



ADEYEMI COLLEGE OF EDUCATION ONDO, ONDO STATE

DEPARTMENT OF GEOGRAPHY LIST OF DEGREE COURSES/ DESCRIPTION FOR HARMATTAN SEMESTER

DEGREE I

1. SSC 101: Man and His Social Environment – 3 Units Compulsory

- Understanding Sociology as a discipline
- Understanding Anthropology as a discipline
- The Environment
- The human Culture
- Social interaction and human society
- Social institutions
- Socialization and internalization
- Deviance and crime
- Gender issues in Nigeria

RECOMMENDED TEXTS

2. SSC 103: Man-Environment Relation – 3 Units Compulsory

- The influence of the environment on man's economic, social and cultural pattern
- Human ecology and Man's utilization of environmental resources
- Environmental deterioration resulting from the impact of man
- The effects of population growth, economic and social policies, political activities and modern technology on environmental deterioration

RECOMMENDED TEXTS

1. Readings in Man-Environment Relations 2007: Lagos: Nimsfield Nigeria Ltd
2. Fundamental of Man- Environment Relations 2013. Akure: Intanitina Gim Publishers Ltd

3. SSC 107: Man's Physical Environment – 3 Units Compulsory

- The concept of the earth's surface as the home of man.
- Atmosphere and atmospheric processes of sculpturing the earth's surface.
- The lithosphere and the biological productivity of the earth's surface.
- The earth's surface in natural history.
- The current environmental concern.

RECOMMENDED TEXTS

Joseph Holden (2012). An introduction to Physical Geography and the Environment.
Pearson Education Ltd

DEGREE II

1. GPY 201: Introduction to Social Geography – 3 Units Compulsory

- The scope of Social Geography. Principles and patterns of world population.
- Population growth and components.
- Concepts in social geography: Rural systems.
- Urban agglomeration in social systems.
- Processes and patterns in social geography.
- Migration processes and consequences.
- Principles of political systems.
- Nigerian population structure, distribution pattern and their implications.

RECOMMENDED TEXTS

Charles Assi Atangana. (2013). Textbooks of World Social Geography. Random Publications, New Delhi

2. GPY 203: Introduction to Climatology – 2 Units Compulsory

- The nature of the atmosphere
- Elements of Climate
- Methods and problems of weather observation
- Processes leading to precipitation
- Patterns of rainfall distribution
- Tropical weather forecasting
- World climate patterns
- Physiological climatology

RECOMMENDED TEXTS

1. Atmosphere Weather & Climate by Roger G. Barry.
2. Climate change by J.O. Ayoade
3. Robert, M. May. 2008. The Britannica Guide to Climate change: An Unbiased Guide to the Key Issue of Our Age
4. Bimal Dhawan. 2014. An introduction to climatology. Venus Publishers, New Delhi
5. Ayoade, J. O. 2008. Techniques in climatology. Stirling-Horden Publishers Ltd. Ibadan

3. GPY 205: Cartography and Map Analysis – 3 Units Compulsory

- Maps and their limitations.
- Projection and their properties (excluding construction).
- Qualities of projections for Nigerian Maps.
- Base maps for different purposes. Choice of base maps.
- Statistical representation.
- Sources of statistical data for geographical studies.
- Cartographic instruments. Analysis of physical and human features on topographical maps.
- Delimitation and Examination of area and linear properties of drainage basins.
- Slope analysis.
- Geological mapping.
- Analysis of Geological maps; Analysis of Climatological maps.
- Settlement analysis.
- Analysis of Socio-economic activities.
- Transportation patterns.

RECOMMENDED TEXTS

1. Cartography: Thematic Map Design
2. Thematic Cartography and Geo-visualization by Terry A. Slocum

DEGREE III

1. GPY 301: Geography of the Tropics – 3 Units Compulsory

- Comparative study of the major regions with particular reference to tropical America, Tropical Africa and the Indo-pacific region.
- Physical, social, economic and political processes unique to the Tropics.
- Problems of development in the tropics.
- The factors of colonial antecedence, technological backwardness, the tropical environment and the concepts of underdevelopment.
- Problems and prospects of the tropical countries in a changing world.
- Tropical rainforest and its anthropic derivatives.
- Tropical savanna vegetation: the dynamic status of savanna vegetation, the forest/savanna boundary.
- Inter-regional and inter-national trade and the importance of the heartland paradigm to the understanding of the problems and prospects of the underdeveloped countries.

