

## **Modular Distance Learning and the Academic Performance of Junior High School in General Science Towards the Development of a Learning Guide**

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### **Abstract**

This study aimed to determine the extent of the use of modular distance learning and the level of academic performance of Grade 8 students in General Science and their relationship. Additionally, the study sought to propose an enhanced learning model to improve the overall learning outcomes of JHS students in the subject. The study utilized a descriptive-correlations design, which involved 220 Grade 8 students through simple random sampling from selected secondary schools of the Matalam Cluster of the Cotabato Division. They participated in a survey using a two-part questionnaire. The questionnaire assessed their perceptions of modular distance learning in terms of system quality, information quality, and self-efficacy. The academic performance of the students in General Science was also considered. The findings revealed that the students positively perceived variables such as system quality, information quality, and self-efficacy. It showed that the lowest mean was system quality, with a mean of 3.50 and a standard deviation of 0.547, with a high interpretation, while the information quality had a mean of 3.62 and a standard deviation of 0.567, and the highest mean was the self-efficacy with a mean of 3.62 and a standard deviation of 0.567. The findings indicated that the students generally had a positive perception of modular distance learning, with moderate to high agreement regarding system quality, information quality, and self-efficacy. The overall extent of use of modular distance learning was perceived favorably. Furthermore, the student's academic performance in General Science was satisfactory. However, a correlational analysis revealed a negligible relationship between the extent of the use of modular distance learning and academic performance. Despite this limited correlation, modular distance learning remains a viable approach, as it positively influences students' perceptions and contributes to satisfactory academic outcomes.

*Keywords: Modular Distance learning, Academic performance, Learning Guide, Quantitative study, Descriptive Correlational, Philippines, Municipality of Matalam*