



Study Of Students Perception in Terms of Ease of Use While Using Kira Kos App Calculator Among Kolej Komuniti Bagan Serai Semester 1 Students for Session I 2023/2024

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Abstract

Kira Kos calculator app is an automatic web-based calculator application that has been developed by lecturers of Food Processing Technology unit at Kolej Komuniti Bagan Serai (KKBSe). This study was conducted to identify the perception of the use of Kira Kos calculator app in SPK10044 Pemprosesan Hasil Ikan dan Hasil Laut course for semester 1 students in KKBSe based on Kira Kos criteria that is easy to use and user friendly. A total of 29 respondents who answered the questionnaire and data were analyzed using Microsoft Excel and Minitab Software to obtain mean scores and t test results. The results show that the level of perception of participants in terms of ease of use while using Kira Kos app is high with a mean of 4.65. There is no significant perception difference between two classes of SPK 1A and SPK 1B since the value of P is equal 0.221 which is greater than 0.05. this indicates the perception is not influenced by classes diversion. The results also show the result is not influenced by gender since there are no significant difference between male and female student's perception since the P value is 0.270 which is greater than 0.05.

Keywords: - Kira Kos app, costing, calculator

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1. Introduction

Kolej Komuniti Bagan Serai (KKBSe) is one of the higher education institutes in Malaysia that offers Certification Of Food Processing Technology program (SPK). Every SPK students need to complete and pass 62 credit hours courses. Many of the courses required students to prepare and process food products based on the program requirements. SPK students are also required to write a report based on the food product created. One of the elements inside the report is to calculate food cost.

The Kira Kos calculator app was developed by lecturers of Food Processing Technology unit at KKBSe. The application is based on web-based application which can be accessed anywhere if internet connection is accessible. The application was created to ease the SPK students

especially for the semester 1 students. Most of the new students have difficulties in preparing food cost counting records in their assignments.

This study was conducted to interpret the perception of the SPK semester 1 students when using the application in the term of ease of use. Based on previous study, it shows gender, and socio-economic factors are the possible reasons for the different levels of computer and technology literacy in Malaysia. Therefore, a study is conducted to interpret whether the Kira Kos app is easy to use among the semester 1 students and is there any possibilities of gender factor affecting the interpretation.

2. Problem Statement

Kira Kos calculator apps was recently created at the end of 2023 and was pilot tested among new students in session I 2023/2024. This study was conducted to identify the perception of the students and to identify is there any gender and diversion of the classes causing significant interpretation results among students according to the ease of the use of the Kira Kos app. The term of ease of use is focused specifically on the ease of access for students to get the apps and the ease of using the app among the students. This study will help to improve the app by discovering any improvement needed for the app in the future. This study also focused on if there is any gender factor that will affecting the perception among the students.

3. Objective

1. Identifying the mean score interpretation of SPK semester 1 students towards the ease of using the Kira Kos application during SPK 10044 Pemprosesan Hasil Ikan dan Hasil Laut class at KKBS.
2. Analyzing is there any significant factor in term of the ease of use when using Kira Kos app between two semester 1 classes (SPK1A & SPK1B) at KKBS.
3. Analyzing is there any significant gender factor in term of the ease of use when using Kira Kos app among semester 1 students at KKBS.

4. Literature Review

With the integration of mobile devices into learning and teaching activities, the concept of "Mobile learning" has emerged, and various definitions exist in literature (Crompton, 2013). According to Quinn (2000), mobile learning refers to e-learning conducted through mobile devices. The definition of mobile learning evolves over time, influenced by emerging technologies. McQuiggan et al. (2015) describe mobile learning as instantaneous and optionally accessible learning, occurring anywhere and anytime, which facilitates knowledge creation, satisfies curiosity, promotes collaboration, and enriches experiences.

In the digital age, mobile devices are widely utilized. Social network sites, integral to Web 2.0 technologies, promote the acceptance of mobile devices among teachers and students. The educational use of mobile devices both inside and outside the classroom helps foster positive attitudes towards courses (Özdamar Keskin, 2011). Mobile learning enhances students' interest and motivation (Ozan, 2013) and encourages their participation in learning activities. Consequently, mobile devices may become essential tools for both students and educators (Yılmaz & Akpinar, 2011).