RECOMMENDED TEXTS

2. GPY 307: Biogeography – 3 Units Compulsory

- Ecosystems concepts and relevance in plant distribution.
- Evolutionary, paleographic and ecological factors of plants distribution.
- Basic Principles of Ecology.
- Primary biological productivity.
- Vegetation analysis.
- Environmental degradation and mitigation strategies.
- Biomes of the world.
- Savanna as alternative vegetation to forest in the tropics.
- Quantitative techniques in resource evaluation.
- Biogeographical basis for land evaluation.

RECOMMENDED TEXTS

1. Elements of Biogeography by J.O. Adetunberu
2. Sharma J.P. (2017): Environmental Studies (for undergraduate classes) University Science Press
3. Biogeography – An Ecological and Evolutionary Approach by Bany Cox & Peter More

3. GPY 309: Field and Laboratory Techniques in Geography – 3 Units Compulsory

- Formulating the objectives of fieldwork.
- Types of field surveys. Planning fieldwork.
- Preparation of Questionnaires, Sampling Theory.
- Methods of field survey in various branches of geography.
- Analysis of Questionnaires.
- Laboratory analysis of water quality and soil properties.
- Presentation of survey results.

RECOMMENDED TEXTS

A Handbook on Field Report and Project Writing in Geography by T. A. Omolade

4. GPY 311: Geomorphological Processes – 3 Units Compulsory

- Concepts of landform development: Davis, Patrick, King Thomas, and Crickmay.
- Peneplanation, Panplanation, Pediplanation, Etchplanation
- Effect of structure of relief.
- Relief on Igneous, Sedimentary and metamorphic rocks.
- Tors, Castle Koppies. Karst landform.
- Lateralization.
- Mass Wasting.
- Slope development.
- Geomorphic peculiarities of landform in humid tropics.

RECOMMENDED TEXTS

1. Gokhale, N.W (2010). Geological features and Mysteries of the Planet Earth. CBS Publishers, India
2. Tillery, B.W. (2005). Physical Science. Kent A Peterson Publishers.
3. Geomorphology by B.W. Sparts

DEGREE IV

1. GPY 303: Elements of Remote Sensing – 3 Units Compulsory

- Definition of Remote Sensing
- Historical Development of Remote Sensing
- Energy flow in the atmosphere
- Effect of atmosphere on object reflectivity
- Types of Remote Sensing Data
- Characteristics of air photos.
- Scale and measurements from air photos.
- Characteristic of photographic images.
- Principles of convergence of evidence in photo interpretation.
- Relief displacement and measurement of slopes and heights in air photos.
- Interpretation of physical and human features on imageries

RECOMMENDED TEXTS

1. Remote Sensing and GIS Accuracy Assessment by Lunena & Lyon
2. Shahab Fazal and Atiqur Rahman. (2010). GIS: Terminology New Age Publishers, New Delhi
3. Nina Uluocha. (2007). Elements of GIS. Sam Iroanusi Publications, Lagos.
4. An Introduction to Aerial Photo-Interpretation in the African Continent by Olusegun Areola
5. Remote Sensing and image Interpretation

2. GPY 305: Philosophy and Methodology in Geography – 3 Units Compulsory

- Science and Scientific methodology.
- Geography as an empirical science.
- Geography and the cognate disciplines.
- Philosophy, methodology and explanation of Geography.
- The development of geographic thought from the classical period.
- The early 21st century geography.
- The quantitative revolution in geography.
- Development of geography in Nigeria.
- The role of theories, law, and models in explanation in Geography.
- Language for geographic explanation.
- Model for description and explanation in Geography.
- The conceptual approach in geography.

