E-Learning Platforms in Agricultural Training Programmes for Rural Women in Uganda's Semi-Arid Areas: A Comparative Study

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Abstract

The study explores the effectiveness of e-learning platforms in agricultural training programmes for rural women in semi-arid regions of Uganda, focusing on improving food security and economic empowerment. Participants were randomly assigned to one of two groups: Group A using Platform X and Group B using Platform Y. Data was collected through pre- and post-training assessments, including self-reported satisfaction surveys and performance metrics. Group X demonstrated a statistically significant $text\{mean\,increase \in knowledge\,score\} = (12 \pm 3)¿$ over Group Y ($p < 0.05$, 95% confidence interval). E-learning platforms have the potential to enhance agricultural training for rural women, with Platform X showing superior performance. Further research should investigate long-term effects and scalability of e-learning in similar contexts.

Keywords: *African Geography, Geographic Information Systems (GIS), Participatory Action Research, Rural Development Studies, Distance Education Theory*

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