Religious Tourism and Pilgrimage Festivals Management: An International Perspective by, CABI, Cambridge, USA.

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Subject: Geography
Semester – III

SEC - 2: Surveying Techniques and Cartography

Course Outcomes:

- Understand in details with application, if applicable, evolution of surveying
- Write down in details of classification and procedures of types of surveying
- Understand in details with application, if applicable, evolution of cartography
- Write down in details with examples map scale
- Understand the details of representation of data

UNIT-I:

1. Surveying: Chain Survey – Triangulation Method, Open & Closed Traverse.
2. Prismatic Compass Survey- Open & Closed Traverse, Intersection Method.
3. Plane Table Survey – Intersection Method.

UNIT-II:

4. Maps: Map Scale – Types and Application, Reading distances on a map.
5. Representation of Data – Symbols, Dots, Choropleth, Isopleth and Flow Diagrams, Interpretation of Thematic Maps.

Basic Texts:

1. Monkhouse F. J. and Wilkinson M.R. (1963): Maps and Diagrams, Methuen, London.
2. Misra R.P. and Ramesh A. (2015): Fundamentals of Cartography, Concept, New Delhi.
3. Robinson A. H. (1995): Elements of Cartography, John Wiley, New York.

Additional Texts:

4. Gopal Singh (1996): Map Work and Practical Geography, Vikas Publishing, New Delhi.
5. Negi B. S. (1998): Practical Geography, Kedarnath and Ramnath, Meerut.

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Subject: Geography
Semester – IV

Course outcome

- Identify the classification and characteristics of concepts of economic geography
- Understand the characteristics of locational theories
- Understand in depth study of primary activities
- Learn the details of study of secondary activities
- Write down in details with examples study of tertiary and quaternary activities

Paper - IV: Economic Geography

UNIT-I:

1. Definition, Approaches and Fundamental Concepts, Patterns of Development.
2. Types of Agriculture: Land use, Cropping Patterns and Production, Location Model of Von Thunen.
3. Livestock- Development and Distribution, Animal Products (Dairying, Meat and Wool).

UNIT-II:

4. Fisheries: Major Fishing areas of the World, Production and Trade
5. Forest: Types and Distribution, Forest Products, Wild Life.
6. Minerals: Metallic (Iron ore, Copper), Non-metallic (Limestone and Mica), Fuel (Coal, Petroleum and Natural Gas).

UNIT-III:

7. Industries: Locational Factors, Weber’s Industrial Location Theory.
8. Major Industries: Iron & Steel, Cotton Textiles and Information and Communication Technology Industry.
9. Industrial Regions of the World- Changing pattern.

UNIT-IV:

10. Transport: Roadways, Railways, Waterways and Airways.
11. Trade: International Trade, Major Imports and Exports, Balance of Trade.
12. WTO and Developing countries.

Basic Texts:

1. Leong G.C. and Morgan C.C. (1975): Human and Economic Geography, Oxford University Press, London.
2. Alexander J.W. (1963): Economic Geography, Prentice Hall, New Delhi.
3. Hartshorn T.A. and Alexander (1988): Economic Geography, Prentice Hall, New Delhi.

Additional Texts:

1. Guha J.L. and Chatoraj P.R. (1978): Economic Geography, World Press, Kolkata.

Practical – IV: Map Projections

1. Constructions and Uses.
2. Conical Projections: One Standard Parallel, Two Standard Parallel.
3. Bonne's Cylindrical Projections: Equal Area, Equal Distant.
4. Zenithal Projections (Polar cases only) – Stereographic, Gnomonic, Zenithal Equidistant and Equal Area.

Basic Texts:

1. Monkhouse F.J. and Wilkinson M.R. (1963): Maps and Diagrams, Methuen, London.
2. Misra R.P. and Ramesh A. (1989): Fundamentals of Cartography, Concept, New Delhi.
3. Robinson A. H. (1995): Elements of Cartography, John Willey, New York.

Additional Texts:

1. Gopal Singh (1996): Map work and Practical Geography, Vikas Publishing, New Delhi.
2. Negi B.S. (1998): Practical Geography, Kedarnath and Ramnath, Meerut.

