INFLUENTIAL OR INFLUENCED: EXRLORING FACTORS AFFECTING ACADEMIC SUCCESS OF TADRIS BIOLOGY STUDENTS IN ISLAMIC HIGHER EDUCATION

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Diajukan untuk Memenuhi Salah Satu Syarat Memperoleh Gelar Sarjana Pendidikan (S.Pd.) pada Jurusan Tadris Biologi

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PERSEMBAHAN

Skripsi ini saya persembahkan terkhusus bagi Ayah dan Ibu tercinta yang telah merawat, mendidik, dan membesarkanku. Terima kasih atas kesabaran dan ketulusanmu berjuang memenuhi segala kebutuhanku. Juga bersabar atas segala tingkah lakuku yang tidak sesuai dengan keingananmu.

Ananda berharap penyelesaian studi ini menjadi kebanggaan bagimu, pembasuh luka perjuanganmu. Engkaulah yang sesungguhnya berjuang.

Doakan Ananda selalu untuk mencapai hal-hal baik seterusnya.

MOTTO

Sesungguhnya Allah tidak merubah keadaan sesuatu kaum sehingga mereka merubah keadaan yang ada pada diri mereka sendiri.

(Q.S. Ar-Rad: 11)

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بِسْمِ اللهِ الرَّحْمَنِ الرَّحِيْمِ اللهِ السَّلَامُ عَلَى اَشْرَفِ اللَّنْبِيَاءِ وَالْمُرْسَلِيْنَ وَعَلَى اللهِ وَصَحْبِهِ اَجْمَعِیْنَ وَعَلَى اللهِ وَصَحْبِهِ اَجْمَعِیْنَ

Dengan segenap hati dan keikhlasan yang mendalam, penulis mengucapkan puji syukur ke hadirat Allah SWT yang telah melimpahkan segala rahmat dan karunia-Nya, sehingga peneliti dapat menyelesaikan artikel ini yang berjudul "INFLUENTIAL OR INFLUENCED: EXRLORING FACTORS AFFECTING ACADEMIC SUCCESS OF TADRIS BIOLOGY STUDENTS IN ISLAMIC HIGHER EDUCATION".

Artikel ini merupakan salah satu persyaratan memperoleh gelar Sarjana Pendidikan (S.Pd.) pada Program S-1 Tadris Biologi Fakultas Tarbiyah dan Ilmu Keguruan IAIN Kerinci. Dalam penyusunan artikel ini, penulis telah banyak mendapat bimbingan, saran, bantuan, dorongan dan petunjuk dari berbagai pihak. Untuk itu penulis mengucapkan terima kasih yang tulus kepada:

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Influential or Influenced: Exploring Factors Affecting Academic Success of Tadris Biology Students in Islamic Higher Education

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ABSTRACT

Islamic Higher Education often serves as a pivotal educational centre, cultivating knowledge and fostering academic growth. Understanding the factors influencing students' academic performance, particularly in specialized fields like Tadris Biology, holds significance in optimising educational strategies and support systems. This study aims to ascertain the variables that impact the Cumulative Achievement Index of Tadris Biology students at Islamic universities. The research methodology employed is qualitative, using Grounded Theory analysis techniques. Data was collected by administering a questionnaire and conducting indepth interviews with 67 students. The findings indicate that prior educational experience, gender, and parental income affect GPA. Students with a scientific background, female students, and those from higher-income households tend to achieve higher GPAs. Conversely, social media usage can hurt academic performance, while involvement in extracurricular activities has no discernible effect. The benefit of this research is that it explores factors affecting the academic success of tardis biology students in Islamic higher education. This research holds inherent value in unravelling the nuanced aspects that shape the academic success of Tadris Biology students within the realm of Islamic higher education. Understanding these dynamics can pave the way for tailored interventions and support systems to enhance student outcomes in this specialised field.

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INTRODUCTION

The Grade Point Average (GPA) is a crucial measure used to assess academic performance in higher education (Alangari & Alturki, 2020; Lim *et al.*, 2022; Warren & Goins, 2019). Students must achieve a high GPA to demonstrate their learning ability and

mastery of their studied material (Pepe, 2012; Rafik, et al., 2023). This imperative extends to undergraduate students specialising in Biology, emphasising the critical need to comprehend the determinants impacting Grade Point Average (GPA). Understanding these factors is pivotal in this academic context. Therefore, studying the factors that

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affect academic performance in this context is imperative. Several factors may be the main determinants, such as previous educational background, gender, intrinsic and extrinsic motivation, learning methods, and psychological and emotional aspects (Akhdan & Aminatun, 2022; Mašić, *et al.*, 2020; Negru-Subtirica, *et al.*, 2020).

Comprehending these elements is essential in crafting enhanced educational approaches to foster improved learning outcomes and academic success within higher education settings (Al Breiki, et al., 2019; Morsy & Karypis, 2019). In today's world of complex science and modern education, the Tadris Biology department has a crucial role in producing qualified biology teacher candidates. Students in this major must have a deep understanding of biology and solid educational skills. GPA is essential in assessing a student's ability to achieve these goals.

It cannot be denied that the majority of Indonesian students have a target of getting a high GPA while in college. Therefore, we must research the factors that influence the GPA of students majoring in Biology to design more effective learning programs, identify individual student needs, and provide appropriate support to achieve optima1 academic success (Hepworth, et al., 2018; Scherer, et al., 2017; Zollanvari, et al., 2017). Research on factors influencing academic success in Biology can guide effective educational strategies. It can also assist colleges in identifying individual student needs, developing appropriate support programs, and creating more relevant curricula.

The identification of student success in research will enhance the quality of higher education. Still, they will also help produce a generation of biology teachers who are competent and able to provide high-quality education to the next generation (Dennie, *et al.*, 2019; Van Overschelde & López, 2018). The determinants of GPA for students

majoring in Biology are an exciting subject for educational researchers. In particular, previous educational background and gender have been found to play a role in GPA differences. Motivational factors, such as intrinsic and extrinsic motivation, learning methods, level of social support, and psychological and emotional aspects, such as stress or anxiety, can also influence GPA (Akhdan & Aminatun, 2022; Mašić, *et al.*, 2020; Negru-Subtirica, *et al.*, 2020).

In-depth research into the factors that influence the academic success of Biology students at Islamic universities is crucial for designing more effective and relevant educational approaches that align with spiritual values (Horwitz, 2021; Sapp, 2017). It can also help universities identify individual student needs, develop appropriate support programs, and design curricula that include a holistic approach between science and religion. Research plays a crucial role in determining the reasons that hinder student success and developing solutions to design a better educational system. This, in turn, will contribute positively to producing a generation of competent scholars who can serve society and religion with a deep understanding of both biology and Islamic religion. The benefit of such research for science and society is that it can provide an in-depth understanding of the relationship between academic achievement and its impact on individuals, such as job opportunities and community.

METHOD

Research Approach

This study utilises a qualitative approach that applies Grounded Theory analysis techniques to comprehend the factors influencing the Cumulative Achievement Index (GPA) of Tadris Biology students at Islamic religious universities. The results of Grounded Theory analysis will be validated through triangulation of data from various

sources and audited by an independent researcher to guarantee their reliability. The resulting concepts and themes will be used to create a theory that definitively explains the factors that influence the GPA of Biology Tadris students (Thornberg & Dunne, 2019).

Data collection technique

Data collection used an open-ended questionnaire to elaborate on the issue (Boparai, et al., 2018; Krosnick, 2018). Respondents were selected by considering variations in their previous educational background, gender, level of study, and GPA. Interviews will be conducted in depth with structured questions to explore students' experiences, perceptions, and views on the factors influencing their GPA.

Data analysis technique

Data generated from interviews and document analysis will be analysed using initial coding techniques (Cope, 2020; Mihas, 2023). Initial coding involves assigning labels or codes to significant pieces of data that appear in interviews and documents. Then, the coded data will be compared and analysed to identify patterns and relationships between factors influencing student GPA. This will involve grouping similar codes and identifying critical concepts from the data.

RESULTS AND DISCUSSION

The results of the research show that respondents assume that several factors play a role in influencing their GPA in the Biology Tadris Department of Islamic Universities.

Department Contribution during High School/equivalent

According to some students, a student's high school major can impact their GPA. Researchers conducted a factor analysis and found that out of the 67 Biology Tadris student

respondents, 79% believed their high school major could affect their GPA, while 21% said it did not. Choosing majors in natural science (IPA) during upper secondary education can indirectly affect a student's academic performance, particularly their Grade Point Average (GPA).

This can be explained by the variation in skills and knowledge acquired by students from Natural Sciences departments compared to non-Natural Sciences departments. Students with a background in science majors generally achieve better and more stable academic results than those from non-science majors. The correlation between choosing a high school central equivalent to Biological Sciences and decreasing GPA suggests that students from natural science backgrounds have an advantage over non-science students, mainly if they have studied biology and natural science subjects in-depth during their upper secondary education. This is because they have a deeper understanding of biological principles and innate scientific knowledge, particularly those who have chosen a biology major. Students majoring in Natural Sciences (IPA) during high school tend to get more extensive exposure to science and mathematics (Yusup, 2021).

