

Kachchh University
Mundra Road, Bhuj - Kachchh.

Bachelor of Commerce

Semester-VI

CE 607 B: Statistical Method (Paper -X)(Only for External)

(With Effect from Academic Year 2013-14)

1. Objectives: Student should be familiar to the fundamentals of mathematical statistics and its applications.

2. Evaluation :

Evaluation pattern	
End Semester examination	70%
Mid-Semester examination	20%
Projects, assignments, quizzes, class participation	10%

3. Course Contents :

Module No.	Modules/ Sub Modules	Marks (%)
1	Estimation Theory: Property of estimator- consistency, unbiasedness, efficiency of estimator. Cramer-Rao Inequality(Statement only) method of maximum likely hood estimator. simple illustrations for distribution only.	25%
2	Interpolation and extrapolation: Meaning and scope for intrapolation and extrapolation, Understanding of the operators Δ and E . Newton's method, Lagrange's method and Binomial expansion method for interpolation and extrapolation.	25%
3	Large Sample Test: Idea of parameter and statistic, standard error of statistic, Level of significance. Large sample Test for attributes and variables-95% and 99%, confidence interval. Testing of (I) One mean (II) One proportion (III) Equality of Two mean and two proportion.	25%
4	Acceptance Sampling: Description of double sampling plan (DSP)OC function of DSP,(Statement only) and ASN,ATI, AOQ and AOQL for it (Only Statement). Numerical examples. description only of sequential sampling plan.	25%

5. Recommended & Suggested reference Books:

1. Statistical Method by S.P.Gupta
2. Business Mathematics and Business Statistics BY Sanchiti and Kapoor
3. Fundamental of Statistics - D. N. Elhauu Sultanchand & Newdelhi
4. Mathematical Statistics-Kapoor & Gupta S. Chand, New Delhi
5. આંકડાશાસ્ત્રીય ગુણવત્તા નિયંત્રણ- પ્રા. આર.ટી. રતાણી યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ

5. Structure of Course Examination

The external evaluation pattern would be based on the written examination taken at the end of the semester. The overall evaluation pattern is as under:

Evaluation pattern	
End Semester examination	70%
Mid-Semester examination	20%
Projects, assignments, quizzes, class participation	10%

Out of the 70% weight age of the external evaluation the style of the paper for all courses is so decided as to evaluate the students on different parameters. The format includes subjective, objective and applications questions so the test of students can be done on parameters like conceptual knowledge, its application in actual sense, his or her memory and presence of mind. The structure is as under:

6. Distribution of Marks :

Q.1	14 marks will have multiple choice questions based on the given units	14 Marks
Q.2	Answer two short questions OR Any one question which could be a long question, case study, application of concepts etc.	14 Marks
Q.3	Answer two short questions OR Any one question which could be a long question, case study, application of concepts etc.	14 Marks
Q.4	Answer two short questions OR Any one question which could be a long question, case study, application of concepts etc.	14 Marks
Q.5	Answer two short questions OR Any one question which could be a long question, case study, application of concepts etc.	14 Marks