



jsret.knpub.com

E-ISSN: 2962-6110
P-ISSN: 2964-7843

JSRET

Journal of Scientific Research, Education, and Technology

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Traffic Regulation Knowledge and Driving Safety Awareness in Students

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ABSTRACT

This research explores the impact of students' knowledge of traffic rules on their awareness and practice regarding driving safety. The primary objective was to assess whether a better understanding of traffic rules correlates with higher levels of safety conscious behavior among transportation students. This research was structured based on a quantitative approach using a survey distributed via Google Forms which displays a 20-item Likert scale questionnaire with 150 respondents. This survey aims to determine students' level of knowledge and their safety behavior in real-life scenarios. The participants were transportation students from the Road Transportation Safety Polytechnic selected to provide a representative sample of everyday passengers. Data analysis will use correlation and regression tests to identify significant relationships between level of knowledge and safety awareness. These findings are expected to explain the importance of including traffic rules education into the school curriculum as a preventive measure against traffic-related incidents. Insights from this study are intended to support policy recommendations, emphasizing early education regarding traffic rules to grow a safer and more responsible generation of young drivers.

Keywords: *Traffic regulation knowledge, Driving safety awareness, Transportation Education, Student commuters*

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INTRODUCTION

Road safety is important for all road users (Senthil V, G. D. (2020). with road accidents being one of the leading causes of injury and death, particularly among young drivers, Traffic microsimulation has a functional role in understanding the traffic performance on the road network (Raju Narayana, F. H. (2021). especially to identify the effect of understanding safe driving on aggressive driving behavior (Pahlevi Riza, C. R. (2023). Student transportation are expected to embody and advocate for safe driving behaviors. are expected to embody and advocate for safe driving behaviors. The Ministry of Transportation and educational institutions are actively seeking ways to improve traffic safety among young drivers, recognizing that informed and safety-conscious behavior on the road could be significantly influenced by knowledge of traffic regulations.

Due to this background, many road traffic safety campaigns are aimed at reducing

speeding among young drivers (Pešić Duško, P. D. (2022)). many young drivers continue to exhibit risky behaviors on the road, As such a literature review and synthesis of the literature regarding reward sensitivity in relation to risky driving, risky decision making, and risky health behaviour, with a focus on literature in which adolescents and young adults feature, is timely (Scott-Parker, B. L. (2017)).,which can often be attributed to gaps in their understanding of traffic rules. For transportation students many of whom regularly commute and will likely work in fields related to road safety and infrastructure this knowledge is crucial. However, limited emphasis on traffic regulation education within standard curricula could lead to gaps in both awareness and practice, ultimately impacting safety outcomes.

In an ideal scenario, young drivers would enter the road with a solid understanding of traffic regulations, translated into conscientious driving habits and a heightened sense of responsibility, that the professional drivers' understanding of the rule governing giving right of way to pedestrians was quite insufficient, even though, they had considerable confidence in their understanding of that rule (Gärling, A. C. (2015)).By incorporating traffic regulation education as a core component of transportation-related studies, institutions could contribute to cultivating a generation of drivers who are not only knowledgeable but also motivated to practice safe driving. Efficient traffic incident management is needed to alleviate the negative impact of traffic incidents (Zhu, W. J. (2021)).This would reduce traffic-related incidents, foster a culture of safety, and prepare transportation students to lead by example as they transition into professional roles within the sector. Several studies have investigated the link between knowledge of traffic regulations and driving behavior, knowledge about traffic regulations(Kim, S. J. (2017)) revealing a positive correlation between understanding road rules and safe driving practices. Research has shown that individuals with a higher awareness of traffic laws are more and safety measures to prevent the morbidity and mortality due to the accidents (GAÏRE, M. T. (2022)) likely to engage in safety-conscious behavior, such as obeying speed limits, using signals appropriately, and minimizing distractions while driving. Moreover, educational interventions have proven effective in enhancing traffic knowledge and, subsequently, improving safety attitudes and behaviors among young drivers.These findings support the notion that traffic regulation education could be a preventive measure, addressing safety challenges at an early stage and potentially reducing risky driving tendencies.