They have the ability to explore complex concepts which can provide a strong foundation for higher education, such as Tadris Biology major. In this case, the quality and quantity of knowledge they bring to college can provide a significant advantage in understanding and mastering further course material, resulting in better learning outcomes (Yusup, 2021). Therefore, differences in high school educational backgrounds can be considered an influencing factor in student academic achievement.

Gender Differences in Student Grade Point Average (GPA)

Research conducted on 51 university students showed a significant difference in the Average Achievement Index (GPA) between male and female students. Of the respondents, 33 female students obtained high scores, while only 6 male students achieved similar achievements. On the other hand, 8 male students got poor grades compared to only four female students. These findings suggest females tend to perform better academically than males. This result is consistent with other research that indicates that gender plays a crucial role in determining students' GPA, which can be attributed to differences in motivation between males and females (Anisa & Ernawati, 2020; Assari & Caldwell, 2018). Additionally, another research supports these findings, showing that female students tend to have a more satisfactory GPA than male students. This could be because male students often have more external motivation, while female students have more intrinsic motivation. Furthermore, differences in the level of knowledge between males and females can also be a determining factor in academic achievement (Bowman, et al., 2022).

The decreased focus exhibited by males during instructional sessions contributes to the disparity gender-based in academic performance, corroborating earlier studies that underscore heightened the academic dedication observed among females (Antika & Haikal, 2019). The study reveals that males tend to pay less attention to lessons, which can contribute to the difference in academic achievement between genders. These findings are consistent with other research that shows that female students are more active and dedicated in academics than male students. Thus, it can be inferred that the level of attention and dedication to learning has implications for designing more effective learning strategies for both genders (Lundberg, 2020).

Indirect Correlation between Parental Income and GPA

The research results illustrate parental income influences students' Grade Point

Average (GPA) achievement. This research revealed that around 75% of respondents, totalling 67 students, experienced a significant influence of their parent's income on their GPA. Meanwhile, approximately 25% of other respondents stated that their parents' income did not substantially impact their GPA. This shows that the parental income variable correlates reasonably strongly with student academic achievement, with most respondents feeling a real influence from this factor.

Parental income is a critical factor influencing students' financial well-being during college study. Students' success in achieving satisfactory learning outcomes often depends significantly on their ability to meet the needs of tuition fees, books, housing, food, and other costs (Enbeyle, *et al.*, 2020; Esau, 2018).

In this context, the research results explained that parental education and family income significantly support students' success in meeting their needs during the study process (Sari & Rafsanjani, 2020). Parents' level of education can influence their understanding of the importance of education, which can impact the financial support they provide their children during college. Parents' income also plays a crucial role in supporting students because they provide the funds needed to pay educational costs and meet various daily needs. The research results also confirm parental income's influence on student learning outcomes (Putriku, 2018). The income received by student parents can influence their ability to cover educational costs and meet students' living needs, which are often relatively high.

The results of this study confirm that parental income has significant implications for students' academic performance, with a widespread impact on their ability to study without excessive financial burden, which can ultimately influence satisfactory learning outcomes. The research delves into the intricate nature of the correlation between

parental income and student learning outcomes. It highlights the significance of this relationship in shaping improved financial support programs and higher education policies. This deeper comprehension aids in crafting more suitable initiatives to assist students financially and enhance their educational opportunities.

Duration of Social Media Activity and GPA

The research conducted by experts highlights the impact of social media on the academic performance of students majoring in Tadris Biology (Bimbi, 2016). This study examines the correlation between social media usage and academic performance in Tadris Biology students. The findings indicate that the duration of social media use significantly impacted students' academic achievement.

Most students allocated more time to social media activities, which harmed their academic achievements. 51 students who participated in the research, 31% spent more than 6 hours on social media, 25% spent 6 hours daily, 26% spent 4 hours, and 18% spent only 2 hours daily. The data showed that the students who spent more time on social media had poorer academic outcomes, particularly their Grade Point Average (GPA).

The results of this research are consistent with previous studies that have found that students prioritise social media over studying. Excessive use of social media has negative implications academic for outcomes (Sugiyanto & Malik, 2023). Similarly, another study showed that high social media usage was inversely related to academic achievement in biology (Fitri, 2019). Students who spent more time on social media and less time studying had poorer educational outcomes. Moreover, the research also supports these findings, showing that students with high social media usage tend to have lower learning outcomes.

The current research adds to the body of literature by confirming previous findings regarding the long-term negative impact of intensive interaction with social media on academic performance. In conclusion, the data shows that spending excessive time on social media hurts the academic performance of Tadris Biology students. The research findings indicate that students with more time for social media activities tend to have lower educational outcomes. Therefore, it is essential to educate students on the benefits of social media and the need to balance their time between social media and academic activities.

Organisational Activities

The results of this study show evidence of this participation in organizations does not have a significant influence on students' achievement of the Grade Point Average (GPA). Below is a diagram displaying the results of a questionnaire given to respondents, which provides more details.

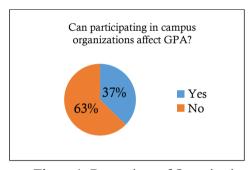


Figure 1. Perceptions of Organization Participation on GPA

This finding aligns with previous research stating that some students prioritise academic activities over non-academic ones. Thus, they focus more on lectures than pursuing interests and talents outside the classroom. Furthermore, the level of activity in organisations does not significantly impact students' GPA (Hasmayni, 2020).

The results of this study can be interpreted as an indication that the impact of participation in organisations on students' GPA can vary depending on various factors. In this context, an individual's interests and priorities toward academic and non-academic activities can play an essential role in

determining the actual impact of organisational membership. In some cases, corporate actions may influence a student positively, while in other cases, students may be more inclined to allocate their time and energy to pursuing academic success (Slavinski Thus, these findings provide et al., 2021). important insights in designing support strategies and programs that suit students' preferences and needs in achieving academic success and non-academic development.

Next, it should be noted that the results of this research do not rule out the importance of participation in organisations on campus. Organisational activities can provide significant benefits regarding leadership skill development, social networking, experiences outside the classroom. However, these findings suggest that the impact of corporate activities may not always be reflected in students' GPA achievements (Fazzlurrahman, et al., 2018; Wati, et al., 2017). For example, an active student in an organisation may successfully develop valuable social and leadership skills. Still, the time spent in that organisation may reduce the time available for academic study (Hasmayni, 2020).

Students must consider balancing their organisational commitments and academic priorities in making educational decisions. Universities can play a role in providing appropriate guidance and support to help students achieve a good balance between corporate activities and academic achievement (Demetriou et al., 2017). That way, students optimise their campus experience, combining skill development outside the classroom with rewarding academic achievement. In addition, further research could also explore other factors that influence the relationship between participation in organisations and student GPA, thereby providing deeper insight into the complexity of this interaction.

CONCLUSION

Factors influencing the Grade Point Average (GPA) of students majoring in Tadris Biology at Islamic religious universities have significant implications for academic achievement. Moreover, previous educational background, especially high school majors, plays a vital role in shaping students' initial understanding, where students with a science background tend to have an advantage. The results also confirmed differences achievement between female and male students, with female students achieving higher GPAs, which may be related to stronger intrinsic motivation. Parental income significantly impacts academic performance, with students from higherincome families having an advantage in financial support. On the other hand, intensive use of social media can be a severe distraction in pursuing academic success, considering that many students spend valuable time in online interactions. However, participation organisations, although having essential benefits in developing social and leadership skills, does not always significantly impact GPA. Therefore, this research provides valuable insight into the complexity of the relationship between various factors that influence student GPA achievement, which can be used to design more effective educational strategies and help students achieve optimal academic success. In the increasingly complex world of higher education, it is essential to help students find the right balance between academic and nonacademic activities to take full advantage of their college experience.

