Course Syllabus

Course Code and Name	**IE 26322 – Engineering Statistics and Probability**
Credit and contact hours	**3 (2, 2, 0) (Lecture, Tutorial, Lab)**
Required or Elective	**Required**
Level / Year	**Level (6) / Year (3)**
Course Prerequisite	**MATH26211 Differentiation and Integration – 1**
Textbook	Applied Statistics and Probability for Engineers by D. C. Montgomery and G. C. Runger, 5th Edition, John Wiley & Sons, Inc., 2019.
Course Description	This course is designed to enable students to analyze the concepts of the presentation and analysis of data, measures of central tendency, measures of dispersion, probability theory, discrete and continuous statistical distributions, sampling methods, testing hypotheses, goodness of fit tests, correlation coefficients, and regression analysis.
Brief List of Topics to be Covered	1- The Role of Statistics in Engineering 2- Probability Theory. 3- Discrete Random Variables and Probability Distributions 4- Continuous Random Variables and Probability Distributions 5- Random Sampling and Data Description 6- Statistical Intervals for a Single Sample 7- Tests of Hypotheses for a Single Sample 8- Simple Linear Regression and Correlation
Course is prerequisite for	-