PROCEEDINGS OF JOHOR INTERNATIONAL INNOVATION INVENTION COMPETITION AND SYMPOSIUM 2024 (JIIICaS 2024)

"Flourish and Nurturing Sustainable Innovation for a Prosperous Nation"

JOHOR INTERNATIONAL INNOVATION, INVENTION COMPETITION AND SYMPOSIUM

Editorial Board

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Preface

In the name of Allah, the Almighty who gives us the enlightenment, the truth, the knowledge and with regards to Prophet Muhammad (peace be upon him) for guiding us to the straight path. We thank to Allah for giving us guidance and strength to write this e-book.

This e-book compiles the extended abstracts that submitted to Johor International Innovation Invention Competition and Symposium 2024 (JIIICaS2024), where JIIICaS2024 is a virtual platform for all creative minds to share and present their invention and innovation. Each abstract gives a brief background on the innovation or project.

We hope that this e-book will help the readers to get to know the innovation done by the students and get some ideas to develop future innovation products.

Foreword Rector

Assalamualaikum warahmatullahi Wabarakatuh, Salam Sejahtera, Salam Malaysia MADANI and Salam UiTM Dihatiku.

In the name of Allah, the Most Gracious, the Most Merciful.

It is a great honor to welcome you to the Johor International Innovation, Invention, Competition, and Symposium 2024 (JIIICaS 2024). This event connects various disciplines, focusing on education and engaging educators, students, researchers, and innovators from all walks of life.

Innovation is not just about ideas; it demands perseverance, creativity, and determination to turn those ideas into reality. The remarkable projects showcased today highlight the dedication and spirit of all participants. Initiatives like this not only explore new technologies but also cultivate skills and leadership among our youth. At Universiti Teknologi MARA (UiTM) Johor Branch, we are fully committed to fostering a dynamic culture of innovation, promoting the commercialization of new products, and encouraging meaningful collaborations with industry and society.

As we celebrate this event, I would like to extend my heartfelt gratitude to all sponsors, judges, the College of Computing, Informatics and Mathematics, UiTM Pasir Gudang Campus as the event organizer, as well as to the researchers and participants for their hard work in making this event a success. Let us continue striving for innovation and excellence. May the ideas presented today inspire us and lay the groundwork for future achievements.

Thank you.

Associate Professor Dr. Saunah Zainon
Rector
Universiti Teknologi MARA (UiTM)
Johor Branch

(A-PP020) EXPLORING FINANCIAL CHALLENGES AMONG UITM PASIR GUDANG STUDENT

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ABSTRACT

This report investigates the financial challenges faced by students at UiTM Pasir Gudang and the impact on their well-being and academic performance. Utilizing a survey distributed to 81 students, the study aims to analyze the students' monthly income, expenditure, financial habits, and the resulting stress. Key findings indicate that the majority of respondents are male (76.5%) and earn an average monthly income of RM376.66, with significant variability in spending patterns. Approximately 63 students save for emergencies, though many struggle to afford study fees and basic necessities, leading to sacrifices in physical health and increased anxiety. The study concludes that financial insecurity among students is prevalent, adversely affecting their mental and emotional well-being. Recommendations include enhancing financial aid, increasing food initiatives, and promoting budgeting skills to mitigate financial stress and support academic success

Keywords: Financial challenges, monthly income, academic performance

1.0 INTRODUCTION

Financial costs are one of the major problems that students will face at university. Students may also experience increased stress and anxiety due to financial problems, which can further impact their overall well-being and ability to focus on their studies. Therefore, students should manage their finances well so that the problem will not disturb them in the future.

Several important issues have contributed to the growing severity of the financial load facing students. Due to the increase in college and university tuition over the last few decades, which has outpaced both inflation and salary growth, many families now find higher education to be less accessible and affordable. In addition to tuition, living expenses for students are considerable and include food, rent, and transportation all of which are especially expensive in cities. Furthermore, the cost of necessary educational materials like software and textbooks can reach the hundreds of dollars per semester. Because of this, a lot of students need loans to pay for their education. Although these loans provide short-term financial respite, they frequently result in long-term debt, requiring graduates to repay them over years or even decades, which has a substantial negative influence on their career and financial security.

Students' academic performance, emotional health, and overall educational results are significantly impacted by financial stress. Many students struggle to keep up with their studies because they must work long hours to support themselves, which lowers their academic performance. Their quality of life and academic achievement are further jeopardized by this financial strain, which also worsens mental health conditions including stress, anxiety, and depression. Moreover, since students who are unable to pay for their education frequently abandon their studies, financial issues play a big role in the high dropout rates. This perpetuates a cycle of limited options and unstable finances by interfering with their schooling and having long-term detrimental effects on their earning potential and prospects.

The cost of education is rising and that will cause financial problems among students, many students work part-time to afford their education. This will be causing their grades due to lack of time and tiredness. Other than that, financial problems can lead to mental health problems like anxiety and depression. Thus, there are some scholarships and financial aid help but not all students can access these resources and some students may have had financial problems through to how they manage their allowance. In This study, we want to investigate how many students are facing financial problems among UITM Pasir Gudang students.

2.0 OBJECTIVE

The following are the overall objectives of this study:

- To identify how much allowance student get in a month
- To identify how much allowance student spent in a month
- To observe how and where there spent their allowance
- To study if they save their money for emergencies
- To study if they think financial problem can lead to anxiety

3.0 METHODOLOGY

3.1 Description of data

Population	The term population in this research refers to all UiTM Pasir Gudang students.
Sample	The sample for this survey is 81 students at UITM Pasir Gudang
Sampling Frame	List of student respondents who answered the question.
Sampling Technique	We choose Convenient Sampling Technique for our research because it is more efficient and flexible since it has a smaller sample size.