This study aims to explore the impact of transportation students' knowledge of traffic regulations on their awareness and practices regarding driving safety. Through a quantitative survey distributed via Google Forms, the research examines whether students with a greater understanding of traffic rules demonstrate higher levels of safety-conscious behavior. By analyzing data from a representative sample of transportation students at Politeknik Keselamatan Transportasi Jalan, the study seeks to provide evidencebased insights into the effectiveness of traffic regulation knowledge in fostering safer driving practices. The ultimate goal is to support policy recommendations for integrating traffic education into curricula as a means of promoting safety awareness among young drivers. they show that the conventional use of negative affect in safe driving campaigns is liable(

Eherenfreund-Hager, A. –B.-A. (2017)

METHOD

This research uses a mixed methods approach, combining quantitative and qualitative methods to achieve a comprehensive understanding of the topic. The primary data collection method is a survey distributed via Google Forms which consists of a 20-item Likert scale questionnaire. This instrument explores three main aspects: students' knowledge of traffic rules, their awareness of the importance of road safety, and real-life driving safety practices. This survey targeted 182 Road Transportation Safety Polytechnic students who were actively involved as road users. The sample was randomly selected from students who drive frequently, to ensure representativeness of the population as a whole.

Apart from surveys, observation methods are used to directly assess students' driving safety behavior in real life. This provides a complementary perspective to the self-reported data collected through questionnaires. Additionally, optional in-depth interviews with selected students and faculty are included to provide richer contextual insights into perceptions, challenges, and potential strategies to improve traffic safety knowledge and practice.

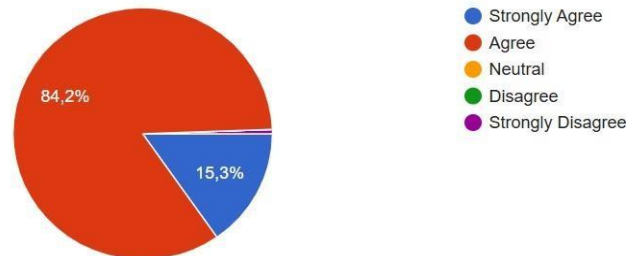
This research uses a quantitative descriptive approach, with a focus on analyzing the relationship between students' knowledge of traffic rules and their level of awareness and driving safety practices. Data analysis includes correlation and regression tests to identify significant relationships and trends, aiming to support policy recommendations for integrating traffic safety education into transportation curricula.

FINDING AND DISCUSSION

RESULT

1. I understand the meanings of standard road signs like stop signs, yield signs, and pedestrian crossings. [Salin diagram](#)

183 jawaban



The diagram illustrates the results of a survey regarding the statement: "I understand the meaning of standard road signs such as stop signs, exit signs, and pedestrian crossings." A total of 183 respondents participated in this survey.

The findings reveal that the majority of respondents, totaling 84.2%, agreed that they understood the meaning of these standard road signs. This indicates that most participants have a sufficient level of awareness and comprehension of critical traffic signs, which are fundamental to ensuring safe and organized road use. These signs, such as stop signs, give way signs, and pedestrian crossings, play an essential role in regulating traffic flow and enhancing safety for all road users.

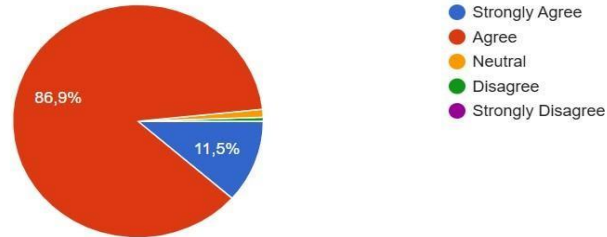
Interestingly, 15.3% of respondents provided different responses. However, the diagram shows that there are no significant color-coded categories other than red, which represents agreement. This suggests that the remaining respondents did not choose options such as strongly agree, neutral, disagree, or strongly disagree. The absence of these categories might indicate a high concentration of responses clustered around agreement, with minimal variation in the data.

From these results, it can be concluded that the majority of respondents possess a solid understanding of the meaning of standard road signs. This is a positive indication of their knowledge regarding traffic safety regulations, reflecting their readiness to adhere to established rules and contribute to safer road environments. The findings also underscore the importance of reinforcing this level of understanding through continuous education and awareness campaigns to maintain and improve traffic safety standards.

I am aware of the speed limits in specific areas, such as school zones and highways.

183 jawaban

 Salin diagram



The diagram shows survey results regarding the statement: "I know the speed limits in certain areas, such as school zones and highways." This survey was attended by 183 respondents.

The majority of respondents, namely 86.9%, chose to agree, which is marked in red in the diagram. This shows that the majority of respondents stated that they were aware of speed limits in certain areas, such as school areas and toll roads. As many as 11.5% of respondents chose strongly agree which is represented by the blue color which shows that a small percentage of them have full awareness of speed limits.