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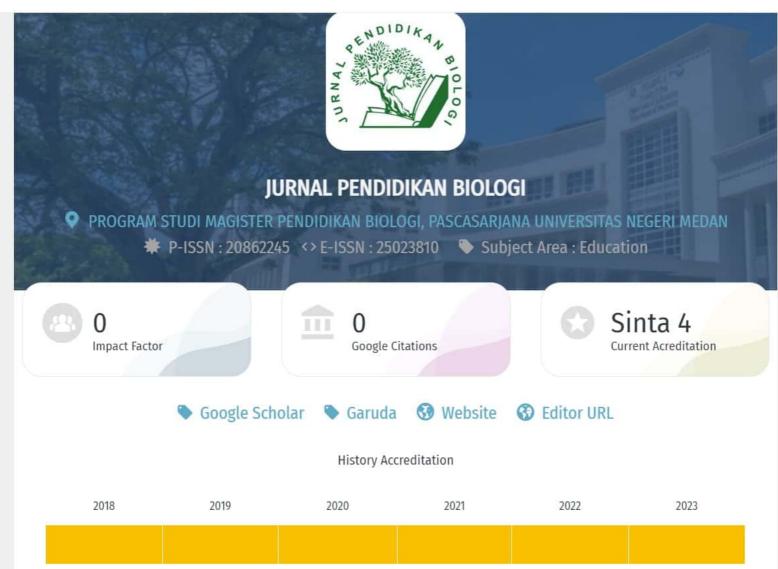
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Influential or Influenced? Exploring Factors Affecting Academic Success of **Tadris Biology Students in Islamic Higher Education**

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ABSTRACT

The objective of this study is to ascertain the variables that impact the Cumulative Achievement Index of Tadris Biology students at Islamic universities. The research methodology employed is qualitative, using Grounded Theory analysis techniques. Data was collected by administering a questionnaire and conducting in-depth interviews with 67 students. The findings indicate that prior educational experience, gender, and parental income affect GPA. Students with a scientific background, female students, and those from higher-income households tend to achieve higher GPAs. Conversely, social media usage can hurt academic performance, while involvement in extracurricular activities has no discernible effect.

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INTRODUCTION

The Grade Point Average (GPA) is a crucial measure used to assess academic performance in higher education (Alangari & Alturki, 2020; Lim et al., 2022; Warren & Goins, 2019). Students must achieve a high GPA to demonstrate their learning ability and mastery of the material they have studied. In the context of Tadris Biology students, it's essential to understand the factors that influence their GPA. The Tadris Biology Department is unique in that it integrates biological sciences with education. Therefore, it's imperative to study the factors that affect academic performance in this context. Several factors may be the main determinants, such as previous educational background, gender, intrinsic and extrinsic motivation, learning methods, and psychological and emotional aspects (Akhdan & Aminatun, 2022; Mašić et al., 2020; Negru- Subtirica et al., 2020).

Understanding these factors is crucial in developing more effective educational strategies to improve learning and academic achievement in tertiary education (Al Breiki et al., 2019; Morsy & Karypis, 2019). In today's world of complex science and modern education, the Tadris Biology department has a crucial role in producing qualified biology teacher candidates. Students in this major must have a deep understanding of biology and solid educational skills. GPA is an essential parameter in assessing a student's ability to achieve these goals.

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Therefore, we must research the factors that influence the GPA of students majoring in Biology to design more effective learning programs, identify individual student needs, and provide appropriate support to achieve optimal academic success (Hepworth et al., 2018; Scherer et al., 2017; Zollanvari et al., 2017). Research focusing on these factors in the context of students majoring in Tadris Biology can give valuable insights into designing more effective educational strategies. It can also assist colleges in identifying individual student needs, developing appropriate support programs, and creating more relevant curricula.

The results of this kind of research will not only improve the quality of higher education (Putpuek et al., 2018). Still, they will also help produce a generation of biology teachers who are competent and able to provide high-quality education to the next generation (Dennie et al., 2019; Van Overschelde & López, 2018). determinants of GPA for students majoring in Biology are an exciting subject for educational researchers. In particular, previous educational background and gender have been found to play a role in GPA differences. Motivational factors, such as intrinsic and extrinsic motivation, learning methods, level of social support, and psychological and emotional aspects, such as stress or anxiety, can also influence GPA.

In-depth research into these factors in Islamic religious universities is crucial in designing educational approaches that are more effective and relevant to spiritual values (Horwitz, 2021; Sapp, 2017). It can also help universities identify individual student needs, develop appropriate support programs, and design curricula that include a holistic approach between science and religion. The results of research like this will positively

contribute to producing a generation of Islamic scholars who are competent and able to serve religion and society with a deep understanding of biology and the Islamic religion.

METHOD

This study utilizes a qualitative approach that applies Grounded Theory analysis techniques to comprehend the factors influencing the Cumulative Achievement Index (GPA) of Tadris Biology students at Islamic religious universities. Grounded Theory analysis techniques will facilitate the development of theories from the collected providing comprehensive data a understanding of these factors (Babchuk & Boswell, 2023; Holton, 2008; Lambert, 2019). To ensure consistency of findings, the results of Grounded Theory analysis will be validated through triangulation of data from various sources and audited by an independent researcher to guarantee their reliability.

Research Approach

The Grounded Theory will undoubtedly arise from the data generated through analysis. The resulting concepts and themes will be used to create a theory that definitively explains the factors that influence the GPA of Biology Tadris students (Thornberg & Dunne, 2019). This theory will continue to be refined and expanded upon as research progresses, leaving no room for doubt about its accuracy.

Data collection technique

Research data collection used an openended questionnaire to elaborate the issue (Boparai et al., 2018; Krosnick, 2018). Respondents were selected by considering variations in their previous educational background, gender, level of study, and GPA. Interviews will be conducted in depth with structured questions to explore students' Dikomentari [A7]: replaced because it is not a preposition

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experiences, perceptions, and views on the factors influencing their GPA.

Data analysis technique

Data generated from interviews and document analysis will be analyzed using initial coding techniques (Cope, 2020; Mihas, 2023). Initial coding involves assigning labels or codes to significant pieces of data that appear in interviews and documents. Then, the coded data will be compared and analyzed to identify patterns and relationships between factors influencing student GPA. This will involve grouping similar codes and identifying critical concepts from the data.

RESULTS AND DISCUSSION

The results of the research show that several factors are assumed by respondents to have played a role in influencing their GPA in the Biology Tadris Department of Islamic Universities.

Department Contribution during High School/equivalent

According to some students, a student's high school major can impact their GPA. Researchers conducted a factor analysis and found that out of the 67 Biology Tadris student respondents, 79% believed their high school major could affect their GPA, while 21% said it did not. Choosing majors in natural science (IPA) during upper secondary education can indirectly affect a student's academic performance, particularly their Grade Point Average (GPA).

This may be attributed to the differences in abilities and understanding gained by students from Natural Sciences departments compared to those from non-Natural Sciences departments (Hasnawati et al., 2023). Students with a background in science majors generally achieve better and more stable academic results than those from non-science majors. The correlation between choosing a high

school central equivalent to Biological Sciences and decreasing GPA suggests that students from natural science backgrounds have an advantage over non-science students, mainly if they have studied biology and natural science subjects in-depth during their upper secondary education. This is because they have a deeper understanding of biological principles and innate scientific knowledge, particularly those who have chosen a biology major. Students who major in Natural Sciences (IPA) during high school tend to get more extensive exposure to science and mathematics subjects (Yusup, 2021).

They are accustomed to deepening complex concepts, which can provide an essential foundation in higher education, including the Tadris Biology department. In this case, the quality and quantity of knowledge they bring to college can provide a significant advantage in understanding and mastering further course material, resulting in better learning outcomes (Yusup, 2021). Therefore, differences in high school educational backgrounds can be considered an influencing factor in student academic achievement.

Gender Differences in Student Grade Point Average (GPA).

The research conducted on 51 students shows significant differences in the Grade Point Average (GPA) between male and female students. Of the respondents, 33 female students obtained high scores, while only six male students achieved similar achievements. On the other hand, eight male students got poor grades compared to only four female students. These findings suggest that females tend to perform better academically than males. In line with these findings, gender has a significant influence on students' academic achievement, with female students performing better than their male counterparts. This result

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is consistent with other research that indicates that gender plays a crucial role in determining students' GPA, which can be attributed to differences in motivation between males and females (Anisa & Ernawati, 2020; Assari & Caldwell, 2018).

Additionally, another research supports these findings, showing that female students tend to have a more satisfactory GPA than male students. This could be because male students often have more external motivation, while female students have more intrinsic motivation. Furthermore, research by Syarif and Irwan (2019) suggests that differences in the level of knowledge between males and females can also be a determining factor in academic achievement.

Lisna (2018) and Novianti (2020) conducted research that indicates significant differences between male and female students' learning outcomes in biology subjects. The study reveals that males tend to pay less attention to lessons, which can contribute to the difference in academic achievement between genders. These findings are consistent with other research conducted by Economists (2015) and Coskun (2014), which suggests that female students are more active and dedicated in the academic field than male students. Thus, it can be inferred that the level of attention and dedication to learning has implications for designing more effective learning strategies for both genders.

Indirect Correlation between Parental Income and GPA

The research results illustrate that parental income influences students' achievement of the Grade Point Average (GPA). In this research, it was revealed that around 75% of respondents, totaling 67 students, experienced a significant influence of their parents' income on their GPA. Meanwhile, approximately 25% of other

respondents stated that their parents' income did not have a substantial impact on their GPA. This shows that the parental income variable has a reasonably strong correlation with student academic achievement, with most respondents feeling a real influence from this factor.

Parental income is a critical factor that influences students' financial well-being during the college study process. Students' success in achieving satisfactory learning outcomes often depends significantly on their ability to meet the needs of tuition fees, books, housing, food, and other costs (Enbeyle et al., 2020; Esau, 2018).

