



LEAD CITY UNIVERSITY
Faculty of Social and Management Sciences
Department of Economics

COURSE PARTICULARS

Course Code: ECO 113
Course Title: Introduction to Statistics II
Number of Units: 2
Status: Compulsory

LECTURERS DETAIL

Name: (1) Dr. O. O. Ogunjimi
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Area of Specialization: Production, Resource Economics

Name: (2) Ojo, S. I.
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Area of Specialization: Monetary Economics

COURSE DESCRIPTION

The theory of probability; conditional probability; independent and dependent events; mutually exclusive events; probability distributions; permutation and combination; introduction to statistical distributions and density functions, especially the Binomial, Poisson and Normal distribution.

COURSE OBJECTIVES

1. Introduction to the basic concepts of probability.
2. Distinguishing between independent and dependent events.
3. Examination of the basic rules of probability.
4. Construction of models of statistical distribution.

ASSESSMENT

Tests – 20 %; Attendance – 10 %;
Examination - 80%;
Total - 100%

TEACHING PLAN

Week	Topic
Week 1-2	Introduction <ul style="list-style-type: none"> • Definition of Probability • Concepts in Probability • Approaches to Probability • Tutorials
Week 3-4	Properties of Probability <ul style="list-style-type: none"> • Mutually exclusive events • Independent and dependent events • Conditional Probability • Tutorials
Week 5-7	Fundamental Rules in Probability <ul style="list-style-type: none"> • Addition rule • Multiplication rule • Tree diagram • Tutorials
Week 8-10	Probability of Events <ul style="list-style-type: none"> • Probability of single events • Probability of multiple events • Sample space • Euler diagram • Tutorials
Week 11-13	Models of Statistical Distribution and Density Functions <ul style="list-style-type: none"> • Binomial distribution • Poisson distribution • Normal distribution • Tutorials
Week 14&15	Revision and Examination

READING LISTS

Murray Spiegel and Larry Stephens (2000). *Statistics*. Fourth Edition, Schaum's Outlines, Tata McGraw-Hill, New Delhi.

Oyesiku O. and Omitogun O. (2004) *Basic Statistics for Social and Management Sciences*, CESAP, OOU, Ago-Iwoye, Ogun State.

Spiegel M. and Schiller (2009). *Probability of Statistics*. Third Edition. McGraw Hill Publisher New York.

Adamu, S. O. and Johnson, T. L. (1997). *Statistics for Beginners*. SAAL Publications, Bodija, Ibadan.

Omotoso, Y. M. (2002). *College and University Statistics*. Yosode Book Publishers, Moniya, Ibadan.

