Lecture Note 1: Peremeters & Estimators Population parameters: properties of rand. vars. X. Mx=E(X) = = U(X) Statistics: properties of samples Sample Nobs of RUX: X., Xz, ..., XN "i'd" - independent and identically distributed "Estimators" are statistics that approximate parameters

Greek letters for parameters: B, B
Greek letters w/ hats for estimatos: B, B

Desirable properties for 6: (Unbiaselness: E[B]=B ② Consistency: as N→∞, Pr(16-01>E)→0 for any E B P B B Efficiency: B has smallest possible VCB)

B has a distribution

-> V(X) -> std. dev. of X = \(\sux^2\)

-> V[ô] -> std. error of ô = JV(ô)

"Variance"