In this context, the results of research conducted beforeexplain that parental education and family income have a significant role in supporting students' success in meeting their needs during the study process (Sari & Rafsanjani, 2020). Parents' level of education can influence their understanding of the importance of education, which can impact the financial support they provide their children during college. Parents' income also plays a crucial role in supporting students because they provide the funds needed to pay educational costs and meet various daily needs.

The results of research conducted also confirm the influence of parental income on student learning outcomes (Putriku, 2018). The income received by student parents can influence their ability to cover educational costs and meet students' living needs, which are often relatively high. Tuition fees, textbooks, housing, and daily living expenses are essential components that must be considered in higher education, and parental income is the primary source of covering these costs.

Therefore, the results of this study confirm that parental income has significant implications for students' academic Dikomentari [A18]: delete

performance, with a widespread impact on their ability to study without excessive financial burden, which can ultimately influence satisfactory learning outcomes. This research provides a deeper understanding of the complexity of the relationship between parental income and student learning outcomes and its relevance in designing more adequate financial support programs and higher education policies.

Duration of Social Media Activity and GPA

The research conducted by experts highlights the impact of social media on the academic performance of students majoring in Tadris Biology. The study investigated the relationship between the time spent on social media applications and educational outcomes. The research team collected data from the Tadris Biology students to determine the extent of their social media usage and its impact on their academic performance. The findings revealed that the length of time spent on social media applications had a significant effect on the educational outcomes of students.

Most students allocated more time to social media activities, which harmed their academic achievements. Of the Tadris Biology students who participated in the study, 31% spent more than 6 hours on social media, 25% spent 6 hours per day, 26% spent 4 hours, and 18% spent only 2 hours per day. The data showed that the students who spent more time on social media had poorer academic outcomes, particularly their Grade Point Average (GPA).

The results of this research are consistent with previous studies that have found that students prioritize social media over studying. Sri and his colleagues' research in 2023 found that excessive use of social media had negative implications for academic outcomes (Sugiyanto & Malik, 2023). Similarly, in another research in 2019 found that a high

level of social media usage was inversely related to academic achievement in biology subjects (Fitri, 2019). Students who spent more time on social media and less time studying had poorer educational outcomes . Moreover, the research conducted by Anisa and Ernawati in 2020 also supports these findings, showing that students with a high level of social media usage tend to have lower learning outcomes (Anisa & Ernawati, 2020).

The current research adds to the body of literature by confirming previous findings regarding the long-term negative impact of intensive interaction with social media on academic performance. In conclusion, the data shows that spending excessive time on social media hurts the academic performance of Tadris Biology students. The research findings indicate that students with more time for social media activities tend to have lower educational outcomes. Therefore, it is essential to educate students on the benefits of social media and the need to balance their time between social media and academic activities.

Organizational Activities

The results of this research indicate that there is evidence to suggest that participation in organizations does not have a significant influence on students' achievement of the Grade Point Average (GPA). This finding is in line with previous research, such that conducted by Yolanda and Mohammad in 2020, which stated that some students tend to prioritize academic activities over non-academic activities. Thus, they focus more on lectures than pursuing interests and talents outside the classroom. Furthermore, research conducted by Heri in 2014 also confirmed that the level of activity in organizations does not have a significant impact on students' GPA.

The results of this study can be interpreted as an indication that the impact of

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participation in organizations on students' GPA can vary depending on various factors. In this context, an individual's interests and priorities toward academic and non-academic activities can play an essential role in determining the actual impact organizational membership. In some cases, corporate actions may influence a student positively, while in other cases, students may be more inclined to allocate their time and energy to pursuing academic success. Thus, these findings provide important insights in designing support strategies and programs that more appropriately suit students' preferences and needs in achieving their academic success and non-academic development.

Furthermore, it should be noted that the results of this research do not rule out the importance of participation in organizations on campus. Organizational activities can provide significant benefits regarding leadership skill development, socia1 networking, and experiences outside the classroom. However, these findings suggest that the impact of corporate activities may not always be reflected in students' GPA achievements. For example, a student who is active in an organization may successfully develop valuable social and leadership skills. Still, the time spent in that organization may reduce the time available for academic study.

In making educational decisions, students need to consider the balance between their organizational commitments and their academic priorities. Universities can play a role in providing appropriate guidance and support to help students achieve a good balance between corporate activities and academic achievement. That way, students can optimize their campus experience, combining skill development outside the classroom with rewarding academic achievement. In addition, further research could also explore other factors that influence

the relationship between participation in organizations and student GPA, thereby providing deeper insight into the complexity of this interaction.

CONCLUSION

Factors influencing the Grade Point Average (GPA) of students majoring in Tadris Biology at Islamic religious universities have significant for implications academic achievement. Previous educational background, especially high school majors, plays a vital role in shaping students' initial understanding, where students with a science background tend to have an advantage. The results also confirmed differences achievement between female and male students, with female students achieving higher GPAs, which may be related to stronger intrinsic motivation. Parental income also has a significant impact on academic performance, with students from families with higher incomes having an advantage in terms of financial support. On the other hand, intensive use of social media can be a severe distraction in pursuing academic success, considering that many students spend valuable time in online interactions. However, participation in organizations, although having essential benefits in developing social and leadership skills, does not always have a significant impact on GPA. Therefore, this research provides valuable insight into the complexity of the relationship between various influence student factors that GPA achievement, which can be used as a basis for effective educational designing more strategies, as well as helping students achieve optimal academic success. In the increasingly complex world of higher education, it is essential to help students find the right balance between academic and non-academic activities to take full advantage of their college experience.

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Some of these opinions are taken from various literature, so citations must be included.

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Influential or Influenced? Exploring Factors Affecting Academic Success of Tadris Biology Students in Islamic Higher Education

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Academic Gender, Biology Students, Educational Background, Student GPA, Social Media

ABSTRACT

The objective of this study is to ascertain the variables that impact the Cumulative Achievement Index of Tadris Biology students at Islamic universities. The research methodology employed is qualitative, using Grounded Theory analysis techniques. Data was collected by administering a questionnaire and conducting in-depth interviews with 67 students. The findings indicate that prior educational experience, gender, and parental income affect GPA. Students with a scientific background, female students, and those from higher-income households tend to achieve higher GPAs. Conversely, social media usage can hurt academic performance, while involvement in extracurricular activities has no discernible effect.

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INTRODUCTION

The Grade Point Average (GPA) is a crucial measure used to assess academic performance in higher education (Alangari & Alturki, 2020; Lim et al., 2022; Warren & Goins, 2019). Students must achieve a high GPA to demonstrate their learning ability and mastery of the material they have studied. In the context of Tadris Biology students, it's essential to understand the factors that influence their GPA. The Tadris Biology Department is unique in that it integrates biological sciences with education. Therefore, it's imperative to study the factors that affect academic performance in this context. Several factors may be the main determinants, such as previous educational background, gender, intrinsic and extrinsic motivation, learning methods, and psychological and emotional aspects (Akhdan & Aminatun, 2022; Mašić et al., 2020; Negru- Subtirica et al., 2020).

Understanding these factors is crucial in developing more effective educational strategies to improve learning and academic achievement in tertiary education (Al Breiki et al., 2019; Morsy & Karypis, 2019). In today's world of complex science and modern education, the Tadris Biology department has a crucial role in producing qualified biology teacher candidates. Students in this major must have a deep understanding of biology and solid educational skills. GPA is an essential parameter in assessing a student's ability to achieve these goals.

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Therefore, we must research the factors that influence the GPA of students majoring in Biology to design more effective learning programs, identify individual student needs, and provide appropriate support to achieve optimal academic success (Hepworth et al., 2018; Scherer et al., 2017; Zollanvari et al., 2017). Research focusing on these factors in the context of students majoring in Tadris Biology can give valuable insights into designing more effective educational strategies. It can also assist colleges in identifying individual student needs, developing appropriate support programs, and creating more relevant curricula.

The results of this kind of research will not only improve the quality of higher education (Putpuek et al., 2018). Still, they will also help produce a generation of biology teachers who are competent and able to provide high-quality education to the next generation (Dennie et al., 2019; Van Overschelde & López, 2018). determinants of GPA for students majoring in Biology are an exciting subject for educational researchers. In particular, previous educational background and gender have been found to play a role in GPA differences. Motivational factors, such as intrinsic and extrinsic motivation, learning methods, level of social support, and psychological and emotional aspects, such as stress or anxiety, can also influence GPA.

In-depth research into these factors in Islamic religious universities is crucial in designing educational approaches that are more effective and relevant to spiritual values (Horwitz, 2021; Sapp, 2017). It can also help universities identify individual student needs, develop appropriate support programs, and design curricula that include a holistic approach between science and religion. The results of research like this will positively

contribute to producing a generation of Islamic scholars who are competent and able to serve religion and society with a deep understanding of biology and the Islamic religion.