Meanwhile, there are several sections colored yellow, green and purple which represent the neutral, disagree and strongly disagree categories, although the number of respondents in this category is very small so the percentages are not stated.

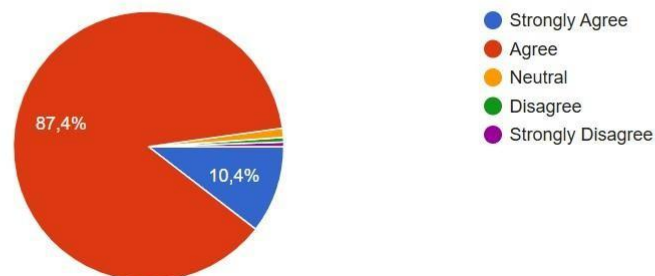
From these results it can be concluded that the level of awareness of respondents regarding speed limits in certain areas is quite high, and the majority understand the importance of complying with these rules for road safety.

3.

I know who has the right of way at pedestrian crosswalks.

182 jawaban

 Salin dia



The diagram shows the results of a survey regarding the statement: "I know who has the right of way at a pedestrian crossing." This survey was attended by 182 respondents.

The majority of respondents, namely 87.4%, chose to agree (red), which means that the majority stated that they knew who had the main right at a pedestrian crossing. A small portion of respondents, namely 10.4%, chose strongly agree (blue), indicating a stronger understanding of this rule.

There were several respondents who chose other categories such as neutral (orange), disagree (green), or strongly disagree (purple), although the number was so small that the percentage was not stated.

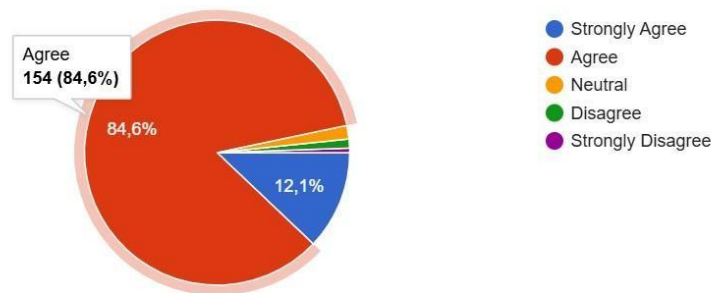
From these results it can be concluded that the level of understanding of respondents regarding the main rights at pedestrian crossings is quite high, the majority showed good awareness of these rules. This reflects good knowledge in road safety aspects.

4.

I am familiar with the legal driving age and requirements for obtaining a driver's license.

182 jawaban

 Salin diagram



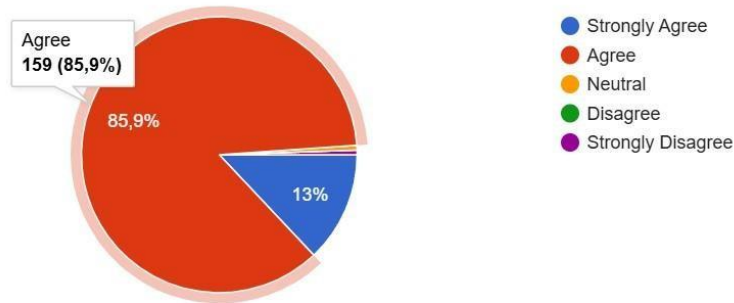
The table shows the results of a survey conducted on 185 respondents regarding their understanding of the consequences of driving over the speed limit. Of the total respondents, 159 people or around 85.9% answered agreeing with this statement. This means that the majority of respondents felt that they understood the risks and impacts that could arise as a result of breaking the speed limit. Meanwhile, another 13% of respondents may not have the same understanding, indicating variations in awareness of the dangers of driving vehicles at high speed. This graphic reflects the importance of driving education and awareness as a step to improve road safety.

5.

I understand the consequences of driving over the speed limit.

Salin d

185 jawaban



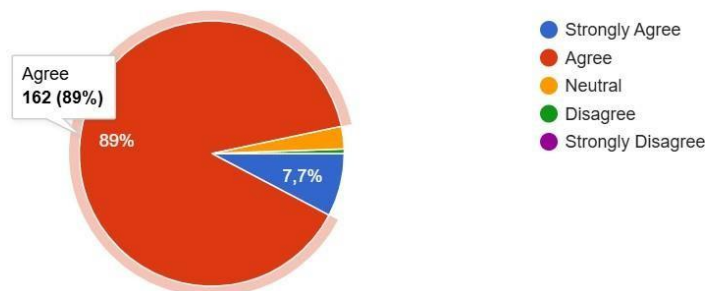
The table displayed depicts the survey results regarding respondents' understanding of the consequences of driving more than the speed limit, with a total of 185 responses. From these results, 159 respondents representing 85.9% answered agreeing with the statement of understanding the impact of breaking the speed limit. This indicates that the majority of survey participants have a good awareness of the risks associated with excessive driving speed. In contrast, there were 13% of respondents who disagreed or were neutral, this shows that there is a group of people who may not understand or have sufficient information about these consequences. This graphic reflects the importance of education and information about driving safety to increase public understanding of the dangers of driving vehicles at high speeds.

