

## Research, Innovations and Extension

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Mr. G. T. Sanap has presented a paper in 9<sup>th</sup> International conference on RECENT ADVANCES IN SCIENCE(ICRAS-2025). Topic of presentation was “Study of q-Binomial formula and It’s properties” held on 6<sup>th</sup> -7<sup>th</sup> March 2025 Invertis University, Bareilly (UP). India



### Study of q-Binomial formula and It's properties

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q – analogue of an integer;  
q – analogue of factorial;  
q – analogue of (x-a)<sup>n</sup>;  
q-Binomial coefficient.

#### ABS TRACT

In this paper, we have introduced the definition of q-binomial and some properties. The theme of this paper is to give introductory study of Gaussian q- binomial formula, q-Taylor's formula is useful for finding properties of binomial coefficients.