



CLUSTER INNOVATION CENTRE  
(UNIVERSITY OF DELHI)  
M.Sc. (Mathematics Education)  
*A Joint Degree under the Meta University Concept by*  
University of Delhi & Jamia Millia Islamia



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**A CORRELATIONAL STUDY OF STUDENTS’  
LOGICAL-MATHEMATICAL REASONING ABILITY AND  
MATHEMATICAL REASONING ABILITY.**

*(A research dissertation submitted at Cluster Innovation Centre, University of Delhi)*

**Abstract**

*This study delves into the correlation between logico-mathematical reasoning ability and mathematical reasoning ability within the demographic of high school students. Employing a correlational research design, the study sought to meticulously scrutinize the magnitude and orientation of the connection between these two pivotal variables. The outcomes of the analysis unveiled a notably substantial positive association between logico-mathematical reasoning ability and mathematical reasoning ability. This study sheds light on the critical significance of logico-mathematical reasoning ability in the domain of mathematical reasoning ability, thereby emphasizing the imperative nature for educators to prioritize cultivating and enhancing these cognitive skills among students. The implications derived from these findings are profound for the field of mathematics education, as they advocate for the integration of activities and pedagogical techniques tailored to foster logico-mathematical reasoning skills, consequently leading to a marked enhancement in students' proficiency in mathematical reasoning.*

by  
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