



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



Enhancing Numerical Problem-Solving Skills at Secondary-Grade Levels through Vedic Mathematics Algorithms

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

Abstract

This research is based on finding methods of Vedic Mathematics to solve arithmetic numerical problems. It has been observed that mathematics especially when it becomes abstract in higher classes is difficult for the students. This study defines an alternative approach to teaching mathematics using sutras. The study investigated four sutras and their implications to arithmetic numerical problems. The study also tries to find out the errors and Proficiency done by the students in solving arithmetic numerical problems. The study followed pre-test and post-test methods to check the effectiveness of the Vedic mathematics. An instructional manual was made on the four Vedic sutras and classroom teaching is done using an instructional manual as a teaching aid for the students. It was found that Vedic mathematics is not only effective in teaching but also a way to connect to Indian Culture.

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