METHOD

This study utilizes a qualitative approach that applies Grounded Theory analysis techniques to comprehend the factors influencing the Cumulative Achievement Index (GPA) of Tadris Biology students at Islamic religious universities. Grounded Theory analysis techniques will facilitate the development of theories from the collected data providing comprehensive a understanding of these factors (Babchuk & Boswell, 2023; Holton, 2008; Lambert, 2019). To ensure consistency of findings, the results of Grounded Theory analysis will be validated through triangulation of data from various sources and audited by an independent researcher to guarantee their reliability.

Research Approach

The Grounded Theory will undoubtedly arise from the data generated through analysis. The resulting concepts and themes will be used to create a theory that definitively explains the factors that influence the GPA of Biology Tadris students (Thornberg & Dunne, 2019). This theory will continue to be refined and expanded upon as research progresses, leaving no room for doubt about its accuracy.

Data collection technique

Research data collection used an openended questionnaire to elaborate the issue (Boparai et al., 2018; Krosnick, 2018). Respondents were selected by considering variations in their previous educational background, gender, level of study, and GPA. Interviews will be conducted in depth with structured questions to explore students' Dikomentari [B1]: which factors? Included.

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experiences, perceptions, and views on the factors influencing their GPA.

Data analysis technique

Data generated from interviews and document analysis will be analyzed using initial coding techniques (Cope, 2020; Mihas, 2023). Initial coding involves assigning labels or codes to significant pieces of data that appear in interviews and documents. Then, the coded data will be compared and analyzed to identify patterns and relationships between factors influencing student GPA. This will involve grouping similar codes and identifying critical concepts from the data.

RESULTS AND DISCUSSION

The results of the research show that several factors are assumed by respondents to have played a role in influencing their GPA in the Biology Tadris Department of Islamic Universities.

Department Contribution during High School/equivalent

According to some students, a student's high school major can impact their GPA. Researchers conducted a factor analysis and found that out of the 67 Biology Tadris student respondents, 79% believed their high school major could affect their GPA, while 21% said it did not. Choosing majors in natural science (IPA) during upper secondary education can indirectly affect a student's academic performance, particularly their Grade Point Average (GPA).

This may be attributed to the differences in abilities and understanding gained by students from Natural Sciences departments compared to those from non-Natural Sciences departments (Hasnawati et al., 2023). Students with a background in science majors generally achieve better and more stable academic results than those from non-science majors. The correlation between choosing a high

school central equivalent to Biological Sciences and decreasing GPA suggests that students from natural science backgrounds have an advantage over non-science students, mainly if they have studied biology and natural science subjects in-depth during their upper secondary education. This is because they have a deeper understanding of biological principles and innate scientific knowledge, particularly those who have chosen a biology major. Students who major in Natural Sciences (IPA) during high school tend to get more extensive exposure to science and mathematics subjects (Yusup, 2021).

They are accustomed to deepening complex concepts, which can provide an essential foundation in higher education, including the Tadris Biology department. In this case, the quality and quantity of knowledge they bring to college can provide a significant advantage in understanding and mastering further course material, resulting in better learning outcomes (Yusup, 2021). Therefore, differences in high school educational backgrounds can be considered an influencing factor in student academic achievement.

Gender Differences in Student Grade Point Average (GPA).

The research conducted on 51 students shows significant differences in the Grade Point Average (GPA) between male and female students. Of the respondents, 33 female students obtained high scores, while only six male students achieved similar achievements. On the other hand, eight male students got poor grades compared to only four female students. These findings suggest that females tend to perform better academically than males. In line with these findings, gender has a significant influence on students' academic achievement, with female students performing better than their male counterparts. This result

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is consistent with other research that indicates that gender plays a crucial role in determining students' GPA, which can be attributed to differences in motivation between males and females (Anisa & Ernawati, 2020; Assari & Caldwell, 2018).

Additionally, another research supports these findings, showing that female students tend to have a more satisfactory GPA than male students. This could be because male students often have more external motivation, while female students have more intrinsic motivation. Furthermore, research by Syarif and Irwan (2019) suggests that differences in the level of knowledge between males and females can also be a determining factor in academic achievement.

Lisna (2018) and Novianti (2020) conducted research that indicates significant differences between male and female students' learning outcomes in biology subjects. The study reveals that males tend to pay less attention to lessons, which can contribute to the difference in academic achievement between genders. These findings are consistent with other research conducted by Economists (2015) and Coskun (2014), which suggests that female students are more active and dedicated in the academic field than male students. Thus, it can be inferred that the level of attention and dedication to learning has implications for designing more effective learning strategies for both genders.

Indirect Correlation between Parental Income and GPA

The research results illustrate that parental income influences students' achievement of the Grade Point Average (GPA). In this research, it was revealed that around 75% of respondents, totaling 67 students, experienced a significant influence of their parents' income on their GPA. Meanwhile, approximately 25% of other

respondents stated that their parents' income did not have a substantial impact on their GPA. This shows that the parental income variable has a reasonably strong correlation with student academic achievement, with most respondents feeling a real influence from this factor.

Parental income is a critical factor that influences students' financial well-being during the college study process. Students' success in achieving satisfactory learning outcomes often depends significantly on their ability to meet the needs of tuition fees, books, housing, food, and other costs (Enbeyle et al., 2020; Esau, 2018).

In this context, the results of research conducted beforeexplain that parental education and family income have a significant role in supporting students' success in meeting their needs during the study process (Sari & Rafsanjani, 2020). Parents' level of education can influence their understanding of the importance of education, which can impact the financial support they provide their children during college. Parents' income also plays a crucial role in supporting students because they provide the funds needed to pay educational costs and meet various daily needs.

The results of research conducted also confirm the influence of parental income on student learning outcomes (Putriku, 2018). The income received by student parents can influence their ability to cover educational costs and meet students' living needs, which are often relatively high. Tuition fees, textbooks, housing, and daily living expenses are essential components that must be considered in higher education, and parental income is the primary source of covering these costs.

Therefore, the results of this study confirm that parental income has significant implications for students' academic **Dikomentari** [B8]: make it one paragraph with the previous paragraph.

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performance, with a widespread impact on their ability to study without excessive financial burden, which can ultimately influence satisfactory learning outcomes. This research provides a deeper understanding of the complexity of the relationship between parental income and student learning outcomes and its relevance in designing more adequate financial support programs and higher education policies.

Duration of Social Media Activity and GPA

The research conducted by experts highlights the impact of social media on the academic performance of students majoring in Tadris Biology. The study investigated the relationship between the time spent on social media applications and educational outcomes. The research team collected data from the Tadris Biology students to determine the extent of their social media usage and its impact on their academic performance. The findings revealed that the length of time spent on social media applications had a significant effect on the educational outcomes of students.

Most students allocated more time to social media activities, which harmed their academic achievements. Of the Tadris Biology students who participated in the study, 31% spent more than 6 hours on social media, 25% spent 6 hours per day, 26% spent 4 hours, and 18% spent only 2 hours per day. The data showed that the students who spent more time on social media had poorer academic outcomes, particularly their Grade Point Average (GPA).

The results of this research are consistent with previous studies that have found that students prioritize social media over studying. Sri and his colleagues' research in 2023 found that excessive use of social media had negative implications for academic outcomes (Sugiyanto & Malik, 2023). Similarly, in another research in 2019 found that a high

level of social media usage was inversely related to academic achievement in biology subjects (Fitri, 2019). Students who spent more time on social media and less time studying had poorer educational outcomes . Moreover, the research conducted by Anisa and Ernawati in 2020 also supports these findings, showing that students with a high level of social media usage tend to have lower learning outcomes (Anisa & Ernawati, 2020).

The current research adds to the body of literature by confirming previous findings regarding the long-term negative impact of intensive interaction with social media on academic performance. In conclusion, the data shows that spending excessive time on social media hurts the academic performance of Tadris Biology students. The research findings indicate that students with more time for social media activities tend to have lower educational outcomes. Therefore, it is essential to educate students on the benefits of social media and the need to balance their time between social media and academic activities.

Organizational Activities

The results of this research indicate that there is evidence to suggest that participation in organizations does not have a significant influence on students' achievement of the Grade Point Average (GPA). This finding is in line with previous research, such that conducted by Yolanda and Mohammad in 2020, which stated that some students tend to prioritize academic activities over non-academic activities. Thus, they focus more on lectures than pursuing interests and talents outside the classroom. Furthermore. research conducted by Heri in 2014 also confirmed that the level of activity in organizations does not have a significant impact on students' GPA.

The results of this study can be interpreted as an indication that the impact of

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participation in organizations on students' GPA can vary depending on various factors. In this context, an individual's interests and priorities toward academic and non-academic activities can play an essential role in determining the actual impact organizational membership. In some cases, corporate actions may influence a student positively, while in other cases, students may be more inclined to allocate their time and energy to pursuing academic success. Thus, these findings provide important insights in designing support strategies and programs that more appropriately suit students' preferences and needs in achieving their academic success and non-academic development.

