

ABSTRACT

ROSIT, KHITTERINE FEL L. Davao del Sur State College, Institute of Teacher Education, Bachelor of Technology and Livelihood Education major in Home Economics, Mati, Digos City, March 2024. **"ACCEPTABILITY LEVEL OF BANANA (*Musa balbisiana*) AND CALAMANSI (*Citrus microcarpa*) PEELS AS ALTERNATIVE FLOORWAX"** Undergraduate Thesis.

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The objective of the study was to determine the acceptability-level of Davao del Sur State College's Banana (*Musa balbisiana*) peels and Calamansi (*Citrus microcarpa*) peels as alternative floor wax. It was an invention product that could be further recycled into an item of excellent quality that would be valuable to families in terms of appearance, color, odor, slip-resistance and water-resistance. This research comprises five treatments and will have thirty participants. Demonstration of product innovation and a use of complete randomized design and a survey questionnaire with a predetermined rating scale using a Likert Scale of 1.00 to 5.00 was used to collect the data. The results of a descriptive-comparative research approach and analysis of variance (ANOVA) revealed that banana (cardava) and calamansi peels were more acceptable and treatment 3 had the highest mean and verbal description of being the most acceptable and

valued by the respondents. Therefore, Treatment 3 is the best as it most acceptable than the control group in terms of the sensory characteristics conducted appearance, color, odor, slip-resistance and water-resistance. As a result, it may be improved and adapted for commercialization, thereby rendering it more appealing to buyers. Innovations and development of banana and calamansi peels as alternative floor wax are highly encouraged. It was recommended to use proper and accurate textile or fabric of rag in applying this alternative floor wax, and it was suggested, which is considered a major issue for environmental and green ecology, that this waste is dumped in landfills, contributing to pollution problems and environmental issues. Finding solutions to the world, particularly the Philippines, environmental problems as a result, this is the crucial initial step in resolving it.

Keywords: *Floor wax, Banana Peels, Calamansi Peels, Technology and Livelihood Education, Davao del Sur State College*

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AND CALAMANSI (*Citrus microcarpa*) PEELS AS
ALTERNATIVE FLOOR WAX**

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