6.

I know the penalties for not wearing a seatbelt.

Salin diagr

182 jawaban



The table displayed is a pie chart showing the results of a survey regarding public knowledge regarding sanctions or penalties for not wearing a seat belt. Of the total 182 respondents, 89% or 162 people stated that they were aware of the sanctions. These percentages are marked in orange on the diagram, indicating the largest groups. Apart from that, there were 7.7% of respondents who were in the

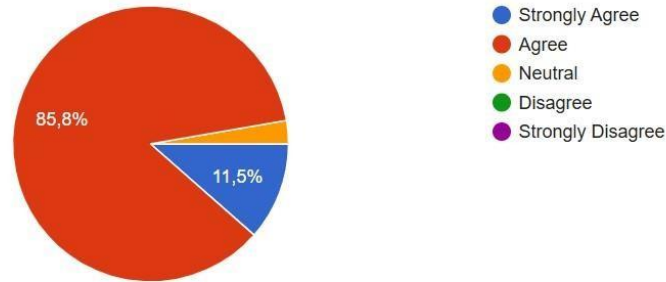
neutral category, while the percentage who disagreed or strongly disagreed was very small, this shows that the majority of people have a fairly good awareness of the importance of using seat belts and know the consequences. This graph shows the importance of education about driving safety in increasing public awareness.

7.

I am aware of the laws against using mobile phones while driving.

Salin d

183 jawaban



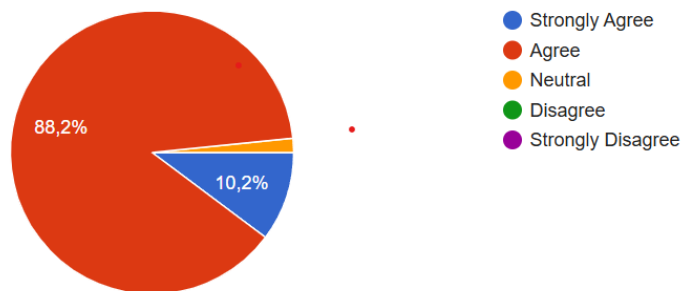
Based on the survey results, 85.8% of respondents said they "agree" with the statement "I am aware of the law prohibiting the use of cell phones while driving", while another 11.5% said they "strongly agree". These results indicate that the majority of respondents have quite high awareness of the existence of regulations that prohibit the use of cell phones while driving. This high level of awareness reflects that information regarding traffic regulations, especially regarding prohibitions on the use of cell phones, has reached the public well. However, it is important to ensure that this awareness is also followed by implementing appropriate behavior to reduce the risk of traffic accidents due to distraction while driving.

8.

I know the safe following distance rules between vehicles.

Sa

186 jawaban



Based on survey data, 88.2% of respondents said they "agree" with the statement "I know the rules for safe distance between vehicles", and another 10.2% said they "strongly agree". These results show that the majority of respondents have

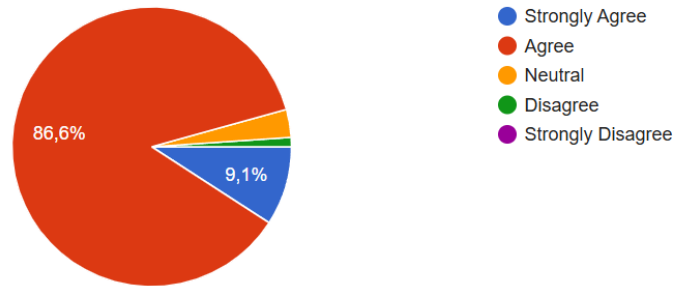
a good understanding of the rules for safe distance between vehicles when driving. This awareness is important to reduce the risks resulting from sudden braking or other emergency situations. This high level of understanding shows that education regarding safe distances between vehicles has been delivered effectively, although efforts are still needed to ensure the implementation of these rules in daily practice to improve traffic safety.

9.

I understand what defensive driving is.

