

CSE-221 PROBABILITY AND QUEUEING THEORY

Permutations, combinations, counting, summation, generating function, recurrence relations, asymptotic. Sample space and events- Probability- The axioms of probability- Some Elementary theorems- Conditional probability- Baye's theorem- Random variable- Discrete and continuous- Distribution- Distribution function, Distribution, Binomial and poison distribution Normal distribution- related properties.

Queueing theory- Classification, stationary process, markov process, Binomial process, Poisson process, Birth and death process, Markov chain.

References:

1. Probability and Statistics with reliability, Queueing and Computer Science
Trivedi K.S.
2. Reliability Engineering Balagurusamy .E
3. Fundamental of Queueing Theory Gross D, and Harris C.M.
4. Probability Statistics and Queueing Theory Allen, A.O.