



LEAD CITY UNIVERSITY
Faculty of Social and Management Sciences
Department of Sociology and Psychology

COURSE PARTICULARS

Course Code: SOC 311

Course Title: **Demographic Techniques**

Course Units: 2

Course Status: Required

LECTURER'S DETAILS

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Area of Specialization: Urban Planning, Environmental Resources Management and Climate Adaptation

Course description: This course integrates conceptualization of theories and analytical principles, to enhance students' capacity in calculating demographic changes and apply such to socio-economic decisions.

Course Objectives

- ✓ to familiarize the students with the various demographic concepts and their relevancies to sociology
- ✓ to educate the students with methods of projection and analysis of demographic data
- ✓ to examine applications of demographic techniques in national development planning

Assessment

Attendance:	5%
Class Test and Assignment:	25%
Final Examination:	70%

LECTURE PLAN

Week	Topic
Week 1	Introduction: Basic concepts in demographic techniques
Week 2	Sources and uses of demographic data
Week 3	Population distribution and Demographic composition
Week 4	Construction of population pyramid
Week 5	Census Framework and management of demographic data
Week 6	Population change and population projection techniques
Week 7	Lexis diagram construction
Week 8	Demographic data (Census framework) and development planning
Week 9	Migration analysis
Week 10	Life table model
Week 11	Wealth and health determinants in population studies
Week 12	Presentation of Term Papers on thematic issues

READING LIST

1. PRB (2015) World Population Data Sheet, www.prb.org
2. Udo, R. K. (1993) *Migration, urbanization and development*. (National Population Commission, Lagos)
3. Williams, F. Hornby and Merloyn, J. (1993): *An Introduction to Population Geography* (2nd Ed) Cambridge: University Press.
4. Egbinola, J.A. and Reune, E.P. (2000): *Population and Developmental Issues: ideas and Debates*. Ibadan: African Book Builder Ltd.
5. Onorkorhoraye, A.G. (1985): *Population for African Studies*. Benin City: The Benin Social Sciences Series for Africa

TUTORIAL QUESTIONS

1. With appropriate illustration, describe the uses and limitations of demographic data from specific sources
2. With suitable diagram, discuss the operational framework of a good census
3. A. Discuss the use of life table and Lexis diagram in demographic analysis

- B. What are the contributions of ICT in demographic analysis and population data management?
4. Discuss the general typology of migration
 5. Discuss the world population-induced problems over social environment
 6. The population of Uganda in 1980 was 2.5 million and the annual rate of increase between 1960 and 1970 was estimated at 2.4 per cent. By interpolation, what was the population of the country in 1965? Approximate your answer to two decimal places.
 7. For a progressive report on the Sustainable Development Goals (SDGs) in Nigeria, an annual growth rate of 2.5 percents is assumed. Use the Malthusian exponential model to determine the population size of Oluyole Local Government Area of Oyo State, in 2030 and 2050, if according to the 2006 National Census, the settlement was 5002
 8. Examine the need for integrated management of demographic data in socio-economic planning in Nigeria
 9. Explain the demographic growth theories that are available to sociologies
 10. Discuss the socio-economic structure needed for demographic analysis
 11. How and why does the age pattern of fertility differ between different populations? Discuss
 12. A Construct age – sex pyramid for democratic Republic of Congo using the data in the table below. All values given are percentages of the total population:

AGE GROUP	GROUP A	
	MALE	FEMALE
0 – 4	10.1	10.1
5 – 9	7.6	7.7
10 – 14	6.1	6.2
15 – 19	5.0	5.1
20 – 24	4.1	4.3
25 – 29	3.2	3.6
30 – 34	2.6	3.1
35 – 39	2.2	2.6
40 – 44	1.9	2.1
45 – 49	1.6	1.7
50 – 54	1.3	1.4
55 – 59	1.0	1.1
60 -64	0.7	1.2
>64	1.1	1.3

B Describe the main features of the pyramid and classify it as developed and developing region.

C Provide a pie chart for the region using children, adult and aged classifications.