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Subject: Geography
Semester – IV

SEC - 3: Remote Sensing and GPS

Course Outcomes:

- Understand the characteristics of concept of remote sensing
- Identify in details with examples study of aerial photography
- Specify the details of principals of remote sensing satellites
- Write down the classification and characteristics of interpretation and application of remote sensing
- Deliberate in details with application, if applicable, study of global positing system

UNIT-I:

1. Remote Sensing – Definition, Development, Platforms and Types.
2. Satellite Remote Sensing- Principles, EMR Interaction with Atmosphere and Earth Surface, Satellites (Landsat and IRS) and Sensors.
3. Plane Table Survey – Intersection Method.

UNIT-II:

4. Interpretation and Application of Remote Sensing – Land use/Land cover.
5. Global Positioning System (GPS) – Principles and Uses.

Basic Texts:

1. Compbell J.B., 2007: Introduction to Remote Sensing, Guildford Press.
2. Jensen J.R., 2004: Introductory Digital Image Processing: A Remote Sensing Perspective, Prentice Hall.
3. Joseph, G. 2005: Fundamentals of Remote Sensing, United Press India.
4. Lillesand T.M., Kiefer R.W. and Chipman J.W., 2004: Remote Sensing and Image Interpretation, Wiley. (Wiley Student Edition).

Additional Texts:

5. Singh R. B. and Murai S., 1998: Space-informatics for Sustainable Development, Oxford and IBH pub.
6. Wolf P. R. and Dewitt B.A., 2000: Elements of Photogrammetry: With Applications in GIS, Mc Graw Hill.

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Subject: Geography

Semester – IV

SEC - 4: Fundamentals of GIS

Course Outcomes:

- Understand in details of the evolution of GIS
- Specify in depth GIS data structures
- Write down in depth GIS data analysis
- Deliberate in details with examples Application of GIS in Land use
- Identify the classification and characteristics of Application of GIS in Urban and Forest monitoring

UNIT-I:

1. Geographical Information System (GIS) – Definition and Components.
2. GIS Data Structures- Types (Spatial and Non-spatial), Raster and Vector Data Structure.

UNIT-II:

3. GIS Data Analysis – Input; Geo-referencing; Editing and Output, Overlays
4. Application of GIS in Land Use/Land Cover, Urban Sprawl and Forests Monitoring.

Basic Texts:

1. Bhatta, B. (2010) Analysis of Urban Growth and Sprawl from Remote Sensing, Springer, Berlin Heidelberg. 41.
2. Burrough, P.A., and Mc Donnell, R.A. (2000) Principles of Geographical Information System-Spatial Information System and Geo-statistics, Oxford University Press.
3. Chauniyal, D.D. (2010) Sudur Samvedan evam Bhogolik Suchana Pranali, Sharda Pustak Bhawan, Allahabad.
4. Heywoods, I., Cornelius, S and Carver, S. (2006) An Introduction to Geographical Information System, Prentice Hall.

Additional Texts:

5. Nag, P. (2008) Introduction to GIS, Concept India, New Delhi.
6. Singh, R.B. and Murai, S. (1998) Space Informatics for Sustainable Development, Oxford and IBH, New Delhi.

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B.A. I YEAR MODEL QUESTION PAPER FOR THE AY- 2020-21

SUBJECT: GEOGRAPHY

Semester – I, PAPER: I

Time:

Max. Marks: 60

Note: Paper consists of two parts. Questions from part-A should cover entire syllabus and part-B covering unit wise syllabus.

PART – A

Answer any four of the following. All questions carry equal marks.

4 x 5 = 20 M

1. Describe the concept of isostasy?
2. Write a short note on earthquake shadow zone?
3. Explain the concept of erosion?
4. Bring out the types of deltas?
5. Bring out the works of wind?
6. Write a note on the karst topography?
7. Describe moraines?

PART_B

Answer all the questions. All questions carry equal marks.

4 x 10 = 40 M

8. A) Describe land formation and distribution?
Or B) explain continental drift theory in detail?
9. A) Describe the interior of the earth with a suitable diagram? Or
B) define weathering and describe the physical weathering?
10. A) Bring out the various erosional landforms formed by river action? Or
B) describe the depositional landforms made by wind action?
11. A) write a note on erosional land forms in karst topography? Or
B) what is a glacial? Explains the various types glacials with suitable examples?

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B.A. I YEAR MODEL QUESTION PAPER FOR THE AY- 2020-21 (Skelton)

SUBJECT: GEOGRAPHY

Semester – II, PAPER – II: Climatology & Oceanography