 Salidat

186 jawaban



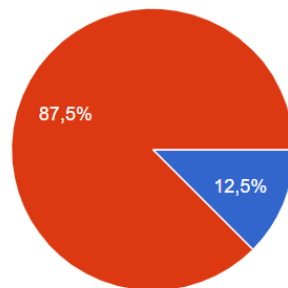
Based on the survey results, 86.6% of respondents said they "agree" with the statement

"I understand what Defensive Driving is", while another 9.1% said they "strongly agree". This data shows that the majority of respondents have a fairly good understanding of the concept of Defensive Driving, namely a way of driving that aims to anticipate potential dangers on the road and minimize the risk of accidents. This high level of understanding reflects success in conveying information or education related to defensive driving principles. However, it is important to ensure that this understanding is applied to everyday driving habits in order to make a real contribution to improving road safety.

10

I am aware of the consequences of driving under the influence of alcohol or drugs.

184 jawaban



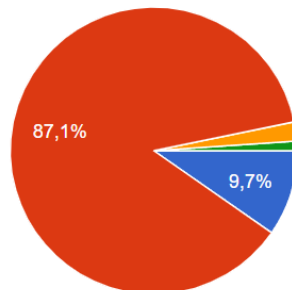
- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

The survey results showed that 87.5% of respondents said they "agree" with the statement "I am aware of the consequences of driving under the influence of alcohol or drugs", and another 12.5% said they "strongly agree". This data shows that almost all respondents have a high awareness of the negative impacts of driving under the influence of alcohol or illegal drugs, including the risk of accidents, dangers to other road users, and the legal consequences they may face. This high level of awareness reflects the success of road safety campaigns and education regarding the dangers of Driving Under Influence (DUI). However, this awareness needs to be supported by concrete actions to avoid this behavior, so that it can create a safer driving environment for all road users.

11

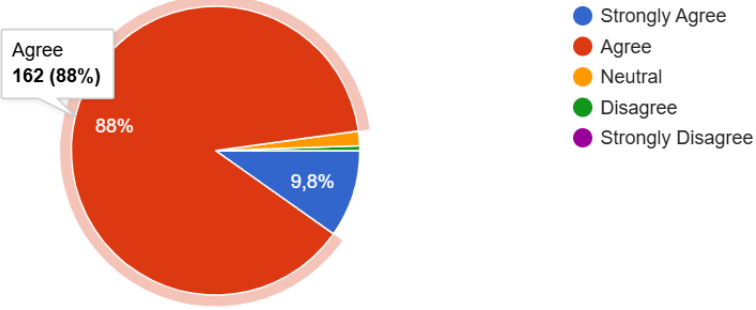
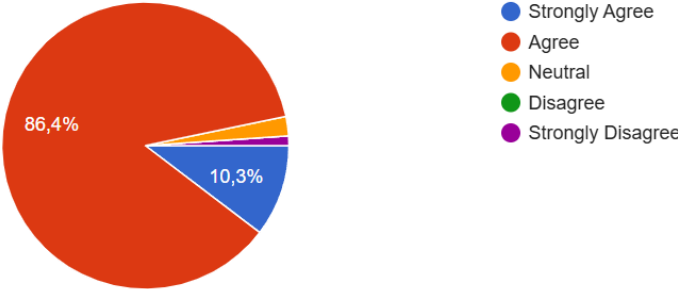
I always wear a seatbelt while in a car.

186 jawaban



- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Based on the survey results, 87.1% of respondents said they "agree" with the statement "I always wear a seatbelt while in a car", and another 9.7% said they "strongly agree". This data shows that the majority of respondents have a high awareness of the importance of wearing a seat belt when in a car. This habit reflects a good understanding of the function of seat belts in protecting drivers and passengers from serious injury in the event of an accident. This high percentage can also be an indicator of the success of educational programs and road safety

