SESSION 6 OF STATISTICS FOR BUSNESS

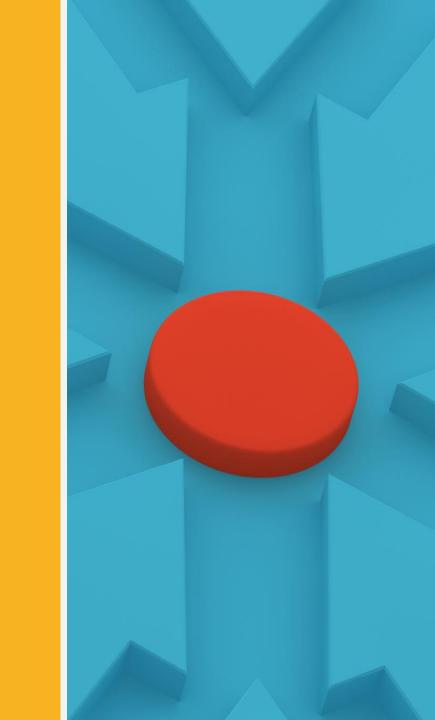
DR. SURESH KUMAR GADI UNIVERSIDAD DE LAS AMÉRICAS PUEBLA



TODAY'S TOPIC

INTERVAL ESTIMATE

NORMAL DISTRIBUTION



STANDARDIZATION



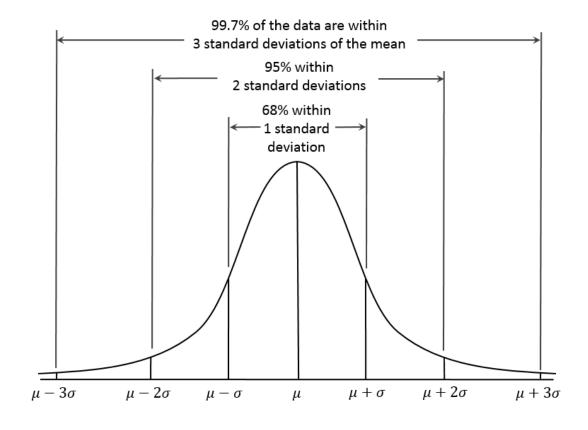
Z-SCORE

STANDARD ERROR

$$\sigma_{\overline{x}} = \frac{o}{\sqrt{n}}$$

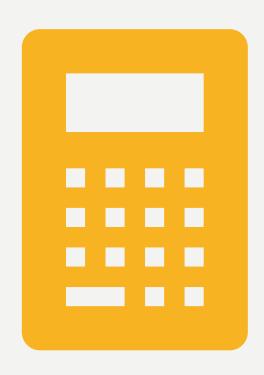
MARGIN ERROR

$$MOE_{\gamma} = z_{\gamma} \sqrt{\frac{\sigma^2}{n}}$$

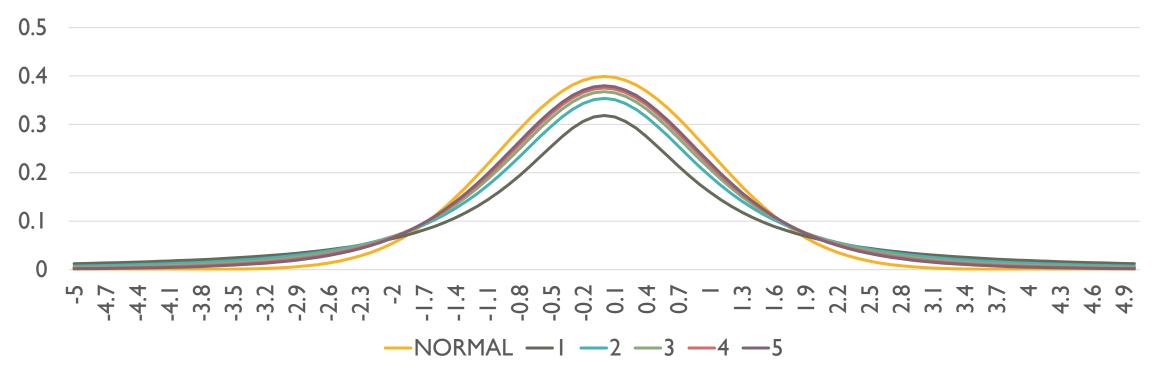


INTERVAL ESTIMATE

$$\bar{x} \pm MOE_{\gamma}$$







STUDENT'S T-DISTRIBUTION

POPULATION PORTION

Standard error

$$\sigma_{\bar{p}} = \sqrt{\frac{p(1-p)}{n}}$$

Margin of error

$$z_{\gamma}\sqrt{\frac{\bar{p}(1-\bar{p})}{n}}$$

Interval estimate

$$\bar{p} \pm z_{\gamma} \sqrt{\frac{\bar{p}(1-\bar{p})}{n}}$$





THANK YOU