## Lecture-07: Generalized Expectations

## 1 Generalization of Expectation Operator

- 1.1 Expectation of functions of discrete random variables
- 1.2 Moments
- 1.2.1 Variance
- 1.2.2 *K*-th order moments
- 1.2.3 Central moments
- 1.3 Linearity of expectation for discrete random variables
- 1.4 Correlation