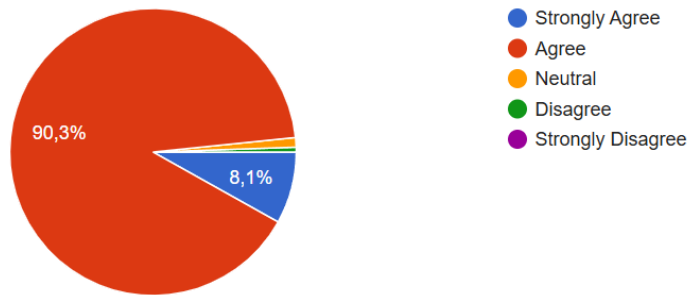
	regulations. However, further efforts are still												
12	<p>I avoid using my phone while crossing the street or while driving.</p> <p>184 jawaban</p>  <table border="1"> <thead> <tr> <th>Response</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Strongly Agree</td> <td>9.8%</td> </tr> <tr> <td>Agree</td> <td>88%</td> </tr> <tr> <td>Neutral</td> <td>~0.5%</td> </tr> <tr> <td>Disagree</td> <td>~0.5%</td> </tr> <tr> <td>Strongly Disagree</td> <td>~0.7%</td> </tr> </tbody> </table> <p>The survey results showed that 88% of respondents said they "agree" with the statement "I avoid using a cell phone when crossing the road or while driving", and another 9.8% said they "strongly agree". This data reflects respondents' high awareness of the dangers of using cell phones when crossing the road or driving. Avoiding cell phone use in situations like this is an important step to maintain concentration and reduce the risk of accidents, both as a pedestrian and driver. This high level of approval indicates the success of the road safety campaign and education regarding the dangers of distraction. However, education and supervision need to continue so that positive behavior becomes a consistent habit and is implemented by the entire community.</p>	Response	Percentage	Strongly Agree	9.8%	Agree	88%	Neutral	~0.5%	Disagree	~0.5%	Strongly Disagree	~0.7%
Response	Percentage												
Strongly Agree	9.8%												
Agree	88%												
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Disagree	~0.5%												
Strongly Disagree	~0.7%												
13	<p>I remind others to follow traffic rules when I am a passenger.</p> <p>184 jawaban</p>  <table border="1"> <thead> <tr> <th>Response</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Strongly Agree</td> <td>10.3%</td> </tr> <tr> <td>Agree</td> <td>86.4%</td> </tr> <tr> <td>Neutral</td> <td>~0.5%</td> </tr> <tr> <td>Disagree</td> <td>~0.5%</td> </tr> <tr> <td>Strongly Disagree</td> <td>~1.8%</td> </tr> </tbody> </table> <p>Based on the survey results, 86.4% of respondents said they "agree" with the statement "I remind other people to follow traffic rules when I am a passenger", and another 10.3% said they "strongly agree". This data shows that the majority of respondents not only understand the importance of obeying traffic rules but also play an active role in reminding others to do so, even when they only act as passengers. This attitude reflects a collective responsibility for road safety and shows</p>	Response	Percentage	Strongly Agree	10.3%	Agree	86.4%	Neutral	~0.5%	Disagree	~0.5%	Strongly Disagree	~1.8%
Response	Percentage												
Strongly Agree	10.3%												
Agree	86.4%												
Neutral	~0.5%												
Disagree	~0.5%												
Strongly Disagree	~1.8%												

that many individuals realize the importance of their contribution in creating a safe driving culture. However, further efforts are needed to encourage more people to dare to warn drivers or other road users for mutual safety.

14

I always use pedestrian crossings or sidewalks when available.

185 jawaban

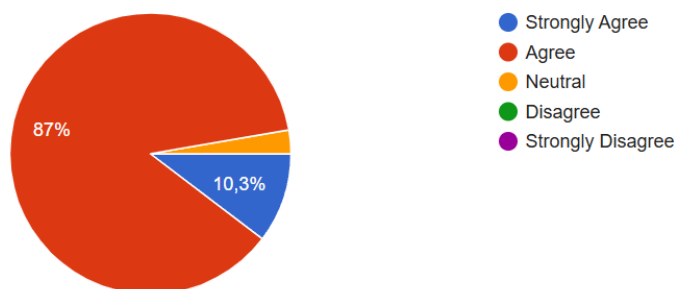


The survey results showed that 90.3% of respondents said they "agreed" with the statement "I always use pedestrian crossings or sidewalks when available", and another 8.1% said they "strongly agreed". This data reflects a very high awareness among respondents of the importance of using available pedestrian facilities, such as zebra crossings or sidewalks, to maintain personal safety when on the road. This high level of compliance also shows the success of road safety campaigns in encouraging orderly behavior among pedestrians. However, it is still necessary to carry out continuous education and improve the quality and accessibility of pedestrian facilities to ensure that this positive behavior can be implemented consistently by all levels of society.

15

I often observe students wearing helmets while riding motorcycles or bicycles.

