

SAULT COLLEGE OF APPLIED ARTS % TECHNOLOGY

SAULT STE* MARIET ONTARIO

COURSE QUILIfcIE

Course Title? STATISTICS
Code No « • MTH 262-4
Program! BUSINESS <ACC*. E » D * P * » F*S*M*>
Semester* III
Date? JUNE 2* 1983
Author J U* MAKI % J, GLOUACKI

New •

Revision*

APPROVEDt

Chsi rperson

Date

STATISTICS

MTH 262-4

Course Name

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EUILOSOEUXZGdLS:

This is the first semester of a Business Statistics course and approximately one-third of the course is spent on descriptive statistics with business applications* The other two-thirds covers probability and probability distributions sampling and sampling distributions and some linear regression and correlation* This should give those students t a k i r only this semester of statistics sufficient background to apply and recognize statistical techniques in their careers and other courses*

METHOD OE ASSESSMENT iGBADING MEIU0D1*

Periodic tests covering 2 or 3 weeks material plus any unannounced surPr: tests are suggested* A final exam and a comprehensive supplemental exam may be given at semester end st the discretion of the instructor and if department or college policy is appropriate.

TEXTBOOK(S)*

Statistics for Hanagementit

- R * L e v i n

QBJECIIUES:

The basic objective is for the student to develop an understanding of the methods studied? knowledge of the facts presented and an ability to use these in the solution of problems* For this purpose; exercises are assigned* Tests will reflect the sort of work contained in other assignments* The level of competency demanded is the level required to obtain an overall passing average on the tests* The material to be covet is listed in the following pa3e(s).

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFER
		<u>Definition of Statistics</u>	Page
		Classification of Statistics	Page
		Collection of data? samples and populations? construction of frequency tables	Pages
		Histograms? frequency polygons? frequency curves and Ogives	Pages
		Descriptive Measures Meaning of measures of Central Tendency? Arithmetic Mean? weighted mean? geometric mean? median mode	Pages
		Measure of Variability Meaning of dispersion? range? quartiles? standard deviation	Pages
10		Probability History of probability? two types of probabilities? rule of addition? rule of multiplication? Joint and conditional probabilities? Bayes' theorem	Pages
		Probability Distribution Meaning of Probability distribution? types of distribution? random variable	Pages
		Binomial Distribution Mean? Standard Deviation and the use of Binomial Tables	Pages
		Poisson Distribution Mean? Standard Deviation and calculating probabilities	Pages
		Normal Distribution Characteristics? area under the curve? standard Normal Curve and its applications*	Pages

TOPIC DESCRIPTION

REFERENCES

Sailing

Pages 179-2

Purpose and definition* different
types of sampling? sampling distribution?
standard error

Estimation

Pages 208 •

Point and interval estimation! criteria
of good estimator? large and small sample
estimation for mean and the proportions.
Determination of sample size*