ECO 113: INTRODUCTION TO MATHS II

Contact Hours: 3Units

Course Content

Functions; Exponential and logarithm. Higher - order determinants. Matrix Inversion. Cramer's Rule. Calculus: Maxima and Minima. Integration and Applications First - order Differential Equation

### BHR 210: STATISTICS

**Credit Hours: 3 Hrs**

**1.0 Course Purpose**

The purpose of this course is to equip learners with skills and competencies on statistics

**2.0 Expected Learning Outcomes**

By the end of this course, the learner should be able to:

1. Calculate Measures of Central Tendency
2. Calculate Skewness and Kurtosis
3. Calculate simple and multiple regressions
4. Identify Use of index numbers
5. Apply basic probability concepts and probability distributions as an aid to business decision making.

**3.0 Course Content**

Meaning and scope of business statistics, the nature of statistical enquiry, collection, classification and presentation of data, frequency distribution and measures of central tendencies, measures of dispersion, skewness and kurtosis, index numbers. Time series and forecasting analysis, Simple and Multiple linear regression, correlation, theory of probability, probability distributions, sampling and sampling distributions, measurement of economic inequality – Lorenz curves and graduating income distribution.

**4.0 Mode of Delivery**

Lectures, group discussions, class presentations and case studies

**5.0 Instructional Materials and Equipments**

LCD, internet connected computers/ smart-phones, white-board/flipchart and marker pen.

**6.0 COURSE EVALUATION**

CAT 30%

End of Semester Exams 70%

Total 100%

**7.0 Text Books and Journals**

David, S Moore *et.al (2009)*, *Introduction to the Practice of Statistics*, (6th Edn) WH. Freeman.

Levin, I. R. (2000). *Statistics for Management*, (4th ed); McGraw Hill.

**8.0 Recommended Text Books And Journals**

Bluman, A.G,.(2007). *Elementary Statistics*, *6th Edition*.McGraw Hill, New York

Hogg, RV, McKean JW & Craig AT (2003) *Introduction to Mathematical Statistics,* 6th ed., Prentice Hall,

Robert V H. and Elliot A. T (2005). *Probability and Statistical Inference,* 7th ed. Prentice Hall College Div