184 jawaban



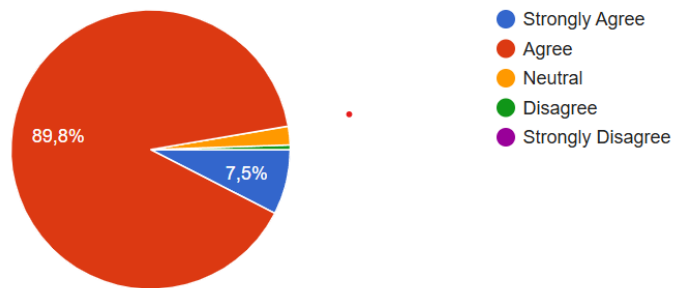
Based on the survey results, 87% of respondents agreed, and 10.3% of respondents strongly agreed because they often observed students using helmets when riding motorbikes or bicycles. These findings show quite high awareness among students of the importance of using helmets as a form of safety protection when driving. This figure reflects compliance with traffic regulations that require the use of helmets, as well as the positive influence of driving safety education that has been implemented in their environment. However, these results also show room for increasing the percentage to a higher level, namely "strongly agree" as a reflection of strengthening driving safety culture.

16

I avoid crossing the road at non-designated places, even if I am in a hurry.

Salin diagram

186 jawaban



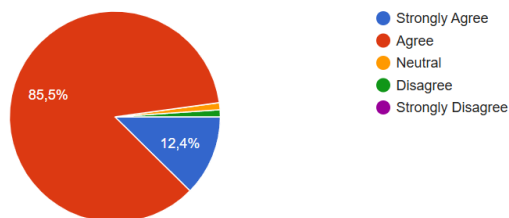
The survey results show that the majority of respondents have a high awareness of the importance of crossing the road at a designated place, even if they are in a hurry. As many as 89.8% of respondents agreed with the statement "I avoid crossing the road in undesignated places, even if I'm in a hurry", while another 7.5% strongly agreed. This reflects a good level of compliance with traffic safety regulations and awareness of the risks that can arise due to careless crossing behavior. This high percentage also shows that the majority of respondents understand the importance of using crossing facilities, such as zebra crossings or pedestrian bridges, to maintain the safety of themselves and other road users. However, these findings also highlight the need to continue improving safety education and facilities to encourage consistency in these positive behaviors.

17

I avoid getting into a car if the driver has been drinking.

Salin diagram

186 jawaban



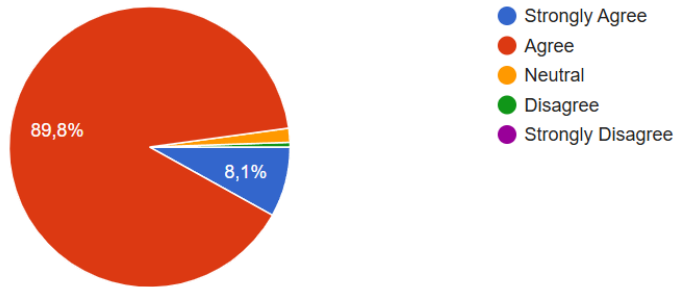
The survey results show that the majority of respondents have a high awareness of the dangers of driving a car with a driver who drinks alcohol. As many as 85.5% of respondents agreed with the statement "I avoid getting into a car if the driver has been drinking alcohol", while another 12.4% strongly agreed. This percentage indicates that the majority of respondents understand that there is a significant risk to safety from being in a vehicle driven by someone who is under the influence of alcohol. This awareness reflects a good understanding of the importance of prioritizing safety and minimizing the potential for traffic accidents due to drivers who are not in top condition. These results also underline the importance of continuing to provide education to the public, especially the younger generation, about the dangers of drunk driving and the importance of taking a firm stance to reject situations that could endanger their safety.

18

I feel confident that I can travel safely

 Salir

186 jawaban



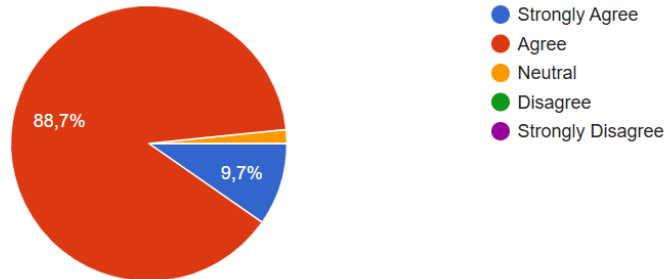
The survey results show that the majority of respondents feel confident in terms of safety when traveling. As many as 89.8% of respondents agreed with the statement "I feel confident that I can travel safely", while another 8.1% strongly agreed. This figure reflects that the majority of respondents feel they have sufficient ability or knowledge to maintain safety while on the road. This sense of self-confidence is most likely related to their understanding of traffic rules, readiness to face potential dangers, and awareness of the importance of being careful when driving or using public transportation. Although the majority feel confident, the small number of respondents who strongly agree shows that there is still room to increase this feeling of confidence, through further education regarding transportation safety and awareness of risk factors that can occur during travel.

