

LATEST EDITION

GEOGRAPHY

JUPEB SYLLABUS



SYLLABUS FOR MSS-J134
GEOGRAPHY

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GENERAL OBJECTIVES

At the end of the series of courses, candidates should be able to:

1. explain the elements, processes and factors shaping global, national and local environments;
2. discuss the areal differentiations and linkages that characterize our environments; and
3. analyse and discuss spatial (geographical) attributes which provide solutions to contemporary and emerging natural and man-induced problems.

FIRST SEMESTER COURSES:

GRY 001: ELEMENTS OF PHYSICAL GEOGRAPHY

(3 UNITS)

GRY 002: FUNDAMENTALS OF HUMAN GEOGRAPHY

(3 UNITS)

SECOND SEMESTER COURSES:

GRY 003: MAP READING/ INTERPRETATION AND GIS

(3 UNITS)

GRY 004: REGIONAL GEOGRAPHY

(3 UNITS)

COURSE DESCRIPTION:

Gry 001: Elements Of Physical Geography

(3 Units)

The course is an introduction to Physical Geography. The goal is to provide the techniques that will stimulate the candidates to develop interest in the course through a range of specialized themes. The course involves lectures, tutorials and practical (field/laboratory) with the intent of equipping candidates with specific skills.

Specific Objectives

At the end of the course, candidates should be able to:

1. describe the basic spheres of the physical environment;
2. analyse and appreciate the links and interactions amongst the component spheres of the physical environment;
3. explain the complexity and interactive nature of the physical environment;
4. discuss the fundamental processes operating at different scales in the physical environment; and

5. explain the concept of hazards and sustainable management of the physical environment.

Course Content

S/N	TOPIC	SUB-TOPIC	DETAILS
1.	Elements of Physical Geography	Introduction to Geographical Ideas and Practice	The Universe: The Solar System; The Shape and Size of the Earth (Proof of its Sphericity); The Earth's Movement – Rotation (Day and Night), Revolution (Seasons); The Spheres of the Earth (Atmosphere, Biosphere, Lithosphere and Hydrosphere); Geographical Coordinates and location of Places on Earth; Latitude and Distance, Longitude and Time, Standard Time and Time Zones, The International Date Line.
		The Structure of the Earth	Rocks and Minerals: Classification of rocks – Igneous, Sedimentary and Metamorphic; Tectonic Movements and major Landforms (Types of Mountain, Plateau and Plain).
		Weather and Climate	Structure and composition of the atmosphere: Elements of Weather and Climate – Temperature, Precipitation, Humidity, Pressure, insolation (Solar radiation); Climatic Factors; Energy and Water balance; Evaporation and Evapotranspiration; Climatic Classification; Climate change and Global Warming.
		Weathering Processes and Mass Movement	Denudation and its Agents: Types of Weathering (Physical, Chemical and Biological)
		Drainage Basin System	The Hydrological Cycle; The Drainage Basin as a System (Inputs, Outputs, Stores and Flows)
		Landform Processes	Process and Landforms Associated with Running Water (River channel processes and landforms), Glaciation (Glacial processes and landforms - erosion, transportation and deposition); Arid, Granite and Karst environments

		(The Aeolian processes and landforms - wind erosion, transport and deposition; Drought and Desertification, Inselbergs, Etchplain, Pediplains etc); and Coastal Environment (Coastal Processes and Landforms; Wave Action); Sustainable Management of different Landform Environments.
	Soil and Vegetation	Factors and processes of Soil formation: Soil composition and characteristics; Soil classification and distribution; Vegetation types and underlying factors; Soil and Vegetation inter-relationship (Ecology); Human impact on Soil and Vegetation.
	Environmental Hazards	Pollution, Flood, Erosion, Deforestation, Desert Encroachment, Tsunamis, Hurricanes, Tornadoes, Landslides, Volcanism and Earthquakes: Origin, Types and Landforms associated with volcanic activities; Origin and Distribution of Earthquakes; Sustainable Management of Hazardous Environments.
	Field and Laboratory Works.	Students to visit places of geographical interest.

