



Victoria University of Bangladesh

58/11/A, Panthapath, Dhaka-1205

Course Profile

Faculty	Business Administration		
Program	BBA		
Course Code	STA 321		
Course Title	Statistical Decision Making		
Course Instructor	<p>MD. EDRICH MOLLA JEWEL Coordinator & Lecturer Department of Business Administration E-Mail: jewelmolla77@gmail.com Victoria University of Bangladesh</p>		
Status	Compulsory		
Credit Hours	3 Credit hours		
Teaching Methodology	<p>Class Attendance Work sheet Assignment Mid-Term Final-Term</p>		
Evaluation Method	<p>Class Attendance.....15% Class Test.....5% Assignment.....5% Viva.....5% Presentation.....5% Mid-Term.....25% Final-Term.....40%</p>		
Grading System	Numerical Grade	Letter Grade	Grade Point
	80% and above	A+ (A Plus)	4.00
	75% to less than 80%	A (A Regular)	3.75
	70% to less than 75%	A- (A Minus)	3.50
	65% to less than 70%	B+ (B Plus)	3.25
	60% to less than 65%	B (B Regular)	3.00
	55% to less than 60%	B- (B Minus)	2.75
	50% to less than 55%	C+ (C Plus)	2.50
	45% to less than 50%	C (Regular)	2.25
	40% to less than 45%	D (Regular)	2.00
	Less than 40%	F (Fail)	0.00
Course Objective	To help students better understand some of the more difficult topics about the methods of obtaining and analyzing data in order to take decision by statistical measurement.		
Book(s)	<p>Basic Texts: 1. S. P. Gupta & M.P. Gupta, Business Statistics. Reference Books: 1. Howard L. balsley, Basic Statistics for Business and Statistics. 2. Mason & Lind, Statistical Techniques in Business and Economics.</p>		



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Lecture Plan

Lecture No.	Main Topic	Sub-topics
1 st	<u>Chapter 01 :</u> Introduction	Definition, Statistical Data, Statistical Methods, Functions of Statistics, Scope of Statistics, Limitations of Statistics.
2 nd	<u>Chapter 02:</u> Collection of Data	Secondary Data, Internal Data, Primary Data, Designing a Questionnaire, Pre – testing the Questionnaire, Specimen Questionnaire, Editing Primary data.
3 rd & 4 th	<u>Chapter 03:</u> Presentation of Data	Classification of Data, Formation of a Frequency Distribution, Classification according to Class Interval, Principles of Classification, Tabulation of Data, Types of Tables, Charting Data, General Rules for Constructing Diagrams, Types of Diagrams, Graphs.
5 th	<u>Chapter 04:</u> Measures of Central Tendency	Introduction, Arithmetic Mean, Geometric Mean, Weighted Arithmetic Mean, Harmonic Mean, Mode, Median, Quartiles, Deciles, Percentiles, Properties of a good Average.
6 th	<u>Chapter 05:</u> Measures of Dispersion	Significance of Measuring Dispersion, Properties of a Good Measures of Dispersion, Range, Inter Quartile Range and Quartile Deviation, Mean Deviation, Standard Deviation, Co-efficient of Variations and Their Usages.
<u>Mid-Term Exam</u>		
7 th	<u>Chapter 06:</u> Correlation Analysis	Significance of the Study of Correlation Causation, Types of Correlation, Scatter Diagram Method, Karl Pearson's Coefficient of Correlation, Rank Correlation Co-efficient.
8 th	<u>Chapter 07:</u> Regression Analysis	Difference between Correlation and Regression Analysis, Simple Regression Lines, Regression Equation, Regression Co-efficient.
9 th & 10 th	<u>Chapter 08:</u> Index number	Price Index, Quality Index, Value Index, Cost of Living Index Numbers, Chain Index Number, Base Shifting, Splicing and Deflating the Index, Test of Index Numbers, Limitations and Usages.
11 th	<u>Chapter 09:</u> Tests of Hypothesis	Introduction, Procedure of Testing Hypothesis, Type I and Type II Errors, One – Tailed and Two – Tailed Tests, Tests of Hypothesis Concerning Large Sample, Testing Hypothesis about Population Mean, Testing Hypothesis about the Difference between two Means, Test of Hypothesis concerning Attributes, Testing Hypothesis about Population Proportion.
12 th	<u>Chapter 10:</u> Small Sampling Theory	Introduction, Properties of t – Distribution, Test of Hypothesis about the Population Mean, Test of Hypothesis concerning the Difference between two Means, Concerning the Correlation, F – Distribution.
12 th	Presentation & Overall Class Review	
<u>Final Exam</u>		

Instructions for Assignments & Term Paper :

To be announced in the class

Examination Rules:

According to the existing Examination Policy of VUB

Others:

Any other issues & queries related to the course will be discussed and explained as and when required.