Mission / Purpose

This class will provide the students with the quantitative concepts and techniques useful to business managers in making decisions and controlling business operations. Students will be exposed to realistic business problems and necessary computer programs such as Minitab that is used in solving these problems. They will also learn several methods that involve data collection, data analysis, hypothesis testing and statistical conclusion that will assist in decision making. This will enhance the student's critical thinking and assist them in understanding the application of statistics.

Student Learning Outcomes/Objectives, with Any Associations and Related Measures, Targets, Findings, and Action Plans

SLO 1: Communication Skills
By the end of this course students will gain statistical terms and concepts used to solve problems in real life application. Students will learn Statistical software to interpret data to solve business problems.

Communication Skills: Present quantitative information in relationship with a claim to be able to test it and provide reliable interpretations of the question. Students will write a paper which will be evaluated based on the rubric to assess the Core Curriculum Outcomes and communication skills.

Relevant Associations:
Standard Associations
New Core Component Areas
8 Mathematics (MA)

Related Measures

M 1: Communication Skills
Students will be evaluated and asked about statistical terms and concepts learned in this class. They need to be able to recognize when each term is used and provide example how is used in real life applications. A written paper will be required and will be scored based on a rubric developed to evaluate the Core Curriculum Outcomes and communication skills. The paper will have to include a clear explanation of the problems, methods used and interpretations of the results.

Source of Evidence: Writing exam to assure certain proficiency level
Target:
At least 65% of students will be scored at the Milestones (2 or 3 points) or Capstone (4 points) level in 2 of the 3 areas on the rubric. NOTE: The rubric is in the document storage.

SLO 2: Critical Thinking
Create and present a plan to motivate the students to interpret statistical results and make valid conclusion and prediction based on that. Students will apply statistical methods that involve data collection, analysis and interpretation of the results. This will enhance the student's critical thinking and assist them in understanding the application of statistics.

Related Measures

M 2: Critical Thinking
After Exam 2, students will have the opportunity to work in a real data set: analyze the data, apply statistical methods they learn in class and provide a report about their results and write a paper. The paper will be graded and I will make sure that students have provided accurate statistical descriptions of the results.

Source of Evidence: Project, either individual or group
Target:
At least 65% of students will be scored at the Milestones (2 or 3 points) or Capstone (4 points) level in 3 of the 4 areas on the rubric.

SLO 3: Quantitative Thinking
Upon completion of this course, the student will have the ability to think critically, communicate several quantitative concepts, and apply statistical methods. Students will apply quantitative methods to analyze and solve real-world problems. Students will develop quantitative information in relationship with a claim to be able to test it and provide reliable interpretations of the question.

Related Measures

M 3: Quantitative Thinking
Each week, the students will be assigned Assignments that involve some problems that involve computations, critical thinking. Students will provide solutions and reasons why they have used that specific method and they will need to provide interpretations of their results.

Source of Evidence: Written assignment(s), usually scored by a rubric

**Target:**

At least 65% of students will be scored at the Milestones (2 or 3 points) or Capstone (4 points) level in 2 of the 3 areas on the rubric.