GRY 002: Fundamentals Of Human Geography (3 Units)

The course is to introduce candidates to the human environments as a distinct and integral part of the total global landscape. Its major aim is to present the man-made environment or the cultural landscape as a diversified phenomenon, which represents the outcome of man's dynamic interactions with the natural environment

Specific Objectives

At the end of the course, candidates should be able to:

1. highlight the distinctiveness of different human environments;
2. appreciate the concepts, processes and problems of explanation

Topographic Forms: Relief Features	Mountains, Plateau, and Dissected Highlands.
Description and Analysis of Relief Forms	Calculation of Gradient, Relief Profiles: Cross Profiles, Profiles along routes.
Interpretation of Cultural Phenomena on Topographic Maps	Settlements Types and Spatial distribution, Communication patterns, Socio-economic activities.
Inter-relationships Between Cultural And Physical Features On Topographic Maps	Settlement and Physical Features, Transport routes and Physical Features, Agriculture and Physical Features, Mining and Physical Features.
Graphic Presentation of Geographic Data	Divided circles (Pie charts), Line and curve graphs: Simple, Group (or comparative), Compound, Divergence, Cumulative, frequency Polygons, Bar Graphs: Simple, Group (or Comparative), Compound (or divided), Age and Sex Pyramid.
Geographical Information System	The Meaning, Components/Elements and Application.
Field and Laboratory Works in Remote Sensing, Cartography, & Geographic Information Systems (GIS)	Students to demonstrate skills in data collection and analysis on the field and in the laboratory using GIS equipment.

GRY 004: Regional Geography

(3 Units)

This course introduces the candidates to the analysis of Geographical themes from the Regional perspective.

Specific Objectives

At the end of the course, candidates should be able to:

1. discuss the Geography of their immediate environment (Nigeria, West Africa and Africa);

2. discuss the Geography of a continental region outside Africa (North America), its influence on our society and other parts of the world; and
3. compare regions on their physical, human, environmental and the socio-cultural links within the regions.

Course Content

TOPIC	SUB-TOPIC	DETAILS
4. Regional Geography	The Physical Environment	Location, Position, Size, Geopolitical Divisions of Nigeria, West Africa, Africa and North America.
	The Human Environment	Socio-cultural and Economic Components of the human environment in Nigeria, West Africa, Africa and North America.
	The Concept of Spatial Organization	Meaning, Types and Importance.
	Region and its Types	Homogenous, Functional and Programming Regions; Regional Development (Regional Disparities in Social and Economic Development within Countries).
	The Economy	Agriculture (Agriculture and Rural Land Use, Agricultural Regions of the World), Mining, Industry; Trade Flows and Trading Patterns; The World Trade Organisation (WTO); Economic Transition (National Development, Globalisation of Economic Activities).
	The Socio-cultural Setting	Tourism, Religion and Ethnicity.
	Environmental Resources	Meaning, Types, Challenges and Management.
	Field work	Visit to Places/Regions.

RECOMMENDED TEXTS

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GRY 001: Elements of Physical Geography

1. R.B. Bunnet (1976): *General Geography in Diagrams*, Longman.
2. Goh Cheung Leong et al., *Human and Economic Geography*, Oxford University Press.
3. A.N. Strahier (1979): *Modern Physical Geography*, Oxford University Press.
4. R.J. Small (1968): *The Study of Landforms*, Cambridge.
5. Preece and Wood (1938): *Physical Geography*, London University.
6. Ivara Ejemot Esu (2010): *Soil Characterization, Classification and Survey*, HEBN Publishers Plc.
7. Getis, Getis, Bjjeland, Fellmann (2011): *Introduction to Geography: 13th Edition*, Mcgraw-Hill International.
8. Darrel Hess (2012): *Physical Geography (A Landscape Appreciation)*: 10th Edition, PHI Learning Private Limited.

