



**GEOGRAPHY DEPARTMENT**  
**Osmania University College for Women**  
**(Autonomous)**  
**KOTI, HYDERABAD - 500095**



**B.A. GEOGRAPHY**  
**COURSE DURATION: SIX SEMESTERS/THREE YEARS**

**Revised Syllabus for the Academic Year, 2015-2016 and Onwards:**

**B.A. I year- I Semester Paper-1: Elements of Geomorphology (4-Credits: 60Hrs)**

Practical-I: Maps and Relief Features (1-Credit: 45Hrs)

**B.A. I Year - II Semester Paper-II: Elements of Climatology and Oceanography (4-Credits: 60Hrs)**

Practical-II: Graphs and Diagrams (1-Credit: 45Hrs)

**B.A. II year - III Semester Paper-III: Economic Geography (4-Credits: 60Hrs)**

Practical-III: Interpretation of Weather Topographic Maps (1Credit: 45Hrs)

**B.A. II Year - IV Semester Paper-IV: Geography of India (4-Credits: 60Hrs)**

Practical-IV: Introduction to Statistics and Field Study (1-Credit: 45Hrs)

**B.A. III Year - V Semester:**

Paper-V: Geography of Telangana (3-Credits:45Hrs)

Practical-V: Surveying (1-Credit: 45Hrs)

**B.A. III Year - V Semester:**

Paper -VI (a):Population Geography (Elective Paper)(3-Credits:45Hrs)

Paper-VI (b): Environmental Geography (Elective Paper) (3-Credits: 45Hrs)

Practical-VI: Projections (1-Credit: 45Hrs)

**B.A. III Year - VI Semester:**

Paper- VII: Introduction to Geo-informatics (Compulsory Paper) (3-Credits: 45Hrs)

Practical-VII: GIS & Remote Sensing (1-Credit: 45Hrs)

**B.A. III Year - VI Semester:**

Paper- VIII (a): Settlement Geography (Elective Paper) (3-Credits: 45Hrs)

Paper- VIII (b): Urban Geography (Elective Paper) (3-Credits: 45Hrs)

Practical-VIII: Research Methodology (1-Credit: 45Hrs)



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B. A. I Year - I Semester

Paper-I: Elements of Geomorphology

**Section - A**

1. Interior of the Earth
2. Earth Movements - Diastrophism

**Section - B**

3. Concept of Isostasy
4. Wegener's Continental Drift Theory

**Section - C**

1. Types of Rocks and their characteristics.
2. Mountains, Plateaus, Plains - Types and formation.

**Section - D**

3. Volcanoes, Earthquakes
4. Weathering, Erosion.

**Section - E**

5. Landforms - Basis of classification.
6. Fluvial, Glacial, Karst (Erosion & Depositional), Aeolian Landforms.

**PRACTICAL - I: Maps and Relief Features**

1. Introduction to Maps and their types.
2. Scales: Types, Conversion, Construction.
3. Methods of Representing Relief.
4. Contours and Profile drawing.
5. Simple, Composite and Super-Imposed Profiles.

**BOOKS:**

1. Modern Physical Geography - Strahler A.N. and Strahler A. N., Wiley, 1983
2. Physical Geography - P. Lake, University Press; Third Edition edition, 1955
3. Physical Geography - Savinder Singh, Prayag Pustak Bhawan, 2013
4. Physical Geography - Made Simple Series, 2003
5. Fundamentals of Physical Geography-Majid Hussain, Rawat Publications, 2010
6. Elements of Practical Geography-R.L Singh & P.B. Singh, Efficient Offset Printers, 2001
7. Practical Geography-Zulfequar Ahmedkhan, Concept Publishing Company, 1998



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B. A. I Year - II Semester

Paper- II: Elements of Climatology & Oceanography

**Section - A**

1. Structure and Composition of the Atmosphere- Troposphere, Stratosphere and Ionosphere.
2. Factors of difference of air temperature - Horizontal and Vertical distribution of temperature.

**Section - B**

3. Atmospheric pressure variations: Equatorial belt, Tropical belt, Temperate belt and Frigid belt.
4. Planetary winds: Trade winds, Westerlies and Polar Easterlies.

**Section - C**

5. Air masses, Fronts, Types of rainfall-Orographic, Convectional and Frontal rainfall.
6. Cyclones: Tropical and Temperate Cyclones: Anti-Cyclones.
7. Basis of Climatic Classification: Koppen Climatic Classification

**Section - D**

8. Distribution of Temperature & Salinity in Oceans.
9. Submarine relief: Continental shelf, Continental Slope, Deep sea plain, Ocean trenches.

**Section - E**

10. Tides-Spring and Neap tides; Currents- Causes and distribution in Atlantic & Pacific Ocean.
11. Oceanic Resources and their economic Significance.

