1. Overview

Probability and statistics are being taught in all the departments within the college of engineering. Even though there are variations in the topics being emphasized in different disciplines, there is considerable synergy existing among all these department specific statistics courses. It will therefore be possible to offer an interdisciplinary course that will address the needs of all UG students in the college of engineering. The general curricular needs will be met through common lectures. Discipline specific needs will be met through recitations. These lecture materials have been prepared with this vision.

The lecture notes cover a number of sections devoted to those topics that are of common interest to students in all disciplines. Examples and exercises have been provided in each of these sections/chapters. The sections in the lecture notes include
- Probability
- Random variables
- Reliability
- Quality control
- Design of experiments
- Regression/correlation
- ANOVA and related topics
- Hypothesis testing

The course instruction will consist of 4 contact hours; two 1-hour lectures followed by a two-hour recitation/project session. The lecture classes will be common to all students, to be taught by one faculty member. The recitation/project sessions will be split according to their majors and will be taught by the faculty belonging to the different departments/majors. This format delivers traditional course material while maintaining the unique nature of the applications, examples, exercises etc. being major-centric.

Examination/Quiz

Examination will be in two parts:

Part 1: will be devoted to general concepts (Lecture material)
Part 2: Discipline specific