Faculty		Management and Social Science			
Department		Economics			
Course Title		Introduction to Statistics 1			
Year of Study		1			
Course Code		ECN 105			
Credit Hours		2			
Contact Hours		30			
Mode of Delivery		Classroom Lectures			
Mode of Assessment			Weight		
Continuous Assess	ment		30%		
Final Examination			70%		
Total			100%		
Course Lecturer	MR I	D.O. AKINBODE			
Course	Intro	duction to Statistics is designed to provide undergr	raduate students with a		
Description	found	lational understanding of statistical concepts and	methods. This course		
	cover	rs essential topics such as data collection, organiz	zation, and analysis of		
	data	using descriptive techniques. Through a combination	on of lectures, practical		
	exerc	ises, and real-world examples, students will learn	n how to interpret and		
	comr	nunicate statistical findings effectively.			
Course	This	course would help student to:			
Objectives	1	. Help student develop the ability to analyze varie	ous types of data using		
		appropriate statistical techniques, including desc	criptive statistics,		
		inferential statistics, and regression analysis.			
	2	. Equip students with the skills to make informed	decisions based on		
		statistical evidence and analysis, considering fac	ctors such as		
	2	confidence intervals, hypothesis testing, and effe	ect sizes.		
	3. Provide students with the knowledge and tools to critically evaluate				
		statistical claims encountered in academic literature, professional			
		reports, media, and everyday contexts, including identifying sources			
	1	of bias, misleading interpretations, and logical fallacies.			
	+	analysis and reporting emphasizing the import	ance of transparency		
		integrity and accountability in statistical researce	when and		
		communication			
	5	Strengthen students' quantitative reasoning and	analytical skills to		
	5	effectively interpret and draw meaningful insight	ts from data enabling		
		them to address complex problems and make evidence-based			
		decisions across various domains.			
Learning		By the end of the course, students will be equip	bed and able to:		
Outcomes		(i) analyze data,			
		(ii) make informed decisions, and			

r							
	(iii) evaluate statistical claims encountered in academic,						
	professional, and everyday contexts.						
	(iv) Cultivate ethical practices in data collection, analysis, and reporting, including awareness of biases, limitations, and						
	assumptions inherent in statistical analysis.						
	(v) Ennance quantitative reasoning and anal	d solving complex					
	nrohlems	a solving complex					
	problems.						
Teaching and	The class will meet for two hours every week for a combination of both the						
Learning	lecture hours and tutorials.						
	The source having with mapping definition of definition of the first o						
Detailed Course	The course begins with meaning, definition and scope of statistics, concepts of						
Content	population, sample and sampling techniques, variables and different categories						
	presentation frequency distribution and charts quartile	deciles and percentile					
	measure of central tendencies, spearman rank correlation	on analysis					
	Course Content Sequencing						
Weeks	Detailed Course Outline	Allocated Time					
Week 1	*Meaning, Definition and Scope of statistics						
	• Overview of the Course						
	Importance of Statistics in Various Fields						
	<ul> <li>Meaning and Definition of Statistics</li> </ul>						
	<ul> <li>Understanding Statistics as a Discipline</li> </ul>						
	<ul> <li>Definition of Statistics</li> </ul>						
	<ul> <li>Scope and Applications of Statistics</li> </ul>						
	<ul> <li>Distinction Between Descriptive and</li> </ul>						
	Inferential Statistics						
Week 2	*Concepts of population, sample and sampling						
	techniques						
	• Brief Overview of Population and						
	Sample						
	• Definition and Characteristics of						
	Population						
	• Definition of Sampling and Importance						
	• Types of Dopulations and Types of						
	• Types of ropulations and Types of Sampling Techniques						
	Comparison and Selection of Sampling						
	Techniques						

Week 3,4	*Variables and different categories of variables	
	Introduction to Variables	
	Types of Variables	
	Continuous and Discrete Variables	
	Categorical Variables	
	Measurement Scales	
Week 5	*Data: sources, types, techniques of data collection	
	and data presentation	
	Introduction to Data	
	Sources of Data	
	• Types of Data	
	Techniques of Data Collection	
	Data Presentation Techniques	
	Data Analysis and Interpretation	
Week 6, 7	*Frequency distribution and charts	
	Introduction to Frequency Distribution	
	Construction of Frequency Distribution	
	Types of Frequency Distributions	
	Frequency Charts	
	Ogive (Cumulative Frequency Curve)	
	* Continuous Assessment I	
Week 8	*Deciles and percentile	
	<ul> <li>Introduction to Deciles and Percentiles</li> </ul>	
	• Deciles: Definition and Calculation	
	• Percentiles: Definition and Calculation	
	Calculation Methods	
	Grouped Data and Percentiles	
	Interpretation and Application	
Weeks 9, 10	*Measure of central tendencies	
	Introduction to Measures of Central	
	Tendencies	
	Mean: Definition and Calculation Methods	
	Median: Definition and Calculation	
	Methods	
	Mode: Definition and Calculation Methods	
	Relationship between Central Tendencies	
	*Continuous Assessment II	
Week 11	*Spearman rank correlation analysis	
	Introduction to Correlation Analysis	
	Understanding Spearman Rank Correlation	
	Calculation of Spearman Rank Correlation	
	Coefficient	

	<ul> <li>Interpreting Spearman Rank Correlation Coefficient</li> <li>Assumptions and Conditions of Spearman Rank Correlation</li> </ul>				
Week 12	Revision				
Week 13, 14	Examinations				
Recommended Reading Material					
1. Nwabuokei P.O (1986). Fundamentals of Statistics, Koruna Books, Enugu, NG					
2. Bluman, A.G (2004). Elementary statistics: A step by step approach. McGraw-Hill					
Companies Inc, New York, USA					

Wheelan, C. (2013). Naked Statistics: Stripping the Dread from the Data. W. W. Norton & Company.