**PRACTICAL - II : Graphs and Diagrams**

1. Climograph, Hythergraph, Square, Pie, Rectangular diagrams, Line graph, Multiple Line graph, Compound Bar graph, Combined Line & Bar graph.
2. Wind Rose, Compound Wind Rose.

**BOOKS:**

1. General climatology, Critchfield, J.H, Prentice Hall, India, New Delhi, 1993.
2. Physical Geography - P. Lake, University Press; Third Edition edition, 1955
3. Oceanography for Geographers- Sharma, R.C. Vatal M.
4. Physical Geography - Savinder Singh, Prayag Pustak Bhawan, 2013
5. General Climatology-D.S. Lal, Sharada Pustak Bhavan, 2011
6. Elements of Practical Geography-R.L Singh & P.B. Singh, Efficient Offset Printers, 2001
7. Practical Geography-Zulfequar Ahmedkhan, Concept Publishing Company, 1998



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**B.A. II Year - III Semester**  
**Paper-III: Economic Geography**

**Section - A**

1. Meaning, Scope and Objectives of Economic Geography.
2. Classification of Resources- Biotic and abiotic resources, conservation and management of resources.

**Section - B**

3. Agriculture-Factors affecting agriculture: Food crops: Rice, Wheat: Cash crops: Cotton, Sugarcane: Plantation crops: Tea and Coffee.
4. Forest Resources-Types and distribution in the world.
5. Fisheries - Major fishing grounds of the world.

**Section - C**

6. Mineral resources - Distribution and Production of Iron, Manganese, Copper, Tin.
7. Power resources - Distribution and Production of Coal and Petroleum.

**Section - D**

8. Iron & Steel Industry - Location and World distribution.
9. Cotton Textile Industry- Location and World distribution.

**Section - E**

10. Weber's Industrial Location Theory.
11. Major Industrial Regions of the world - Europe (Ruhr Region), North America (North East Coasts) and Asia (China).

**PRACTICAL - III : Interpretation of Topographical and Weather Maps**

1. Thematic Mapping - Dot Map, Choropleth, Isopleth, Flow Maps.
2. Conventional Signs of Toposheets.
3. Interpretation of Weather Maps.
4. Interpretational of Toposheet.

**BOOKS:**

1. Economic Geography - Alexander, Prentice Hall; 3 edition (1987)
2. New Approach to Economic Geography - Guha & Chattoraj, The World press, 1969
3. Economic Geography- Jones & Darkenwald, Surjeet Publications (2005)
4. Economic Geography- H.M. Saxena, Rawat Publication (2013)
5. Economic Geography- B.W.Hodder, Roger Lee, Rawat Publications (2008)
6. Economic and Commercial Geography, C.B. Mamoria, Shivalal Agarwal &Company (2009)
7. Elements of Practical Geography-R.L Singh & P.B. Singh, Efficient Offset Printers (2001)
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B.A. II Year - IV Semester

Paper-IV: Geography of India

**Section - A**

1. Location and relief - Major Physiographic Regions.
2. Drainage Pattern - Northern Rivers and Peninsular Rivers.

**Section - B**

3. Climate: Seasonal and Regional variations: Mechanism of Indian Monsoon.
4. Natural Vegetation: Major forest types of India and their distribution.

**Section - C**

5. Agriculture: Salient features of Indian agriculture - Green Revolution in Indian Agriculture.
6. Distribution and Production of Food crops - Rice and Wheat; Cash Crops - Cotton and Sugarcane; Plantation crops- Tea and Coffee.

**Section - D**

7. Mineral resources: Distribution and Production of Iron ore, Coal, Manganese, Oil & Natural Gas.
8. Location and distribution of Iron & Steel Industry and Cotton Textile Industry.

**Section - E**

9. Population - Distribution pattern, growth trends and density variation; population problems.
10. Urban development in India- Regional variations.

**PRACTICAL - IV: Introduction to Statistics and Field Study**

1. Frequency Distribution.
2. Measures of Central Tendency-Mean, Median & Mode
3. Measures of Dispersion-Mean Deviation and Standard Deviation.
4. Lorenze Curve.
5. Field Study Research and Report: Pilgrim and Tourist Spot Survey.

**BOOKS:**

1. India: A Comprehensive Geography, D.R. Khuller, Kalyani Publishers (2014)
2. Economic and Commercial Geography, C.B. Mamoria & Company (2009)
3. India: A Regional interpretation- Deshpande, C.D.
4. India Year Book 2015.
5. Geography of India-Coutinho & Sharma, Vikas Pub; 2 Rev Sub edition (1986)
6. Indian Geography-Ravi S. Singh, Rawat Publications (2009)
7. Elements of Practical Geography-R.L Singh & P.B. Singh, Efficient Offset Printers (2001)
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**B.A. III Year - V Semester**  
**Paper- V: Geography of Telangana**

**Section - A**

1. Physical aspects- Location and Physiographic regions of Telangana.
2. Major rivers of Telangana; Soils and their distribution.

