

Stage: Second Year - Second Semester

Subject: Probability Theory

- 1- Introduction
 - Conditional probability
- 2- Multiplication theorem for Conditional probability
- 3- Finite Stochastic process and Tree Diagram
- 4- Independence
- 5- Bayes Law
 - Bayes theorem
- 6-Problems
- 7- Introduction
 - Random variable
 - Cumulative Distribution Function
- 8- Independent Random variable
 - Expectation of Random variable
- 9- Moments
 - Moment generating functions
- 10-Problems
- 11- Bernoulli Distribution
 - Binomial Distribution
- 12- Poisson Distribution
 - Geometric Distribution
- 13- Negative Binomial Distribution
- 14-Problems
- 15- Uniform Distribution
 - Normal Distribution