

# Chapter 14

## Effectiveness of Computer-Managed Instruction on Students' Performance in Tertiary Institutions

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### ABSTRACT

*The roles of information technology in the contemporary world cannot be over-emphasized considering its enormous usage in the educational sector. This chapter investigates the effectiveness of computer-managed instruction (CMI) on students' performance in tertiary institutions in the North-Central Geopolitical Zone of Nigeria. The control group was taught Computer Science using traditional lecture method (TLM) approach, and the experimental group was taught using CMI approach. A total of 360 students in colleges of education (COE), polytechnic, and university participated in the study by using multi-stage sampling procedures. The null hypotheses were tested using ANCOVA and ANOVA statistical analyses at 0.05 level of significance. Findings revealed that there was a statistical difference in the performance scores of students using CMI and TLM approaches. There was also a statistical difference between private and public tertiary institution students' performance. Additionally, the students from the university had the highest mean when compared with students from COE and polytechnics.*