RECOMMENDED TEXTS

1. Brouthironte, K.B. (1960) Scientific explanation: Coper Touch Books, New York
2. Hartshorne, R (1959) Perspectives on the Nature of Geography, Syraceaims Press, New York
3. Harrey, D. (1969) Explanation in Geography, Edward Horn old, London

3. GPY 405: Environmental Impact Analysis – 3 Units Compulsory

- Environment and sustainable development.
- Intuitional framework for environmental management
- Principles and Basic Concepts of EIA
- Methods of executing EIA
- Preparation of EIA Report
- Introduction to environmental auditing.

RECOMMENDED TEXTS

1. Ayoade, J. O. 2015. Introduction to Environmental Planning and Management. Agbo Areo Publishers, Ibadan
2. Environmental Monitoring, Assessment and Management: The Long Term Research and Development
3. Sustainable Development by Dokun Oyeshola

4. GPY 407: Regional Geography of West Africa with special Reference to Nigeria – 3 Units Compulsory

- The physical environment of West Africa and its relationship with patterns of human activities.
- The geographical basis of ECOWAS.
- Areal differentiation based on systematic geography.
- The geographical regions of Nigeria.
- The states and the river basins as the bases for national planning and development.

RECOMMENDED TEXTS

Study Map West African by Afolabi, Ojo

DEPARTMENT OF GEOGRAPHY
LIST OF DEGREE COURSES/ DESCRIPTION FOR RAIN SEMESTER
DEGREE I

1. SSC 104: The Governing of Man – 3 Units Compulsory

- The concept of politics and Political Science
- Introduction to organization and operation of modern government
- Forms and types of government
- The principles of modern government
- Rule of law
- Theory of separation of powers
- Making, execution and control of public policy
- Citizen and the state- duties obligation and responsibilities

RECOMMENDED TEXTS

The Governing of Man- An Introduction: Patrick Ade Prints (Nig.) Ltd 2016

2. SSC 108: Introductory Map Reading – 2 Units Compulsory

- Drawing Instruments.
- The Map and its essentials. Scales, Conventional signs and symbols.
- Measurement of distances and areas. Reduction and enlargement of maps.
- Elements of the physical and human features on topographical maps.
- Relationships between physical and human elements on maps.

RECOMMENDED TEXTS

1. Map Work by Bisi Taiwo
2. Statistical Mapping and the Presentation of Statistic by G.C. Dickson
3. Map Reading & Interpretation by Bagbe Olusoji

3. SSC 110: Elementary Cartography and Statistical Representation – 2 Units Compulsory

- Use of point symbols; construction of graphical diagram such as simple linear graphs, compound line graph, flow and linkage diagrams, pie charts, divided rectangles, star diagrams, etc.
- Use and construction of chlorochromatic maps, chorographic compage maps, isopleths and chloropleth maps.
- Different types of shading stipple and colour for illustration spatial data.
- Application of statistical representation of climatic, geomorphological, economic, population, and biogeographical data.
- Sources of statistics in Nigeria and their reliability.

RECOMMENDED TEXTS

1. Thematic Cartography and Geo-visualization by Terry A. Slocum
2. Statistical Mapping and the Presentation of Statistic by G.C. Dickson
3. Cartography: Thematic Map Design

DEGREE II

1. GPY 202: Introduction to Economic Geography – 3 Units Compulsory

- Patterns of world economic development.
- Types of economic systems.
- Component of an economy.
- Agricultural systems and patterns.
- Agriculture in the world economy.
- Distribution of fishing and lumbering activities.
- Mining and manufacturing industries.
- Fuel in the world economy.
- Transportation, and Communication, Commerce and International Trade.

RECOMMENDED TEXTS

1. Norman Pounds (1981). Success in Economic Geography. John Murray Publishers, London
2. Debashish Banerjee. (2014). A Modern Book on Economic Geography. Random Publishers, New Delhi
3. Phani Deka & Abani Bhagabati (2009). Geography: Economic and Regional. New Age International Publishers.

2. GPY 204: Introduction to Geomorphology – 3 Units Compulsory

- Definition and scope of geomorphology.
- Methods in geomorphology.
- Geomorphology as a scientific discipline.
- Rocks and primary landforms.
- Rocks, their composition, structure and mode of formation.
- Process in geomorphology: Endogenetic processes – Tectonic forces and primary, landform; Exogenetic/Denudational processes weathering Mass wasting, fluvial processes – flow velocity, sediment transport. Open Channel flow; Drainage pattern; Stream Order; Stream Capture. Aeolian process and landforms; Glaciation and landforms.

