SEMESTER	*DEPARTMENT*	*COURSE TITLE*
Fourth	*General Engineering*	*Statistics and Probability*
COURSE CODE	*HOURS* 3	*COURSE SPECIFICATIONS*
EG401	*UNITS* 3	*Theoretical Contents*

1. *Statistics:*

➢ Definitions of Statistics and their importance.

➢ Scope and Limitations.

➢ Sample and populations.

2. *Data:*

➢ Collection data.

➢ Classification of data.

➢ Tabulation and representation of data.

3. *Distributions:*

➢ Central tendency.

➢ Measures of central tendency.

➢ Median and means.

➢ Frequency distribution.

4. *Correlations and Regressions:*

➢ Normal approximation

➢ Simple and rank correlations.

➢ Simple regression.

5. *Probability:*

➢ Permutations and sample points, combinations.

➢ Sample space.

➢ Law of probability.

➢ Marginal and conditional probability.

➢ Random variable.

➢ Bernoulli.

➢ Binomial.

➢ Poison distributions.

References:

1. Harold .J. Larson, ***Introduction to Probability***, Wesley publishing company, 1995.

2. الدكتور مواري. ر. شبيجل ,   , الدار الدولية للنشر والتوزيع , 1988