Faculty	**Management and Social Science**
Department	**Economics**
Course Title	**Applied Statistics**
Year of Study	**2**
Course Code	**ECN 211**
Credit Hours	**2**
Contact Hours	**30**
Mode of Delivery	**Classroom Lectures**

Mode of Assessment	Weight
Continuous Assessment Final Examination	30% 70%
Total	100%

Course Lecturer	Dr. O.J. Omokanmi	
Course Description	Applied Statistics involves the application of statistical techniques in gathering and analyzing data from which inferences can be made on different economic issues and scenarios. It involves topics such as sampling and sampling techniques, hypotheses testing. T-Statistics and Z-Statistics, Chi-Squre Statistics etc	
Course Objectives	This course would enable the understanding of the following: 1. Sampling and Sampling Techniques 2. Hypothesis testing 3. Difference between means when sample size is small 4. Difference between means sample size is large 5. Difference between proportions when sample size is small 6. Difference between proportions when sample size is large 7. Chi-Squre statistics 8. Trend Analysis 9. Forecasting	
Learning Outcomes	By the end of the course, students will be able to: 1. Conduct Sampling and determine Sampling Techniques 2. Conducting hypothesis testing 3. Conduct difference between means when sample size is small 4. Execute difference between means sample size is large 5. Execute difference between proportions when sample size is small 6. Carry out difference between proportions when sample size is large 7. Conduct Chi-Squre statistics 8. Execute trend Analysis 9. Conduct Forecasting analysis	

Teaching and Learning	The class will meet for two hours every week for a combination of both the lecture hours and tutorials.	
Detailed Course Content		
	Course Content Sequencing	
Weeks	Detailed Course Outline	Allocated Time
Week 1	1. Conduct Sampling and determine Sampling Techniques • Probability Sampling • Non Probability Sampling	
Week 2	2. Conducting hypothesis testing • One- tail and two-tail test • Level of Significance	
Week 3,4	3. Conduct difference between means when sample size is small	
Week ,5	4. Execute difference between means sample size is large	
Week 6	5. Execute difference between proportions when sample size is small	
Week 7, 8	6. Carry out difference between proportions when sample size is large	
Weeks 9,	7. Conduct Chi-Squre statistics	
Week 10	8. Execute rend Analysis	
Week 11	9. Conduct Forecasting analysis	
12	Revision	
13,14	Examination	

Recommended Reading Material

1. Dowling, E.T.(2019). Introduction to Mathematical Economics. McGraw-Hill International Edition.
2. Ekanem, O.T. & Iyoha, M.A. (2013). Mathematical Economics. An introduction. Mareh Publishers.