Mobile learning apps have become transformative in the educational landscape, particularly for college students. These apps offer flexibility, allowing students to study at their convenience, whether during commutes or breaks

between classes. Instead of being confined to traditional classroom settings and rigid schedules, students can engage with study materials more fluidly. Al-Emran et al. (2019) found that the use of mobile learning apps positively influences students' attitudes towards learning, enhancing their engagement with educational content. In addition to flexibility, these apps often include interactive features like quizzes, flashcards, and real-time feedback, facilitating active learning. Active learning techniques have been proven to be more effective than passive methods such as simply reading or listening to lectures. A study by Nguyen & Ikeda (2020) highlighted that the interactive features of mobile apps significantly improve the academic performance of college students. Moreover, these apps provide immediate access to a wide range of resources, from e-books to research articles, enhancing the depth and breadth of knowledge acquisition.

5. Methodology

This study uses a questionnaire on semester 1 Food Processing Technology students at Kolej Komuniti Bagan Serai. Microsoft Excel and Minitab Software is used to analyze the data. It is done to make the systematic review and its journey more directed toward achieving the study's objectives.

6. Result & Discussion

6.1 KKBS Semester 1 Students (Session I 2023/2024) Perception in Terms of Ease of Using Kira Kos App

The process of analyzing the data obtained through student's responds is interpreted by using interpretation of mean scores. The table of mean score measurement levels is summarized in Table 1.

Table 1. Mean score for students' perception in terms of ease of using Kira Kos app

Mean Score	Mean Score Interpretation
1.00 – 2.00	Very Low
2.01 – 3.00	Low
3.01 – 4.00	High
4.01 – 5.00	Very High

Based on the data obtained, the results as shown in Table 2 below.

Table 2. Mean score for students' perception in terms of ease of using Kira Kos app

N	Mean	Standard Deviation
29	4.655	0.553

The result shows the mean value is 4.655. This indicates that a total of 29 students mean scores interpretation is between 4.01-5.00 which is interpreted as very high in the mean score interpretation.

6.2 The Differences of Perception in Terms of Ease of Using Kira Kos App Among KKBSemester 1 Classes (Session I 2023/2024)

A total of 29 respondents are divided into 2 semester 1 classes which are SPK1A and SPK1B. T-test method is used to analyze is there any significant difference between both classes in terms of ease of use during using Kira Kos app. The results as shown in Table 3.

Table 3. Mean score for students' perception in terms of ease of using Kira Kos app

Class	N	Mean	StDev	SE Mean
SPK 1B	14	4.786	0.426	0.11
SPK 1A	15	4.533	0.640	0.17

T-Value	DF	P-Value
1.26	24	0.221

Based on the test, the results show the P value is 0.221. This shows that P value is greater than 0.05. Thus, this shows that there is no significant difference between SPK 1A class and SPK 1B class perception in terms of ease of use while using Kira Kos app.

6.3 The Differences of Perception in Terms of Ease of Using Kira Kos App Among KKBSemester 1 (Session I 2023/2024) According to Gender

The total of 29 respondent are divided into 20 female and 9 male respondents. The T-test method is used to analyze whether there is significant difference between male and female students' perception in term of ease of use while using Kira Kos app. The results as shown in Table 4.

Table 4. T-test results for male and female students' perception in terms of ease of use while using Kira Kos app

Gender	N	Mean	StDev	SE Mean
Female	20	4.750	0.444	0.099
Male	9	4.444	0.726	0.24

T-Value	DF	P-Value
1.17	10	0.270

Based on the test, the results show the P value is 0.270. This shows that P value is greater than 0.05. Thus, this shows that there is no significant difference between male and female students' perception in term of ease of use while using Kira Kos app.

7. Conclusion

This study shows the perception level in terms of ease of use while using Kira Kos app among semester 1 KKBSemester students is very high. This proves that the app is easy to use

and can easily be understood among semester 1 students in KKBSemester. The study also concludes that there is no class division factor that resulted in different perception while using the apps. All students from different SPK 1A and SPK 1B classes have the same perception in terms of ease of use while using the Kira Kos app. The study also shows that gender factor does not result in different perception as the result shows there is no significant difference between male and female students' perception while using the Kira Kos app. The finding will help to indicate the readiness of the Kira Kos app to be used by larger group of students in the future. This study helps to determine the Kira Kos app can be used by Kolej Komuniti Malaysia students soon.

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