**Section - B**

3. Climate -Seasonal distribution and variations.
4. Natural Vegetation - Types and distribution of forests.

**Section - C**

5. Agriculture - Distribution and production of Rice, Cotton, Maize, Jowar and Sugarcane.
6. Minerals - Distribution and production of Iron ore, Coal and Limestone.

**Section - D**

7. Major power and irrigation projects in Telangana.
8. Tank and Well Irrigation in Telangana

**Section - E**

9. Population - Pattern of distribution, Structure, Density and growth variations.
10. Urbanisation - Distribution and Growth trends in Telangana.

**PRACTICAL - V: Projections**

1. Projection: Types and Classification
2. Cylindrical Projections: (a) Cylindrical Equal Area, (b) Cylindrical Equidistant.
3. Conical Projections.
  - a. One Standard Parallel
  - b. Two Standard Parallel
  - c. Bonne's Projection
  - d. Polyconic Projection.
4. Zenithal Projections.
  - a. Zenithal Equal Area
  - b. Sterographic
  - c. Gnomonic

**BOOKS:**

1. Report of Directorate of Economics & Statistics, 2014.
2. T.S.. Statistics - Data News Features.
3. Elements of Practical Geography-R.L Singh & P.B. Singh, Efficient Offset Printers (2001)
4. Practical Geography-Zulfequar Ahmedkhan, Concept Publishing Company (1998)
5. Practical Geography-Dr.L.R.Singh
6. Regional Geography of Andhra Pradesh-Dr. T. Anuradha



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**B.A. III Year - V Semester**

**Paper- VI: Population Geography (Elective Paper)**

**Section - A**

1. Nature, Scope and Content of Population Geography.
2. Concept of Under Population, Optimum Population and Over Population

**Section - B**

3. World Distribution of Population- Determinants of World Regional patterns.
4. Density variations and growth trends of World Population.

**Section - C**

5. Migration: Determinants and Consequences of Migration; International Migration.
6. Internal Migration: Rural to Rural, Rural to Urban, Urban to Urban and Urban to Rural Migration.

**Section - D**

7. Theory of Demographic transition on Population.
8. Malthusian's theory of Population growth.

**Section - E**

9. Human Development Index and its components.
10. Population problems of the World.

**PRACTICAL -VI: Surveying**

1. Chain Survey- Open & Closed Traverse.
2. Plane Table Survey- Open & Closed Traverse and Intersection method.
3. Prismatic Compass Survey - Open & Closed Traverse.

**BOOKS:**

1. Population Geography-Clark. J., Oxford, 1965
2. Population Geography-Peters, G.L., Kendall/Hunt Publishing Company, 2008
3. Geography of Population-Trewartha, G.T., Wiley, 1969
4. Population Geography-Chandana, Kalyani Publishers, 2009
5. Human Geography-Goh Cheng Leong, Oxford University Press, 1983
6. Elements of Practical Geography-R.L Singh & P.B. Singh, Efficient Offset Printers (2001)
7. Practical Geography-Zulfequar Ahmedkhan, Concept Publishing Company (1998)



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**B.A. III Year - V Semester**

**Paper- VI: Environmental Geography (Elective Paper)**

**Section - A**

1. Meaning and Scope of Environmental Geography.
2. Components of Environment: Ecosystem, Biomes.

**Section - B**

3. Pollution Types-Causes and Air-Water Pollution.
4. Exploitation of natural resources and environmental hazards.

**Section - C**

5. Distribution and utilization of Water Resources - Their economic and environmental significance and conservation.
6. Energy Resources - Global Distribution and Consumption pattern - Environmental implications and conservation

**Section - D**

7. Deforestation; Conservation of Bio- diversity
8. Global warming, environment and sustainable development.

**Section - E**

9. Population explosion; food security
10. Globalisation and its impact on environment.

**PRACTICAL - VI: Surveying**

1. Chain Survey- Open & Closed Traverse.
2. Plane Table Survey- Open & Closed Traverse and Intersection method.
3. Prismatic Compass Survey - Open & Closed Traverse.

**BOOKS:**

1. Environmental Geography - Savinder Singh, Prayag Pustak Bhawan, 1991
2. Global Environmental Outlook - U.N.E.P.
3. World Resources (Report) - World Resources Institute
4. The Citizen's Fifth Report- Agarwal, A and Sen.S
5. Certificate Human Geography- Goh cheng Leong, Oxford University Press, 1983
6. Elements of Practical Geography-R.L Singh & P.B. Singh, Efficient Offset Printers (2001)
7. Practical Geography-Zulfequar Ahmedkhan, Concept Publishing Company (1998)



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**B.A. III Year - VI Semester**

**Paper- VII: Introduction to Geoinformatics (Compulsory Paper)**

**Section - A**

1. Basic Component of G.I.S & G.I.S. Functions.
2. Data Base Structures - Spatial and Attribute Data.

**Section - B**

3. Input of Data - Devices, Mechanisms and Data Errors.
4. G.I.S. Applications.

**Section - C**

5. Energy Flow from source to Sensor - Energy interaction.
6. Types of Satellites - Characteristics of I.R.S. Satellites.
7. Application of Remote Sensing Data.