3.2 Method of data analysis

Table 1 : Summary of methodology Objectives

Summary of methodology Objectives	Variables	Methodology
1. To identify how much allowance student get in a month	Amount of money students earn per month	Ogive
2. To identify how much allowance student spent in a month	Amount of money students spend per month	Ogive
3. To observe where there spent their allowance	Where does student spend their money?	Barchart
4. To study if they save their money for emergencies	Student saving for future emergencies	Bar chart
5. To study satisfaction level of financial problem can lead to anxiety	Satisfaction level Financial problems can lead to mental health issues among students, such as depressions or anxiety.	Pie Chart

4.0 RESULTS

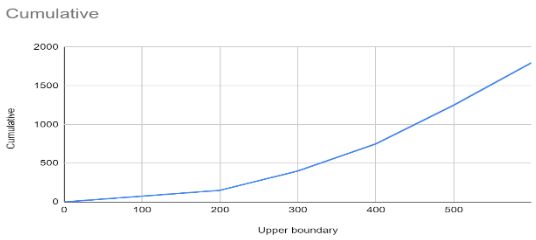


Figure 1 : Ogive of how much respondent get allowance per months

Based on Figure 1, there are 18 respondents who allowances are 300-399 while 17 respondents on 200-299. The highest allowances are 500-599 consist of 23 respondents which are the highest in the ogive while 10 respondents allowances 100-199 and 13 respondents respectively received 400-499 allowances per month.

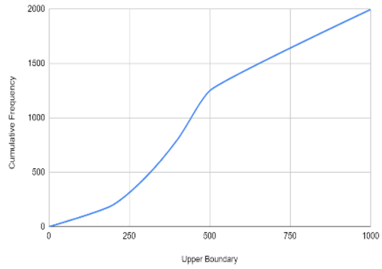


Figure 2 : Ogive of how much respondent expenses per months

Based on figure 2, most of the students spending their budget per month is RM199-RM299.Only 8 students spend their budget on RM500 and above.10 students are spending their budget on RM399-RM499.meanwhile 19 students and 17 students are spending their budget per month is RM100-RM199 and RM299-RM399.

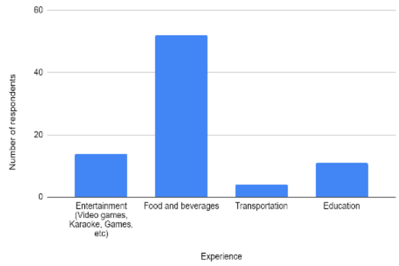


Figure 3 : of respondents most spent budget goes to

Based on figure 3.11, 52 students are spending their budget most on food and beverages, 14 students on entertainment, 11 students on education and 4 students on transportation.

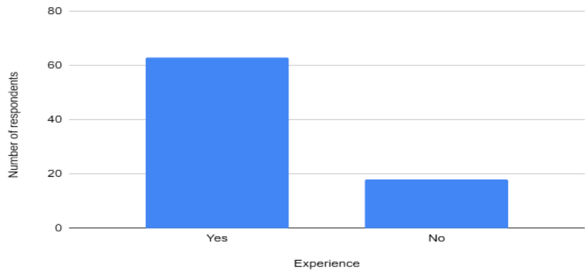
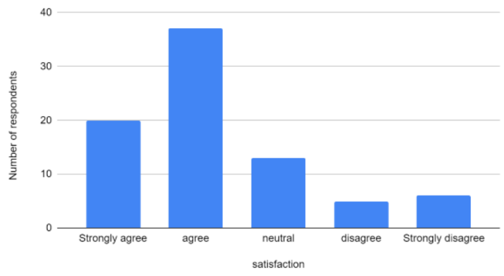


Figure 4 : consist of respondents saving on future emergency

Based on figure 4, there are 63 students answering yes while 18 students saying no for future emergencies saving.



Bar chart 3.16, shows that the respondent feel about financials problem can lead to mental health issue among students

Based on the figure 3.16, most of the respondents agreed with this statement above, which is 45.7 percent of the total 81 person. Only 5 person or 6.2 percent disagreed that financial problem could lead to mental health issue among students.

5.0 CONCLUSION

The study conducted at UiTM Pasir Gudang explored various aspects of students' financial challenges, including their monthly income, spending habits, expenditure categories, savings practices, and perceptions of financial stress.

Objective 1 revealed that the average monthly income among students is RM376.66, with a median of RM374.5. This indicates that half of the students earn more than RM300 per month, while the other half earn less, with the majority earning around RM374.5 per month. For Objective 2, the findings show that the majority of students spend between RM199 and RM299 per month, a range influenced by the monthly allowances they receive.

Objective 3 indicates that most students allocate a significant portion of their budget to food and beverages, a fundamental necessity for daily life. Regular meals are essential for maintaining energy levels, focus, and overall well-being, particularly when students are balancing academic, social, and work commitments. Objective 4 reveals that most students do save for future emergencies. This practice provides a financial safety net, offering peace of mind that funds are available if something unexpected occurs, thereby reducing anxiety about potential financial difficulties.

Lastly, Objective 5 addressed students' perceptions of financial problems and their potential impact on mental health. The majority of respondents agreed that financial issues can lead to anxiety, indicating widespread recognition of the connection between financial stress and mental well-being.

In conclusion, the study underscores the varied financial experiences of students at UiTM Pasir Gudang. It highlights the importance of financial literacy and planning, given the substantial portion of students concerned about financial stress and the need for emergency savings. These insights suggest a need for targeted financial education and support services to help students better manage their finances and reduce associated stress.