RECOMMENDED TEXTS

1. Gokhale, N.W (2010). Geological features and Mysteries of the Planet Earth. CBS Publishers, India
2. Tillery, B.W. (2005). Physical Science. Kent A Peterson Publishers.
3. Geomorphology by B.W. Sparts

3. GPY 206: Principles of GIS – 3 Units Compulsory

- Concepts and principles of Growth of information science, its applications in various fields and relations to Remote Sensing
- Principles of GIS and varieties of GIS- Analogue and automated GIS
- Digitizing and Data Scanning
- Data composition in GIS settings: raster and vector models
- Importing data into GIS models
- Hierarchical
- Network and Relational Database Systems
- Data layering.

RECOMMENDED TEXTS

1. Philip Emeral.(2013). Encyclopaedia of Human Geography. Random Publishers

GIS/Map

2. Shahab Fazal and Atiqur Rahman. (2010). GIS: Terminology New Age Publishers, New Delhi

3. Nina Uluocha. (2007). Elements of GIS. Sam Iroanusi Publications, Lagos.

4. Sujit Choudhury, Deepankar Chakrabarti and Suchandra Choudhury. (2013). An Introduction to Geographic Information Technology. I.K. International Publishing House Pvt. Ltd, Delhi

5. Remote Sensing and image Interpretation

4. GPY 208: Introduction to Biogeography – 3 Units Compulsory

- Definition of biogeography.
- Scope and purpose of biogeography.
- Historical development in biogeography.
- Ecosystem – concepts.
- Principles of ecology.
- Classification of plants and animals.
- Factors of plant distribution.
- Dynamic of plant communities – Plant succession.

RECOMMENDED TEXTS

1. Elements of Biogeography by J.O. Adetunberu

2. Sharma J.P. (2017): Environmental Studies (for undergraduate classes) University Science Press

3. Biogeography – An Ecological and Evolutionary Approach by Bany Cox & Peter More

DEGREE III

1. GPY 304: Elements of Land Surveying – 2 Units Compulsory

- Principles of surveying.
- Measurement of distance and direction.
- Chain surveying, compass survey, plane tabling.
- Area measurements.
- Correction of errors of closure
- Height and slope measurements.
- Drafting of uncountoured and countoured maps.
- Rectangular coordinates and triangulation.
- Traversing with theodolites leveling.

RECOMMENDED TEXTS

1. Punnia, B. C. 2016. Surveying Volume I, 17th Edition. Laxmi Publications Ltd.
2. Punnia, B. C. 2016. Surveying Volume II, 16th Edition. Laxmi Publications Ltd.
3. Punnia, B. C. 2016. Surveying Volume III, 15th Edition. Laxmi Publications Ltd.
4. Agor, R. (2015). Textbook of Surveying and Leveling. 12th Edition. Khanna Publishers, New Delhi

2. GPY 306: Spatial Organization and Planning – 3 Units Compulsory

- The concepts of location, distribution and occupation of space.
- Models of locational structure.
- Spatial interaction.
- Distance decay function.
- Location, evolution, patterns and changes of routes.
- Models of settlement evolution, distribution and hierarchies.
- Theories of agricultural location.
- Theories of industrial location.
- Location of administrative units and capitals.

RECOMMENDED TEXTS

1. Spatial Organization of Society by Morrill, Richard: 2nd Edition. Amazon. Com
2. Spatial Planning, Urban Form and sustainable Transport by Katie Williams
3. Abler, R, Adams, J.S. and Gould P.R. (1992): Spatial Organization: The Geographers view of the World. Profile-Hall Englewood, Cliff

3. GPY 308: Population Geography – 3 Units Compulsory

- Population data as vital statistics.
- Procedures and problems of population data collection including censuses.
- Historical outline of world population growth.
- Patterns of population distribution and trends of change.
- Theories of mortality, fertility and migration.

