



اَبُو سَيِّدِي تَكْوَلُ لِي مَا اَنَا  
UNIVERSITI  
TEKNOLOGI  
MARA



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



*“Flourish and Nurturing Sustainable  
Innovation for a Prosperous Nation”*

# **Editorial Board**

## **Editors**

**NUR INTAN SYAFINAZ AHAMD**

**DR. HAJAH NORBAITI TUKIMAN**

**DR. NUR IDAYU ALIMON**

**AHMAD KHUDZAIRI KHALID**

**DR. MOHAMAD FAIZAL AB JABAL**

**DR. WAN MUNIRAH WAN MOHAMAD**

**DR. NUR SYAMILAH ARIFFIN**

**AZYAN YUSRA KAPI@KAHBI**

**NURHAZIRAH MOHAMAD YUNOS**

**NORZARINA JOHARI**

**AISHAH MAHAT**

**AZRINA SUHAIMI**

**HARSHIDA HASMY**

**DR. NG SET FOONG**

**FOO FONG YENG**

**Copyright © 2024 Universiti Teknologi MARA Cawangan Johor, Kampus Pasir Gudang, Jalan Purnama, Bandar Seri Alam, 81750 Masai Johor.**

**All extended abstracts published in this e-book have not been subject to JIIICaS2024 peer review or check. The authors are responsible for the contents of their extended abstracts and warrant that their extended abstract is original, has not been previously published, and has not been simultaneously submitted elsewhere. The views expressed in the abstracts in this publication are those of the individual authors and are not necessarily shared by the editor.**

**All rights reserved. No part of this publication may be reproduced in any form or by electronic or mechanical means, including information storage and retrieval systems, or transmitted in any form or by any means, without the prior permission in writing from the Course Coordinator of College of Computing, Informatics and Mathematics, Universiti Teknologi MARA Cawangan Johor, Kampus Pasir Gudang.**

**e ISBN: 978-967-0033-25-9**



**Published in Malaysia by  
Universiti Teknologi MARA Cawangan Johor  
Kampus Pasir Gudang  
81750 Masai**



## **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-PP024) INVESTIGATING SOCIAL CHALLENGES AT UITM PASIR GUDANG**

Muhammad Alif Fitri bin Roslan<sup>1</sup>, Muhammad Danish bin Abd Manan<sup>1</sup>, Mohamad Zulhilmi bin Ali<sup>1</sup>, Muhammad Izzazul Qayyim bin Iskandar<sup>1</sup>, Haikal Danial bin Zakaria<sup>1</sup>, Nur Intan Syafinaz binti Ahmad<sup>1</sup>

<sup>1</sup>Universiti Teknologi MARA, Johor Branch, Pasir Gudang Campus, Malaysia

Corresponding author: inasahmad85@gmail.com (Nur Intan Syafinaz binti Ahmad)

### **ABSTRACT**

The article discusses the serious concern of university student social issues, highlighting how these challenges impact academic progress and overall well-being. As students navigate higher education's complexities, they face numerous obstacles, including demanding academic standards, complex social dynamics, and increased freedom, which can lead to significant stress and anxiety. Additionally, peer pressure, social exclusion, discrimination, and bullying can create a hostile environment, undermining students' sense of community and belonging. Addressing these issues requires a collaborative effort from support services, instructors, students, and university administrations to cultivate a culture of empathy, inclusivity, and support. The article emphasizes that fostering a campus environment that prioritizes students' social and emotional wellness is crucial for their academic and personal success. The study's objectives are to identify the existence of social conditions, understand social life decisions, explore the relationship between physiological and safety aspects with others, assess the developmental social impact on students, and find solutions to social problems among students. By prioritizing these aspects, universities can help students overcome the challenges of college life and develop into resilient, capable, and successful individuals.

Keywords: social impact, academic progress, obstacles

### **1.0 INTRODUCTION**

An issue that affects a large number of individuals in a society and frequently calls for collective action to remedy is referred to as a social problem. Social problems depend on various types directly or indirectly. According to the latest issue, social problems are increasing especially among students due to various factors. Because of this, students need to be smart in dealing with social problems that happen to each other.

Here are some social problems that happen to students that cause them to feel disturbed to continue learning. The social problem that occurs is that students find it difficult to interact with other students. This is due to the fact that some students do less outdoor activities. Furthermore, social problems can cause instability in an organization. This is because students with social problems cannot convey their opinions through communication. Next, social problems occur resulting in students missing out on information if they don't dare to come face to face with people from the environment or lecturers. In addition, social problems make students easily depressed

and make their learning life gloomy. This is because the students do not interact with the outside world and only rely on social media entertainment.

The performance of students who experience social problems while in class is usually difficult to get concentration due to the internal problems faced. Most of them force themselves to study very hard, causing some of them to quickly become stressed. This is also closely related to the pressure of people in the environment such as families who expect good results to be obtained by students if they study hard and that forces themselves to continue chasing their dreams thus causing extreme pressure due to not having enough rest. Next, the worst effect that will hit students is that after experiencing the peak of stress while at university, they try to do things that can damage themselves and the future. For example, such as the culture of smoking cigarettes and even worse is suicide attempts. This is probably because in their view, in such a way they can get rid of the feeling of the hair in their head. Therefore, this research focusing on social challenges among student at UiTM Pasir Gudang.