GRY 002: Fundamentals of Human Geography

1. Kendal Henry M. et al.(1974): *Introduction to Geography*, Harcourt Brace New York.
2. Knowles R. and Wareing. J. (1981) *Economic and Social Geography*, W. H. Allen & Company Ltd, U.K.
3. Okafor S.I. (1988): *Introduction to Man-Environment Interaction*, University Press, Ibadan.
4. Terry G.Jordan- Bychov and Mona Domosh (2003): *The Human Mosaic: The Thematic Introduction to Cultural Geography*, (9th edition). Macmillan, New York.
5. Waugh .D.(1995): *Geography: An Integrated Approach*, second Edition, Thomas Nelson & Sons LTD, U.K.
6. Areola, O et. al. (1978): *Geography of Nigerian Development*, Longmans, Nigeria.
7. Kehinde George (2009): *The Challenges of Urbanization in Nigerian Urban Centres – The Lagos Mega City Situation*, Libro-Gem Books, Lagos, Nigeria.
8. Haarman, J. and Clawson J. (2012): *World Regional Geography: 10th Edition*, PHI Learning Private Limited.
9. Hobbs & Salter (2006): *Essentials of World Regional Geography*:

10. Bjjeland, Montello, Fellman, Getis, Getis (2013): *Human Geography (Landscape Activities of Human Activities)*: 12th Edition, Mcgraw-Hill International.

GRY 003: Map Readings, Interpretation, and Geographic Techniques

1. Nimako D. A. (1991): *Map Reading for West Africa*, Longman.
2. Hilton, T. E. (1961): *Practical Geography in Africa*, Longman.
3. Monkhouse, F. J. and Wilkinson, H. R. (1972): *Maps and Diagrams*, Methuen and Co. Ltd, London.
4. Wilsner and Okoye: *Map Reading and Interpretation*, African University Press.
5. Pritchard, J. M. (1984): *Practical Geography for Africa*, Longman, London.
6. Birch, T. W. (1978): *Maps (Topographic and Statistical)*. Oxford University Press, London.
7. Longely, P. A., Goodchild, M. F., Maguire, D. J. and Rhind, D. W. (2005): *Geographic Information Systems and Science*. John Wiley and Sons, London.
8. Funsu, I.J (Ed.) (2005): *Geography Practical Manual*. A publication of School of Basic and Remedial Studies, Funtua.

GRY 004: Regional Geography

1. Nimako D. A. (1991): *Map Reading for West Africa*, Longman.
2. Hilton, T. E. (1961): *Practical Geography in Africa*, Longman.
3. Monkhouse, F. J. and Wilkinson, H. R. (1972): *maps and Diagrams*, Methuen and Co. Ltd, London.
4. Wilsner and Okoye: *Map Reading and Interpretation*, African University Press.
5. Pritchard, J. M. (1984): *Practical Geography for Africa*, Longman, London.
6. Birch, T. w. (1978): *Maps (Topographic and Statistical)*. Oxford University Press, London.
7. Longely, P. A., Goodchild, M. F., Maguire, D. J. and Rhind, D. W. (2005): *Geographic Information Systems and Science*. John Wiley

- and Sons, London.
8. Funsu, I.J (Ed.) (2005): *Geography Practical Manual*. A publication of School of Basic and Remedial Studies, Funtua.
9. Haarman, J.o. and Clawson, J. (2012). *World Regional Geography*, 10th Edition, PHI Learning Private Limited.
10. Hobbs and Salter (2006). *Essentials of World Regional Geography*, 5th Edition, Thomson Brooks/Cole.
11. Agboola, T. and Oladoja, A. (2004). *Readings in Urban and Regional Planning (eds)*, Macmillan, Nigerian Publishers Limited.