RECOMMENDED TEXTS

1. Population Geography for Undergraduates by Omolade, T.A. ; Ibadan: Alafas Prints
2. Population Geography for Africa by Onokerhoranye, A. : Benin University of Benin Press
3. Adrian Bailey (2015): Making Population Geography Amazon com
4. Sachin Verma. (2014). Demography and Population Problem. Venus Publishers. New Delhi
5. Nitrin Johri. (2014). Population Statistics. Venus Publishers.

4. GPY 314: Soil Geography – 3 Units Compulsory

- Scope and nature of soil geography.
- Physical and chemical properties of soils.
- Soil formation. Soil profile. Soil classification.
- Soil of Western Nigeria.
- Progress in soil mapping in Nigeria.
- Soil determination.
- Accelerated soil erosion.
- Soil under shifting cultivation and tree crops.
- Methods of soil survey.
- Laboratory determination of soil properties – particle size distribution, build density, total – porosity, pH, organic matter content, available phosphorus.

RECOMMENDED TEXTS

1. World Soils by E.M.Bridges
2. Shivanand Tolanur. (2018). Fundamentals of Soil Science. 2nd Edition. CBS Publishers
3. Garrett Nagle (2000). Advanced Geography. Oxford University Press, London

DEGREE IV

1. GPY 302: Regional Geography of North America or Northwest Europe – 3 Units Compulsory

In any of the regions selected for study, the course will include:

- The Geographical influence the selected area due to its internal physical diversity and changing evolution of the environment.
- Regions, regionalism and their relevance to: Population diversity and its changing distribution.
- Urbanization and the nodal regions.
- Segregation and the spatial arrangement of the residential area interconnectedness of various regions.

RECOMMENDED TEXTS

1. Geography of North America by Hardwick, Shelley, Hottgrieve
2. Geography of North America 2nd Edition by Brett McGillivray
3. The Physical Geography of North America by Anthony R. Qrme

2. GPY 310: Physical and Dynamic Climatology: 3 Units Compulsory

- The solar radiation as source of atmospheric energy.
- Advection.
- Heat and moisture exchanges in the surface layer or atmosphere.
- Stability, convection and Turbulence.
- Thunderstorms.
- Air mass analysis fronts, air masses and jet streams.
- Depressions and anticyclones.
- The general circulation of the atmosphere.

RECOMMENDED TEXTS

1. Oyediran, O; Kayode, O & Feyi, O. (2001) Fundamentals of Physical and Dynamic Climatology. SEDEC Publishers, Lagos
2. Climate change by J.O. Ayoade
3. Robert, M. May. 2008. The Britannica Guide to Climate change: An Unbiased Guide to the Key Issue of Our Age
4. Bimal Dhawan. 2014. An introduction to climatology. Venus Publishers, New Delhi
5. Ayoade, J. O. 2008. Techniques in climatology. Stirling-Horden Publishers Ltd. Ibadan

3. GPY 312: Industrial Geography – 3 Units Compulsory

- Industrial plant location problem.
- Factors of industrial location.
- Trends in industrial location theory.
- Industrial location and time dimension: plant relocation, industrial inertia and evolution of industrial patterns.
- Industrial location and regional development.
- Environmental impact of industrial patterns.
- Industrial location and regional development.
- Environmental impact of industrial location.
- Urban and regional industrial planning with special reference in Nigeria.

RECOMMENDED TEXTS

Hagget, P., Cliff, A and Frey, A (1977): *Locational Analysis in Human Geography*: Edward Arnold, London

4. GPY 424: Ecology of Natural Resources – 3 Units Compulsory

- Nature of Resources.
- Man and the Natural Environment.
- Sustainability in the use of resources.
- Policies, laws and regulations on natural resources.
- Instruments of environmental protection.
- Conflicts in Resource Conservation.
- Economic, Cultural, Politics and social considerations in resource conservation and management.
- Watershed management and Nature reserves.
- Wildlife conservation in Africa.
- Emerging Issues in resources conservation.

RECOMMENDED TEXTS

1. *The Ecology of National Resources* by I.G. Simmons

2. *Natural Resources Management and Climate Change* by Wilfred yangena

3. Sunanda Singh Chandba. 2013. *Mineral Resource Management and the Environment*. Random Publishers, New Delhi