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# **EMPOWERING INDEPENDENT LEARNING THROUGH ASSISTIVE TECHNOLOGY: A QUANTITATIVE STUDY ON ITS IMPACT FOR STUDENTS WITH DISABILITIES**

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## **BACKGROUND**

The integration of assistive technologies in educational settings offers a promising avenue to enhance the learning experience for students with disabilities. These technologies, including voice recognition software, screen readers, and customizable learning management systems (LMS), have the potential to promote autonomy and engagement by accommodating diverse learning needs. This research will evaluate the effectiveness of these assistive technologies in supporting independent learning among these students.

## **RESEARCH AIM**

The research aims to assess the usage and accessibility of assistive technologies in GBS, quantify their impact on students with disabilities, and identify the most effective technologies for enhancing learning outcomes.

## **METHODS**

The study will involve surveys and performance metrics analysis among students with disabilities across various campuses of GBS. Statistical methods, including regression analysis and t-tests, will be employed to analyse the data.

## **RESULTS**

Expected findings include detailed insights into assistive technology usage patterns and quantitative

evidence of their impact on independent learning and academic performance. Recommendations for effective assistive technologies will be provided.

**CONCLUSION**

This research is expected to offer empirical evidence on the role of assistive technologies in supporting independent learning for students with disabilities, guiding educational institutions towards creating more inclusive environments.

**KEYWORDS**

Assistive technology, independent learning, students with disabilities, educational accessibility, quantitative study