



C.U.SHAH UNIVERSITY, Wadhawan city

FACULTY OF COMMERCE

DEPARTMENT OF MASTER OF COMMERCE (M.COM)

SEMESTER III (Three)

CODE 5MC03AST1

Name of Subject Advanced Statistics

Teaching & Evaluation Scheme

Teaching Scheme(Hours)				Evaluation Scheme(Marks)		
Theory	Tutorial	Practical	Total	Sessional Exam	University Exam	Total
4	0	0	4	30	70	100

Objective

- To develop skills in structuring and analyzing business problems using quantitative analysis.
- To develop aptitude and statistical thinking approach to business problems.
- To understand the effective use of computer software for resolution of statistical problems.

Prerequisite

Basic Knowledge about Calculation & Mathematics

Course outline:-

Sr. No.	Course Contents	Number of Hours
1	Univariate Analysis An overview of central tendency for Ungroup & Group data	5
2	Probability Theory Probability classical, relative, and subjective probability; Addition and multiplication probability models; Conditional probability and Baye's theorem.	10



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3	Statistical Decision Theory Decision environment; Expected profit under uncertainty and assigning probabilities; Utility theory	10
4	Sampling and Data Collection Sampling and sampling (probability and non probability) methods; Sampling and non-sampling errors; Law of Large Number and Central Limit Theorem; Sampling distributors and their characteristics.	10
5	Statistical Estimation and Testing Point and interval estimation of population mean, proportion, and variance. Statistical testing – hypotheses and errors; Sample size; Large and small sampling tests – Z tests, T tests and F tests.	10
	Total	45

Learning Outcomes

Theoretical Outcomes: It is useful to know different Statistical tools

Practical Outcomes: It is useful to solve business problem & also for the research work.

Teaching & Learning Methodology

- Lectures and Discussions
- Assignments

Books Recommended

1. "Statistics for Business and Economics", Hooda, R. P, Macmillan, New Delhi.
2. "Statistics for Business & Economics", Heinz, Kohler Harper Collins, New York.
3. "Quantitative Approach to Managerial Decisions", Hien, L.W, Prentice Hall, New Jersey.

E-Resources

1. http://www.jsu.edu/library/resources/research_resources.html
2. http://www.researchgate.net/publication/222042135_Assessing_undergraduate_use_of_electronic_resources_A_quantitative_analysis_of_works_cited
3. http://wps.pearsoned.co.uk/ema_ge_render_qam_11