

Republic of the Philippines

Cagayan State University

Andrews Campus Caritan Sur, Tuguegarao City, Cagayan 3500

Course Plan

ELEMENTARY STATISTICS AND PROBABILITY

First Semester, School Year 2024-2025

Торіс	Learning Materials to be provided	Assessment to be administered	Modality		
MIDTERM TOPICS					
Unit 1: Basic Concepts and Terminologies in Statistics Topic 1: Definition and Importance of Statistics Topic 2: Basic Terms in Statistics Topic 3: Levels of Measurement	Slides, Recorded Lecture https://youtu.be/eIMX_AmmKWk	Pen and paper quiz, activity sheets, Recitation	Online for the recorded lecture, Face to face for assessment		
Unit 2: Data Collection and Sampling Techniques Topic 1: Data Collection Topic 2: Sampling Techniques	Slides, Recorded Lecture https://youtu.be/qffh6oRdGaY	Pen and paper quiz, activity sheets, Recitation	Online for the recorded lecture, Face to face for assessment		
	Quiz (Unit 1 & 2)	I.	II.		
Unit 3: Methods of Data Organization Topic 1: Graphical Method (Chart) Topic 2: Tabular Method (Frequency Distribution Table) Topic 3: Textual Method	Slides	Pen and paper quiz, activity sheets, Recitation	Face to face both for lecture and assessment		
Unit 4: Descriptive Statistics Topic 1: Measures of Central Tendency Topic 2: Measures of Variation Topic 3: Measures of Position (Quantiles)	Slides, Recorded Lecture https://youtu.be/k-ocZM4us98 https://youtu.be/knQ5WWEjdZY https://youtu.be/uCfcV23QF6U	Pen and paper quiz, activity sheets, Recitation	Online for the recorded lecture, Face to face for assessment		
	Quiz (Unit 3 & 4)				
Unit 5: Probability and Counting Techniques Topic 1: Fundamental Principle of Counting (FPC) and Alternative Principle of Counting (APC) Topic 2: Permutation Topic 3: Combination Topic 4: Probability	Handout with detailed solutions, Recorded Lecture APC wheels of chance explanation https://youtu.be/9jWEHz2EQdU Permutation Part 1 https://youtu.be/fdacGoKqfFo Permutation Part 2 https://youtu.be/IRb3SfTYVYQ Permutation Part 3 https://youtu.be/JmNO1BpAAyo Permutation Part 4 https://youtu.be/BYeHGt129AY Permutation Part 5 https://youtu.be/6AGkKZxFvFw Combination Part 1 https://youtu.be/niohBO9Vo Combination Part 2 https://youtu.be/4d2TKtOZm44 Combination Part 3 https://youtu.be/k5VgYXSozfQ Probability of Single Events Part 1 https://youtu.be/nu2f1fEX0UY Probability of Single Events Part 2 https://youtu.be/Ar4EkUXkVJc Probability of Single Events Part 3 https://youtu.be/Ar4EkUXkVJc Probability of Single Events Part 4 https://youtu.be/9x4ofLVHQEY Probability of Complementary Events https://youtu.be/A6gdaqUifxs	Pen and paper quiz, activity sheets, Recitation	Face to face for the topics FPC and APC Online for the recorded lecture (Permutation, Combination, and Probability), Face to face for assessment		



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	Probability of Mutually and Not			
	Mutually Exclusive Events Part 1			
	https://youtu.be/-39e-1QsPe0			
	Probability of Mutually and Not			
	Mutually Exclusive Events Part 2			
	https://youtu.be/QVSrgZBB7M8			
	Probability of Dependent and			
	Independent Events Part 1			
	https://youtu.be/USS5gL6HMzk			
	Probability of Dependent and			
	Independent Events Part 2			
	https://youtu.be/l5SQ71NI9gI			
	Probability of Dependent and			
	Independent Events Part 3			
	https://youtu.be/AWdCCYi1gaU			
	Probability of Dependent and			
	Independent Events Part 4			
	https://youtu.be/SHvkdYRyQVE			
	© Conditional Probability Part 1			
	https://youtu.be/BUw9eu9lHl0			
	© Conditional Probability Part 2			
	https://youtu.be/KpiGjaxqSu0			
	Quiz (Unit 5)			
	MIDTERM EXAM			
	FINAL TERM TOPICS			
Unit 6: Normal Distribution	Slides	Pen and paper	Face to face both	
Topic 1: The Concept of Normal		quiz, activity	for lecture and	
Distribution		sheets,	assessment	
Topic 2: Empirical Rule		Recitation		
Topic 3: Standard Score				
Topic 4: Normal Curve Areas				
Quiz (Unit 6)				
Unit 7: Hypothesis Testing	Slides	Pen and paper	Face to face both	
Topic 1: Hypothesis Testing Defined		quiz, activity	for lecture and	
Topic 2: Hypothesis Testing using P-value Method		sheets,	assessment	
Unit 8: Inferential Statistics: Test of	Slides, Recorded Lecture	Recitation Pen and paper	Online for the	
Difference	Overview of the commonly used	quiz, activity	recorded lecture,	
Topic 1: Overview of the commonly used	inferential statistics	sheets,	Face to face for	
inferential statistics	https://youtu.be/udjjHS4sgfU	Recitation	assessment	
Topic 2: Independent Sample t Test	Independent Sample t Test			
Topic 3: Paired Sample t Test	https://youtu.be/wHILDevFets			
Topic 4: Analysis of Variance (ANOVA)	Paired Sample t Test			
	https://youtu.be/vT5u1Nr5c1w			
	One way ANOVA			
Unit 9: Inferential Statistics: Test of	https://youtu.be/bDFlrLuKLOs Slides	Pen and paper	Face to face both	
Relationship	Bildes	quiz, activity	for lecture and	
Topic 1: Chi Square		sheets,	assessment	
Topic 2: Correlation				
		Recitation		
Topic 3: Linear Regression		Recitation		
	Quiz (Unit 7, 8, & 9) FINAL EXAM	Recitation		

Google drive link of all slides and handouts from Unit 1 to Unit 9:

https://drive.google.com/drive/folders/1I9R3fJonnvVyvNtzQTZBDqTXJLDsi54Z?usp=sharing