



B.Sc. (Statistics) SEMESTER- I

Paper 1 (Probability Theory)

Unit 1

Definition of probability: <https://youtu.be/Lqjbtn4RnFs?si=ecGH08MASNi4bR6->

Cramer and Kolmogorov's approaches to probability:
<https://youtu.be/nJmDdWofAgk?si=nh5xFpnjO1DGqjay>

Random experiment : <https://youtu.be/SnzUoLWeFkA?si=7oNoThV7U721NbNU>

Unit 2

Conditional probability :

<https://youtu.be/ADaxql883-M?si=b5S7Cm-fHNiv3oKx>

Bayes' theorem and its application :
https://youtu.be/Fv_LGQKgWi0?si=wyE93qSZXWRr6fx4

Chebyshev's inequality : <https://youtu.be/d5pnfFvggYk?si=X4QtuqRXM4vZio96>

Unit 3

Definition of discrete random variables :

<https://youtu.be/82Ad1orN-NA?si=K-a83s-oZGavhUqs>

Probability density function: <https://youtu.be/Xh7cTf2wJBs>

Expectations of a random variable and its properties: <https://youtu.be/kyiLWohp5tg>

Unit 4

Moments, measures of location : <https://youtu.be/lmw4JgxJTyg>

Skewness and kurtosis : <https://youtu.be/m9a6rg0tNSM>

Probability generating function : <https://youtu.be/m9a6rg0tNSM>