Furthermore, it should be noted that the results of this research do not rule out the importance of participation in organizations on campus. Organizational activities can provide significant benefits regarding leadership skill development, social networking, and experiences outside the classroom. However, these findings suggest that the impact of corporate activities may not always be reflected in students' GPA achievements. For example, a student who is active in an organization may successfully develop valuable social and leadership skills. Still, the time spent in that organization may reduce the time available for academic study.

In making educational decisions, students need to consider the balance between their organizational commitments and their academic priorities. Universities can play a role in providing appropriate guidance and support to help students achieve a good balance between corporate activities and academic achievement. That way, students can optimize their campus experience, combining skill development outside the classroom with rewarding academic achievement. In addition, further research could also explore other factors that influence

the relationship between participation in organizations and student GPA, thereby providing deeper insight into the complexity of this interaction.

CONCLUSION

Factors influencing the Grade Point Average (GPA) of students majoring in Tadris Biology at Islamic religious universities have significant implications for academic achievement. Previous educational background, especially high school majors, plays a vital role in shaping students' initial understanding, where students with a science background tend to have an advantage. The results also confirmed differences achievement between female and male students, with female students achieving higher GPAs, which may be related to stronger intrinsic motivation. Parental income also has a significant impact on academic performance, with students from families with higher incomes having an advantage in terms of financial support. On the other hand, intensive use of social media can be a severe distraction in pursuing academic success, considering that many students spend valuable time in online interactions. However, participation in organizations, although having essential benefits in developing social and leadership skills, does not always have a significant impact on GPA. Therefore, this research provides valuable insight into the complexity of the relationship between various that influence student factors GPA achievement, which can be used as a basis for more effective educational designing strategies, as well as helping students achieve optimal academic success. In the increasingly complex world of higher education, it is essential to help students find the right balance between academic and non-academic activities to take full advantage of their college experience.

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Therefore, we must research the factors that influence the GPA of students majoring in Biology to design more effective learning programs, identify individual student needs, and provide appropriate support to achieve optimal academic success (Hepworth et al., 2018; Scherer et al., 2017; Zollanvari et al., 2017). Research focusing on these factors in the context of students majoring in Tadris Biology can give valuable insights into designing more effective educational strategies. It can also assist colleges in identifying individual student developing appropriate support programs, and creating more relevant curricula.

The results of this kind of research will not only improve the quality of higher education (Putpuek et al., 2018). Still, they will also help produce a generation of biology teachers who are competent and able to provide high-quality education to the next generation (Dennie et al., 2019; Van Overschelde & López, 2018). determinants of GPA for students majoring in Biology are an exciting subject for educational particular, researchers. In previous educational background and gender have been found to play a role in GPA differences. Motivational factors, such as intrinsic and extrinsic motivation, learning methods, level of social support, and psychological and emotional aspects, such as stress or anxiety, can also influence GPA.

In-depth research into these factors in Islamic religious universities is crucial in designing educational approaches that are more effective and relevant to spiritual values (Horwitz, 2021; Sapp, 2017). It can also help universities identify individual student needs, develop appropriate support programs, and design curricula that include a holistic approach between science and religion. The results of research like this will positively

contribute to producing a generation of Islamic scholars who are competent and able to serve religion and society with a deep understanding of biology and the Islamic religion.

METHOD

This study utilizes a qualitative approach that applies Grounded Theory analysis techniques to comprehend the factors influencing the Cumulative Achievement Index (GPA) of Tadris Biology students at Islamic religious universities. Grounded Theory analysis techniques will facilitate the development of theories from the collected data. providing а comprehensive understanding of these factors (Babchuk & Boswell, 2023; Holton, 2008; Lambert, 2019). To ensure consistency of findings, the results of Grounded Theory analysis will be validated through triangulation of data from various sources and audited by an independent researcher to guarantee their reliability.

Research Approach

The Grounded Theory will undoubtedly arise from the data generated through analysis. The resulting concepts and themes will be used to create a theory that definitively explains the factors that influence the GPA of Biology Tadris students (Thornberg & Dunne, 2019). This theory will continue to be refined and expanded upon as research progresses, leaving no room for doubt about its accuracy.

Data collection technique

Research data collection used an openended questionnaire to elaborate the issue (Boparai et al., 2018; Krosnick, 2018). Respondents were selected by considering variations in their previous educational background, gender, level of study, and GPA. Interviews will be conducted in depth with structured questions to explore students'

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experiences, perceptions, and views on the factors influencing their GPA.

Data analysis technique

Data generated from interviews and document analysis will be analyzed using initial coding techniques (Cope, 2020; Mihas, 2023). Initial coding involves assigning labels or codes to significant pieces of data that appear in interviews and documents. Then, the coded data will be compared and analyzed to identify patterns and relationships between factors influencing student GPA. This will involve grouping similar codes and identifying critical concepts from the data.

RESULTS AND DISCUSSION

The results of the research show that several factors are assumed by respondents to have played a role in influencing their GPA in the Biology Tadris Department of Islamic Universities.

Department Contribution during High School/equivalent

According to some students, a student's high school major can impact their GPA. Researchers conducted a factor analysis and found that out of the 67 Biology Tadris student respondents, 79% believed their high school major could affect their GPA, while 21% said it did not. Choosing majors in natural science (IPA) during upper secondary education can indirectly affect a student's academic performance, particularly their Grade Point Average (GPA).

This may be attributed to the differences in abilities and understanding gained by students from Natural Sciences departments compared to those from non-Natural Sciences departments (Hasnawati et al., 2023). Students with a background in science majors generally achieve better and more stable academic results than those from non-science majors. The correlation between choosing a high

school central equivalent to Biological Sciences and decreasing GPA suggests that students from natural science backgrounds have an advantage over non-science students, mainly if they have studied biology and natural science subjects in-depth during their upper secondary education. This is because they have a deeper understanding of biological principles and innate scientific knowledge, particularly those who have chosen a biology major. Students who major in Natural Sciences (IPA) during high school tend to get more extensive exposure to science and mathematics subjects (Yusup, 2021).

They are accustomed to deepening complex concepts, which can provide an essential foundation in higher education, including the Tadris Biology department. In this case, the quality and quantity of knowledge they bring to college can provide a significant advantage in understanding and mastering further course material, resulting in better learning outcomes (Yusup, 2021). Therefore, differences in high school educational backgrounds can be considered an influencing factor in student academic achievement.

Gender Differences in Student Grade Point Average (GPA).

The research conducted on 51 students shows significant differences in the Grade Point Average (GPA) between male and female students. Of the respondents, 33 female students obtained high scores, while only six male students achieved similar achievements. On the other hand, eight male students got poor grades compared to only four female students. These findings suggest that females tend to perform better academically than males. In line with these findings, gender has a significant influence on students' academic achievement, with female students performing better than their male counterparts. This result

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is consistent with other research that indicates that gender plays a crucial role in determining students' GPA, which can be attributed to differences in motivation between males and females (Anisa & Ernawati, 2020; Assari & Caldwell, 2018).

Additionally, another research supports these findings, showing that female students tend to have a more satisfactory GPA than male students. This could be because male students often have more external motivation, while female students have more intrinsic motivation. Furthermore, research by Syarif and Irwan (2019) suggests that differences in the level of knowledge between males and females can also be a determining factor in academic achievement.

Lisna (2018) and Novianti (2020) conducted research that indicates significant differences between male and female students' learning outcomes in biology subjects. The study reveals that males tend to pay less attention to lessons, which can contribute to the difference in academic achievement between genders. These findings are consistent with other research conducted by Economists (2015) and Coskun (2014), which suggests that female students are more active and dedicated in the academic field than male students. Thus, it can be inferred that the level of attention and dedication to learning has implications for designing more effective learning strategies for both genders.

Indirect Correlation between Parental Income and GPA

The research results illustrate that parental income influences students' achievement of the Grade Point Average (GPA). In this research, it was revealed that around 75% of respondents, totaling 67 students, experienced a significant influence of their parents' income on their GPA. Meanwhile, approximately 25% of other

respondents stated that their parents' income did not have a substantial impact on their GPA. This shows that the parental income variable has a reasonably strong correlation with student academic achievement, with most respondents feeling a real influence from this factor.

Parental income is a critical factor that influences students' financial well-being during the college study process. Students' success in achieving satisfactory learning outcomes often depends significantly on their ability to meet the needs of tuition fees, books, housing, food, and other costs (Enbeyle et al., 2020; Esau, 2018).

In this context, the results of research conducted beforeexplain that parental education and family income have a significant role in supporting students' success in meeting their needs during the study process (Sari & Rafsanjani, 2020). Parents' level of education can influence their understanding of the importance of education, which can impact the financial support they provide their children during college. Parents' income also plays a crucial role in supporting students because they provide the funds needed to pay educational costs and meet various daily needs.

The results of research conducted also confirm the influence of parental income on student learning outcomes (Putriku, 2018). The income received by student parents can influence their ability to cover educational costs and meet students' living needs, which are often relatively high. Tuition fees, textbooks, housing, and daily living expenses are essential components that must be considered in higher education, and parental income is the primary source of covering these costs.

