	National University of Sciences and Technology
	Course Description

Course Title	Course Code	Credit Hours
Statistics for Design	**ME 836**	**3 – 0**

Textbook:

- "Probability and Statistics for Engineers and Scientists" by Ronald E. Walpole , Raymond H. Myers and Sharon L. Myers

- "Principles of Statistics for Engineers and Scientists" by William Navidi

Course Objective:

- This course will introduce statistics and its need for design engineers. Different data collection and statistical analysis techniques will enable the students to use statistics in their experimentation work.

Course Outline:

- Sampling and Descriptive Statistics, Summarizing Bivariate Data, Probability Commonly Used Distributions, Point and Interval Estimation for a Single Sample, Hypothesis Tests for a Single Sample, Inferences for Two Samples, Inference in Linear Models, Factorial Experiments, Statistical Quality Control

ASSESSMENTS

Description	Percentage Weightage (%)
Assignments	05-10%
Quizzes	10-15%
Mid Semester Exams	30-40%
End Semester Exam	40-50%