



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



**A CASE STUDY TO INVESTIGATE THE ISSUES AND CHALLENGES FACED BY
VISUALLY IMPAIRED STUDENTS IN DEALING WITH STATISTICAL
CONCEPTS AT MIDDLE GRADE**

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

Abstract

As per recently launched National Education Policy (NEP) and RPWD act recommendations include nondiscrimination in schools, accessible infrastructure, adequate accommodations, customized services, the use of Braille and Indian Sign language in the classroom, and monitoring for children with disabilities.

This research is about exploring issues and challenges faced by visually impaired students in middle grade. For this study a descriptive research method was used, having a case study approach. Classroom observations and interviews were conducted with visually impaired students. As a result, it was found that there are a lot of issues and challenges which are dealt with by visually impaired learners in learning statistical concepts such as calculating, organizing a large amount of data, interpreting, and visualization data difficulties faced by problems based on real-life application, identifying a different graph, trouble in aligning a number.

It was also explore existing resources to facilitate visualization of statistical concepts by visually impaired students such as Standard laptop or tablet, BlindMath and Blind R, Tactile Graphics, and Abacus which is used to teach visually impaired students effectively, these tools help to visualize the graph, interpretation of data and also helps to organize a large amount of data.

This research helps in creating new academic courses and training programs for teachers to educate visually impaired students on statistical concepts.

by

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2021-2023