## **2.0 OBJECTIVE**

The following are the overall objectives of this study:

- To identify the existence of a social condition
- To investigate satisfaction level on outdoor activities can help to overcome social problem
- To identify satisfaction level on environment sustainability are one of factor contribute to social problem
- To find the impact on individual quality of live

## **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 of this survey consists 100 students selected randomly from every state in Malaysia                                         |
| 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

| OBJECTIVE                                                                                                        | VARIABLES                                                                                            | METHODOLOGY |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------|
| To identify the existence of a social condition                                                                  | Contributing factors to the perpetuation of social condition                                         | Bar Chart   |
| To investigate satisfaction level on outdoor activities can help to overcome social problem                      | Satisfaction level on outdoor activities can help to overcome social problem                         | Bar Chart   |
| To identify satisfaction level on environmental sustainability<br>Are one of factor contribute to social problem | Satisfaction level on environmental sustainability<br>Are one of factor contribute to social problem | Bar Chart   |
| To find the impact on individual quality of live                                                                 | Impact on individual quality of live                                                                 | Bar Chart   |

### 4.0 RESULTS

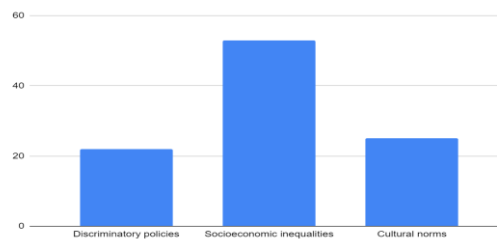


Figure 1 : Bar chart of contributing factors social condition

Based on the bar chart above, 53% of respondents chose socioeconomic inequalities as the highest contributing factor. The number of cultural norms is 25% followed by discriminatory policies with 22%.

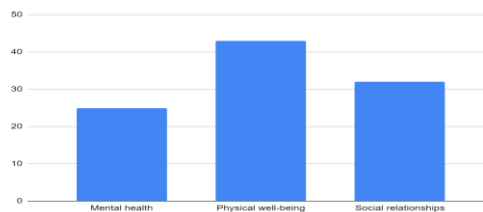


Figure 2 : Bar chart of social condition impact

Based on the bar chart above, as many as 43% of respondents chose physical well-being as the highest social condition impact. It followed by the number of social relationships with 32%.

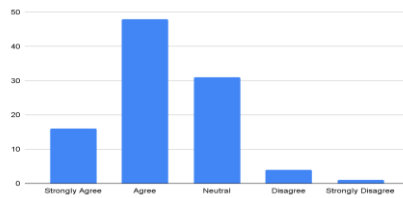


Figure 3 : Barchart of opinion about environment sustainability are factor social problem can be solve.

Based on Figure 3, most of people agree with this statement. The majority of respondent agree with this statement, making up 48% from 100% respondents. In the meantime, the number neutral responses is 31%. Followed by strongly agree 16%. And the last is strongly disagree, which is 1%.

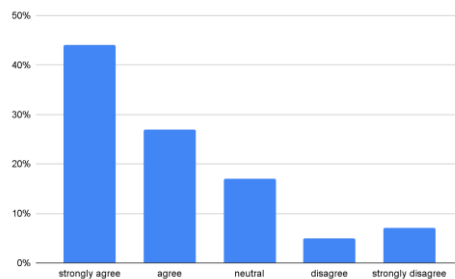


Figure 4 : Barchart of opinion outdoor activities can help to overcome social problem.

Based on the figure 4, majority of respondents are strongly agree outdoor activities can help to overcome social problem. With the largest number of respondents which is 44% followed by agree with 27% and neutral 17%. The last is disagree with 5%.

## 5.0 CONCLUSION

Based on first objective, 53% of respondents identified socioeconomic inequalities as the primary factor contributing to social issues. Cultural norms were cited by 25% of respondents, followed by discriminatory policies at 22%. Socioeconomic status significantly influences a student's health and well-being, which in turn affects academic performance. Students from low-income families often face poor nutrition, inadequate healthcare, and elevated stress and instability, all of which can hinder their ability to concentrate, learn, and perform well academically.

Next, the data reveals that 43% of respondents view physical well-being as the most impactful social condition. This is followed by social relationships at 32%. Health issues can adversely affect educational outcomes; students with chronic health problems may frequently miss school, struggle with concentration, and perform poorly academically, limiting their future opportunities and reinforcing cycles of poverty and social inequality.

In addition, 48% of respondents agree with the statement about the benefits of implementing sustainable practices in schools. Meanwhile, 31% were neutral, 16% strongly agreed, and 1% strongly disagreed. Incorporating sustainable practices, such as energy-efficient buildings, green spaces, and clean energy sources, can create a healthier learning environment. Improved air quality, natural lighting, and access to

nature can enhance students' physical and mental well-being, leading to better academic performance.

Lastly, majority of respondents strongly agree that outdoor activities can help address social problems, with 44% supporting this view. This is followed by 27% who agree and 17% who are neutral. Only 5% disagreed. Research indicates that students who engage in outdoor activities often achieve better academic results. The physical and mental health benefits, combined with improved cognitive skills, contribute to better focus, memory, and overall academic success.

In conclusion, addressing social challenges, along with implementing sustainable and outdoor initiatives, can significantly improve student outcomes and contribute to solving broader social problems.