**Section - D**

8. Photographic Remote Sensing - Types of Aerial Photographs.
9. Principles of Photo - interpretation.

**Section - E**

10. Introduction to GPS.
11. Uses of G.P.S.

**PRACTICAL - VII: GIS & Remote Sensing**

1. Principles of Aerial Photography and Remote Sensing.
2. Visual interpretation of Land use types from Satellite imageries.
3. Georeferencing
4. Digitization, Corrections of Errors
5. Entering Non-Spatial Data.

**BOOKS:**

1. The GIS Book-George B. Korte.P.E , Thompson Asia Pte Ltd (2004)
2. Remote Sensing and GIS-Basudeb Bhatta, Oxford University Press (2011)
3. GIS Basics-Shahab Fazal, New Age International Publications (2008)
4. Remote Sensing and Geographical Information System-A.M. Chandra, S.K. Ghosh.
5. Remote Sensing and GIS, A. M. Chandra, S. K. Ghosh, Narosa Publications, (2015)
6. Remote Sensing Principles & Applications-Dr. B.C. Panda, Viva Books Pvt Ltd (2006)



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B.A. III Year - VI Semester

Paper- VIII (a): Settlement Geography (Elective Paper)

**Section - A**

1. Scope and Content of Settlement Geography
2. Origin of Settlements - Factors responsible for evolution of settlements.

**Section - B**

3. Types of Rural settlements - Nucleated and Dispersed settlements.
4. Rural settlement patterns - Linear pattern, Rectangular pattern, Circular pattern and Star shaped pattern.

**Section - C**

5. Urban Settlements - Towns, Cities, Metropolis, Megalopolis.
6. City and its Region.

**Section - D**

7. Models of City - Size Distribution - Rank - Size Rule, Primate City concept
8. Christaller's Central Place Theory.

**Section - E**

9. Salient features of Human settlements in India.
10. Rural - Urban continuum, Rural -Urban fringe.

**PRACTICAL - VIII: Research Methodology**

1. Types of Data.
2. Methods of Data Collection.
3. Sampling- Methods of Sampling.
4. Location Quotient Method
5. Analysis of Data- Correlation.
6. Field Study Research and Report (Any One)
  - a. Socio-Economic Survey,
  - b. Transit Survey.

**BOOKS:**

1. The Study of Urban Geography -Carter, H., Wiley, 1976
2. Settlement Geography- Ghosh., Sangam Books Limited, 1998
3. Patterns of Settlements-Money D.C., Evans Bros., 1972
4. Certificate Human Geography- Goh cheng Leong, Oxford University Press, 1983
5. Practical Geography-Dr.L.R.Singh
6. Elements of Practical Geography-R.L Singh & P.B. Singh, Efficient Offset Printers (2001)
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B.A. III Year - VI Semester

Paper- VIII (b): Urban Geography (Elective Paper)

**Section - A**

1. Nature and Scope of Urban Geography.
2. Recent trends in Urban Geography.

**Section - B**

3. Origin and growth of urban settlements.
4. Functional classification of urban settlements.

**Section - C**

5. Urban Economic base: Basic and non-basic functions.
6. Theories of Urban Morphology: Concentric zone, Sector and Multiple - Nuclei theories.

**Section - D**

7. Urbanisation - Processes and Patterns in the World.
8. Urban growth trends - Developed and Developing countries - Comparison

**Section - E**

9. Hyderabad Metropolitan City - Landuse pattern.
10. Urban Problems-Housing, Slums, Crimes.

**PRACTICAL - VIII: Research Methodology**

1. Sampling- Methods of Sampling.
2. Location Quotient Method
3. Analysis of Data- Correlation.
4. Field Study Research and Report (Any One)
  - a. Socio-Economic Survey,
  - b. Transit Survey.

**BOOKS:**

1. The Study of Urban Geography -Carter, H., Wiley, 1976.
2. Readings in Urban Geography, Mayor,H.M. Kohn C.F. Uni. of Chicago Press, 1955
3. Urbanisation in India- Rao,V.L.S.P., Concept Publishing Co. New Delhi, 1983
4. Practical Geography-Dr.L.R.Singh
5. Elements of Practical Geography-R.L Singh & P.B. Singh, Efficient Offset Printers (2001)
6. Practical Geography-Zulfequar Ahmedkhan, Concept Publishing Company (1998)