19

I believe that improving knowledge of traffic rules can help reduce accidents.

[Salin](#)

186 jawaban



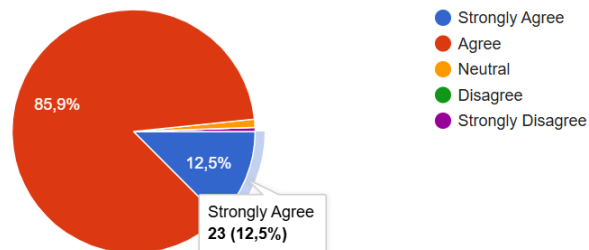
The survey results show that the majority of respondents think that increasing knowledge about traffic rules can help reduce the number of accidents. As many as 88.7% of respondents agreed with the statement "I believe that increasing knowledge about traffic rules can help reduce accidents", while another 9.7% strongly agreed. This percentage reflects a strong awareness among respondents regarding the importance of understanding and implementing traffic rules in creating a safer road environment. This belief is likely based on the view that better knowledge will improve compliance with regulations, such as speed limits, seat belt use, and crosswalks in appropriate places. Thus, this will reduce risky behavior that can cause accidents. These findings support the importance of educational efforts and road safety campaigns that focus on increasing public understanding of traffic regulations as one of the main strategies in reducing the number of road accidents.

20

I think road safety education is important and should be taught in schools.

[Salin diagram](#)

184 jawaban



The survey results show that the majority of respondents support the importance of road safety education taught in schools. As many as 85.9% of respondents agreed with the statement "I think road safety education is important and should be taught in schools", while another 12.5% strongly agreed. This percentage shows the high awareness of respondents regarding the role of education in improving road safety. Road safety education in schools is considered a strategic step to form awareness and positive behavior from an early age, such as obeying traffic signs, understanding the importance of using safety equipment, and

respecting the rights of other road users. By including road safety material in the curriculum, it is hoped that the younger generation can grow into more responsible road users, thereby reducing the number of accidents in the future. These findings emphasize the need to integrate road safety education in the formal education system as part of efforts to create a safety culture in society.
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DISCUSSION

The survey results show that the majority of respondents demonstrated a strong understanding and awareness of transportation safety, which positively reflects their knowledge of traffic regulations. This shows that Road Transportation Safety Polytechnic students are equipped with the theoretical knowledge needed to understand the importance of traffic rules and regulations. They agreed with statements regarding key traffic safety practices, such as obeying speed limits, wearing seat belts, and obeying road signs. The high level of agreement on the Likert scale items implies that students have strong information about safe driving behavior, thereby reinforcing the value of the education they receive.

However, although theoretical knowledge of traffic rules appears to be strong, there is a need for further investigation into how this knowledge translates into consistent driving behavior in the real world. It is possible that although students understand the rules at a cognitive level, they do not always apply them in practical driving scenarios. This distinction between science and practice is very important, because understanding traffic rules does not necessarily guarantee that students will always obey them when driving.

This discussion emphasized the importance of continued efforts to improve traffic safety education. It is not enough for students to just know traffic rules; they must also internalize these rules and incorporate them into their daily driving habits. The research findings indicate that although the educational programs at the Road Transport Safety Polytechnic are successful in disseminating theoretical knowledge, they may not be sufficient in encouraging the practical application of this knowledge in real-world driving contexts.

To address this gap, it is recommended that the curriculum include more practical and hands-on safety training. This may include opportunities for students to practice driving in real-world environments, with supervision and feedback that strengthens the link between knowledge and safe driving practices. Such training will help students internalize safety behaviors and make them part of their automated driving routine. By bridging the gap between theoretical knowledge and practical application, traffic safety education can have a more significant and lasting impact on students' driving habits, ultimately contributing to safer road users in the future.

CONCLUSION

This research concludes that transportation students at the Road Transportation Safety Polytechnic generally show a strong understanding of traffic regulations and awareness of transportation safety. The high level of agreement with the survey statements

reflects their knowledge and positive attitudes towards safe driving practices. This shows the effectiveness of existing education programs in instilling basic safety principles.

While knowledge and awareness are essential, ensuring that this results in consistent and safe behavior on the road remains a priority. This study highlights the importance of strengthening traffic rules education through practical application and experiential learning. These efforts are important to bridge the gap between theoretical understanding and real-world practice, thereby fostering a culture of safety among future drivers.

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