

Date:	
(Page	No.

Sampling Properties. B, É

Cov(E)252 I

E[€-0)(€-0)]

Dates (Page No. 2021 (2/2) 2/2 (2/2) = 02 (2/2) E(B)=B , Cov(B) = 02(22) $E(\hat{\epsilon})$, $Cov(\hat{\epsilon}) = \sigma^2(1-H)$ E= (7-H)Y=(9-H)(XB+E) (ZB+E) = (7-7(2/2) 2/2)B+(7-H)E = 0 + (I-H) E E(ê)= 0 5 Cov(Ê) = Cov(I-H)Y = (1-H) -2 I (I-H) = -2 (T-H) Band & are uncorrelated Gaus least square theorem OLS is BLUE Best linear unbiased estimate B2C4 Bu 2 Cigi + Crys + -- + cnyn

Date:	
Page	No.

	Page No.
	Variance of B is minium among all other blinear estimators.
1	runa estimators.
,	
· Mili	
,	