Therefore, the results of this study confirm that parental income has significant implications for students' academic Dikomentari [Editor11]: Not found in reference

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performance, with a widespread impact on their ability to study without excessive financial burden, which can ultimately influence satisfactory learning outcomes. This research provides a deeper understanding of the complexity of the relationship between parental income and student learning outcomes and its relevance in designing more adequate financial support programs and higher education policies.

Duration of Social Media Activity and GPA

The research conducted by experts highlights the impact of social media on the academic performance of students majoring in Tadris Biology. The study investigated the relationship between the time spent on social media applications and educational outcomes. The research team collected data from the Tadris Biology students to determine the extent of their social media usage and its impact on their academic performance. The findings revealed that the length of time spent on social media applications had a significant effect on the educational outcomes of students.

Most students allocated more time to social media activities, which harmed their academic achievements. Of the Tadris Biology students who participated in the study, 31% spent more than 6 hours on social media, 25% spent 6 hours per day, 26% spent 4 hours, and 18% spent only 2 hours per day. The data showed that the students who spent more time on social media had poorer academic outcomes, particularly their Grade Point Average (GPA).

The results of this research are consistent with previous studies that have found that students prioritize social media over studying. Sri and his colleagues' research in 2023 found that excessive use of social media had negative implications for academic outcomes (Sugiyanto & Malik, 2023). Similarly, in

another research in 2019 found that a high level of social media usage was inversely related to academic achievement in biology subjects (Fitri, 2019). Students who spent more time on social media and less time studying had poorer educational outcomes. Moreover, the research conducted by Anisa and Ernawati in 2020 also supports these findings, showing that students with a high level of social media usage tend to have lower learning outcomes (Anisa & Ernawati, 2020).

The current research adds to the body of literature by confirming previous findings regarding the long-term negative impact of intensive interaction with social media on academic performance. In conclusion, the data shows that spending excessive time on social media hurts the academic performance of Tadris Biology students. The research findings indicate that students with more time for social media activities tend to have lower educational outcomes. Therefore, it is essential to educate students on the benefits of social media and the need to balance their time between social media and academic activities.

Organizational Activities

The results of this research indicate that there is evidence to suggest that participation in organizations does not have a significant influence on students' achievement of the Grade Point Average (GPA). This finding is in line with previous research, such that conducted by Yolanda and Mohammad in 2020, which stated that some students tend to prioritize academic activities over non-academic activities. Thus, they focus more on lectures than pursuing interests and talents outside the classroom. Furthermore, research conducted by Heri in 2014 also confirmed that the level of activity in organizations does not have a significant impact on students' GPA.

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The results of this study can be interpreted as an indication that the impact of participation in organizations on students' GPA can vary depending on various factors. In this context, an individual's interests and priorities toward academic and non-academic activities can play an essential role in determining the actual impact organizational membership. In some cases, corporate actions may influence a student positively, while in other cases, students may be more inclined to allocate their time and energy to pursuing academic success. Thus, these findings provide important insights in designing support strategies and programs that more appropriately suit students' preferences and needs in achieving their academic success and non-academic development.

Furthermore, it should be noted that the results of this research do not rule out the importance of participation in organizations on campus. Organizational activities can provide significant benefits regarding leadership ski11 development, socia1 networking, and experiences outside the classroom. However, these findings suggest that the impact of corporate activities may not always be reflected in students' GPA achievements. For example, a student who is active in an organization may successfully develop valuable social and leadership skills. Still, the time spent in that organization may reduce the time available for academic study.

In making educational decisions, students need to consider the balance between their organizational commitments and their academic priorities. Universities can play a role in providing appropriate guidance and support to help students achieve a good balance between corporate activities and academic achievement. That way, students can optimize their campus experience, combining skill development outside the classroom with rewarding academic

achievement. In addition, further research could also explore other factors that influence the relationship between participation in organizations and student GPA, thereby providing deeper insight into the complexity of this interaction.

CONCLUSION

Factors influencing the Grade Point Average (GPA) of students majoring in Tadris Biology at Islamic religious universities have significant implications for academic achievement. Previous educational background, especially high school majors, plays a vital role in shaping students' initial understanding, where students with a science background tend to have an advantage. The results also confirmed differences in achievement between female and male students, with female students achieving higher GPAs, which may be related to stronger intrinsic motivation. Parental income also has a significant impact on academic performance, with students from families with higher incomes having an advantage in terms of financial support. On the other hand, intensive use of social media can be a severe distraction in pursuing academic success, considering that many students spend valuable time in online interactions. However, participation in organizations, although having essential benefits in developing social and leadership skills, does not always have a significant impact on GPA. Therefore, this research provides valuable insight into the complexity of the relationship between various factors that influence student achievement, which can be used as a basis for effective designing more educational strategies, as well as helping students achieve optimal academic success. In the increasingly complex world of higher education, it is essential to help students find the right balance between academic and non-academic

activities to take full advantage of their college experience.

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Influential or Influenced: Exploring Factors Affecting Academic Success of Tadris Biology Students in Islamic Higher Education

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ABSTRACT

Islamic Higher Education often serves as a pivotal educational centre, cultivating knowledge and fostering academic growth. Understanding the factors influencing students' academic performance, particularly in specialised fields like Tadris Biology, holds significance in optimising educational strategies and support systems. This study aims to ascertain the variables that impact the Cumulative Achievement Index of Tadris Biology students at Islamic universities. The research methodology employed is qualitative, using Grounded Theory analysis techniques. Data was collected by administering a questionnaire and conducting indepth interviews with 67 students. The findings indicate that prior educational experience, gender, and parental income affect GPA. Students with a scientific background, female students, and those from higher-income households tend to achieve higher GPAs. Conversely, social media usage can hurt academic performance, while involvement in extracurricular activities has no discernible effect. The benefit of this research is that it explores factors affecting the academic success of tardis biology students in Islamic higher education. This research holds inherent value in unravelling the nuanced aspects that shape the academic success of Tadris Biology students within the realm of Islamic higher education. Understanding these dynamics can pave the way for tailored interventions and support systems to enhance student outcomes in this specialised field.

How to Cite

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INTRODUCTION

The Grade Point Average (GPA) is a crucial measure used to assess academic performance in higher education (Alangari & Alturki, 2020; Lim *et al.*, 2022; Warren & Goins, 2019). Students must achieve a high GPA to demonstrate their learning ability and

mastery of their studied material. This imperative extends to undergraduate students specialising in Biology, emphasising the critical need to comprehend the determinants impacting Grade Point Average (GPA). Understanding these factors is pivotal in this academic context. Therefore, studying the

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factors that affect academic performance in this context is imperative. Several factors may be the main determinants, such as previous educational background, gender, intrinsic and extrinsic motivation, learning methods, and psychological and emotional aspects (Akhdan & Aminatun, 2022; Mašić *et al.*, 2020; Negru-Subtirica *et al.*, 2020).

Comprehending these elements is essential in crafting enhanced educational approaches to foster improved learning outcomes and academic success within higher education settings. (Al Breiki et al., 2019; Morsy & Karypis, 2019). In today's world of complex science and modern education, the Tadris Biology department has a crucial role in producing qualified biology teacher candidates. Students in this major must have a deep understanding of biology and solid educational skills. GPA is essential in assessing a student's ability to achieve these goals.

It cannot be denied that the majority of Indonesian students have a target of getting a high GPA while in college. Dengan demikian, we must research the factors that influence the GPA of students majoring in Biology to design more effective learning programs, identify individual student needs, and provide appropriate support to achieve optimal academic success (Hepworth et al., 2018; Scherer et al., 2017; Zollanvari et al., 2017). Research on factors influencing academic success in Biology can guide effective educational strategies. It can also assist colleges in identifying individual student needs, developing appropriate support programs, and creating more relevant curricula.

The identification of student success in research will enhance the quality of higher education.. Still, they will also help produce a generation of biology teachers who are competent and able to provide high-quality education to the next generation (Dennie et al., 2019; Van Overschelde & López, 2018). The determinants of GPA for students majoring in Biology are an exciting subject for educational researchers. In particular, previous educational background and gender have been found to play a role in GPA differences. Motivational factors, such as intrinsic and extrinsic motivation, learning methods, level of social support, and psychological and emotional aspects, such as stress or anxiety, can also influence GPA (Akhdan & Aminatun, 2022; Mašić et al., 2020; Negru-Subtirica, et al., 2020).

In-depth research into the factors that influence the academic success of Biology students at Islamic universities is crucial for designing more effective and relevant educational approaches that align with spiritual values (Horwitz, 2021; Sapp, 2017). It can also help universities identify individual student needs, develop appropriate support programs, and design curricula that include a holistic approach between science and religion. Research plays a crucial role in determining the reasons that hinder student success and developing solutions to design a better educational system. This, in turn, will contribute positively to producing a generation of competent scholars who can serve society and religion with a deep understanding of both biology and Islamic religion. The benefit of such research for science and society is that it can provide an in-depth understanding of the relationship between academic achievement and its impact on individuals, such as job opportunities and community.

