

CHHATRAPATI SHAHU JI MAHARAJ UNIVERSITY, KANPUR, UP

M.Ed. III Semester

2022 – 23

Paper – 3rd

Measurement, Evaluation and Statistics in Education (MED 303)

Topic – Understanding Normal Probability Curve



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Facts

Firstly Introduced by Abraham de Moivre

Practically Used by Pierre Simon

Carl Freidrich Gauss popularly associated with NPC

Meaning & Concept

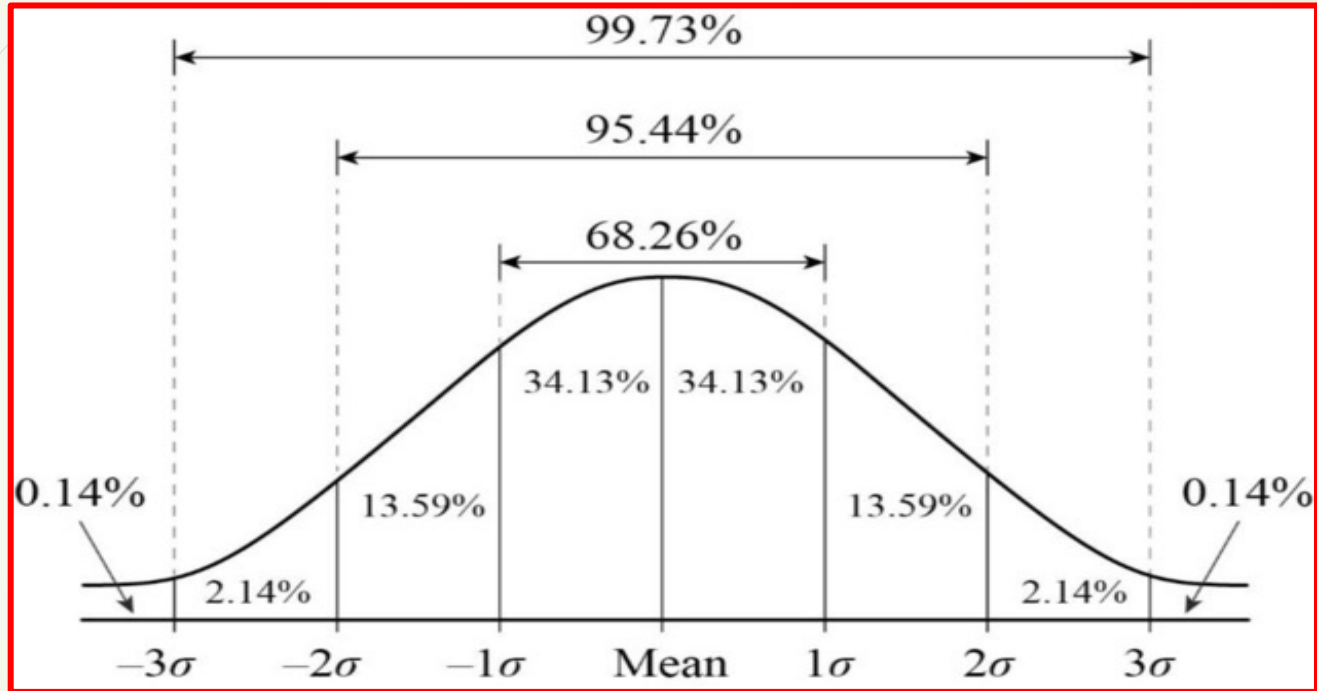
Normal Probability Curve

A Theoretical &
Mathematical Curve

Also known as Gaussian
Curve

Binomial Distribution

Conceptual Elaboration



*Image Source: <https://www.chegg.com/homework-help/definitions/normal-curve-31>



Conceptual Inferences

- -3σ to $+3\sigma = 99.73\%$ Cases
- -2σ to $+2\sigma = 95.44\%$ Cases
- -1σ to $+1\sigma = 68.26\%$ Cases
- Symmetrical Curve
- Bell Shaped

References

Books:

Gupta, S. P. (2011). *Modern Measurement & Evaluation*. Prayagraj: Sharda Pustak Bhavan

Best, J. &. (2011). *Research in Education*. New Delhi: PHI Learning Pvt. Ltd.

Creswell, J.W. (2017). *An Introduction to Educational Research*, London: Sage

Donald Ary, L. C. (2016). *Introduction to Research in Education*. U.K.: Wadsworth Cengage Learning

James Arthur, M. W. (2013). *Research Methods and Methodologies in Education*. London: Sage Publications

Weblinks:

<https://www.chegg.com/homework-help/definitions/normal-curve-31>