METHOD

Research Approach

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This study utilises a qualitative approach that applies Grounded Theory analysis techniques to comprehend the factors influencing the Cumulative Achievement Index (GPA) of Tadris Biology students at Islamic religious universities. The results of Grounded Theory analysis will be validated through triangulation of data from various sources and audited by an independent researcher to guarantee their reliability. The resulting concepts and themes will be used to create a theory that definitively explains the factors that influence the GPA of Biology Tadris students (Thornberg & Dunne, 2019).

Data collection technique

Data collection used an open-ended questionnaire to elaborate on the issue (Boparai *et al.*, 2018; Krosnick, 2018). Respondents were selected by considering variations in their previous educational background, gender, level of study, and GPA. Interviews will be conducted in depth with structured questions to explore students' experiences, perceptions, and views on the factors influencing their GPA.

Data analysis technique

Data generated from interviews and document analysis will be analysed using initial coding techniques (Cope, 2020; Mihas, 2023). Initial coding involves assigning labels or codes to significant pieces of data that appear in interviews and documents. Then, the coded data will be compared and analysed to identify patterns and relationships between factors influencing student GPA. This will involve grouping similar codes and identifying critical concepts from the data.

RESULTS AND DISCUSSION

The results of the research show that respondents assume that several factors play a

role in influencing their GPA in the Biology Tadris Department of Islamic Universities.

Department Contribution during High School/equivalent

According to some students, a student's high school major can impact their GPA. Researchers conducted a factor analysis and found that out of the 67 Biology Tadris student respondents, 79% believed their high school major could affect their GPA, while 21% said it did not. Choosing majors in natural science (IPA) during upper secondary education can indirectly affect a student's academic performance, particularly their Grade Point Average (GPA).

This can be explained by the variation in skills and knowledge acquired by students from Natural Sciences departments compared to non-Natural Sciences departments. Students with a background in science majors generally achieve better and more stable academic results than those from non-science majors. The correlation between choosing a high school central equivalent to Biological Sciences and decreasing GPA suggests that students from natural science backgrounds have an advantage over non-science students, mainly if they have studied biology and natural science subjects in-depth during their upper secondary education. This is because they have a deeper understanding of biological principles and innate scientific knowledge, particularly those who have chosen a biology major. Students majoring in Natural Sciences (IPA) during high school tend to get more extensive exposure to science and mathematics (Yusup, 2021).

They have the ability to explore complex concepts which can provide a strong foundation for higher education, such as Tadris Biology major. In this case, the quality and quantity of knowledge they bring to college can provide a significant advantage in

understanding and mastering further course material, resulting in better learning outcomes (Yusup, 2021). Therefore, differences in high school educational backgrounds can be considered an influencing factor in student academic achievement.

Gender Differences in Student Grade Point Average (GPA)

Research conducted on 51 university students showed a significant difference in the Average Achievement Index (GPA) between male and female students. Of the respondents, 33 female students obtained high scores, while only six male students achieved similar achievements. On the other hand, eight male students got poor grades compared to only four female students. These findings suggest that females tend to perform better academically than males. This result is consistent with other research that indicates that gender plays a crucial role in determining students' GPA, which can be attributed to differences in motivation between males and females (Anisa & Ernawati, 2020; Assari & Caldwell, 2018). Additionally, another research supports these findings, showing that female students tend to have a more satisfactory GPA than male students. This could be because male students often have more external motivation, while female students have more intrinsic motivation. Furthermore, differences in the level of knowledge between males and females can also be a determining factor in academic achievement (Bowman et al., 2022).

Male and female students are learning outcomes in biology subjects (Antika & Haikal, 2019). The study reveals that males tend to pay less attention to lessons, which can contribute to the difference in academic achievement between genders. These findings are consistent with other research that shows that female students are more active and

dedicated in academics than male students. Thus, it can be inferred that the level of attention and dedication to learning has implications for designing more effective learning strategies for both genders (Lundberg, 2020).

Indirect Correlation between Parental Income and GPA

The research results illustrate parental income influences students' Grade Point Average (GPA) achievement. This research revealed that around 75% of respondents, totalling 67 students, experienced a significant influence of their parent's income on their GPA. Meanwhile, approximately 25% of other respondents stated that their parents' income did not substantially impact their GPA. This shows that the parental income variable correlates reasonably strongly with student academic achievement, with most respondents feeling a real influence from this factor.

Parental income is a critical factor influencing students' financial well-being during college study. Students' success in achieving satisfactory learning outcomes often depends significantly on their ability to meet the needs of tuition fees, books, housing, food, and other costs (Enbeyle *et al.*, 2020; Esau, 2018).

In this context, the research results explained that parental education and family income significantly support students' success in meeting their needs during the study process (Sari & Rafsanjani, 2020). Parents' level of education can influence their understanding of the importance of education, which can impact the financial support they provide their children during college. Parents' income also plays a crucial role in supporting students because they provide the funds needed to pay educational costs and meet various daily needs. The research results also confirm

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parental income's influence on student learning outcomes (Putriku, 2018). The income received by student parents can influence their ability to cover educational costs and meet students' living needs, which are often relatively high.

The results of this study confirm that parental income has significant implications for students' academic performance, with a widespread impact on their ability to study without excessive financial burden, which can ultimately influence satisfactory learning outcomes. This research provides a deeper understanding of the complexity of the relationship between parental income and student learning outcomes and its relevance in designing more adequate financial support programs and higher education policies.

Duration of Social Media Activity and GPA

The research conducted by experts highlights the impact of social media on the academic performance of students majoring in Tadris Biology (Bimbi, 2016). This study examines the correlation between social media usage and academic performance in Tadris Biology students. The findings indicate that the duration of social media use significantly impacted students' academic achievement.

Most students allocated more time to social media activities, which harmed their academic achievements. Of several Tadris Biology students who participated in the research, 31% spent more than 6 hours on social media, 25% spent 6 hours daily, 26% spent 4 hours, and 18% spent only 2 hours daily. The data showed that the students who spent more time on social media had poorer academic outcomes, particularly their Grade Point Average (GPA).

The results of this research are consistent with previous studies that have found that students prioritise social media over studying. Excessive use of social media has negative implications for academic outcomes (Sugiyanto & Malik, 2023). Similarly, another study showed that high social media usage was inversely related to academic achievement in biology (Fitri, 2019). Students who spent more time on social media and less time studying had poorer educational outcomes. Moreover, the research also supports these findings, showing that students with high social media usage tend to have lower learning outcomes.

The current research adds to the body of literature by confirming previous findings regarding the long-term negative impact of intensive interaction with social media on academic performance. In conclusion, the data shows that spending excessive time on social media hurts the academic performance of Tadris Biology students. The research findings indicate that students with more time for social media activities tend to have lower educational outcomes. Therefore, it is essential to educate students on the benefits of social media and the need to balance their time between social media and academic activities.

Organisational Activities

The results of this study show evidence of this participation in organizations does not have a significant influence on students' achievement of the Grade Point Average (GPA). Below is a diagram displaying the results of a questionnaire given to respondents, which provides more details.



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More details can be seen in Figure 1 which was obtained from the results of the questionnaire given to respondents.

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This finding aligns with previous research stating that some students prioritise academic activities over non-academic ones. Thus, they focus more on lectures than pursuing interests and talents outside the classroom. Furthermore, the level of activity in organisations does not significantly impact students' GPA (Hasmavni, 2020).

The results of this study can be interpreted as an indication that the impact of participation in organisations on students' GPA can vary depending on various factors. In this context, an individual's interests and priorities toward academic and non-academic activities can play an essential role in determining the actual impact organisational membership. In some cases, corporate actions may influence a student positively, while in other cases, students may be more inclined to allocate their time and energy to pursuing academic success (Slavinski et al., 2021). Thus, these findings provide important insights in designing support strategies and programs that suit students' preferences and needs in achieving academic success and non-academic development.

Next, it should be noted that the results of this research do not rule out the importance of participation in organisations on campus. Organisational activities can provide significant benefits regarding leadership skill development, socia1 networking, and experiences outside the classroom. However, these findings suggest that the impact of corporate activities may not always be reflected in students' GPA achievements. For example, an active student in an organisation may successfully develop valuable social and leadership skills. Still, the time spent in that organisation may reduce the time available for academic study (Hasmayni, 2020).

Students must consider balancing their organisational commitments and academic

priorities in making educational decisions. Universities can play a role in providing appropriate guidance and support to help students achieve a good balance between corporate activities and academic achievement. That way, students can optimise their campus experience, combining skill development outside the classroom with rewarding academic achievement. In addition, further research could also explore other factors that influence the relationship between participation in organisations and student GPA, thereby providing deeper insight into the complexity of this interaction.

CONCLUSION

Factors influencing the Grade Point Average (GPA) of students majoring in Tadris Biology at Islamic religious universities have significant implications for academic achievement. Previous educational background, especially high school majors, plays a vital role in shaping students' initial understanding, where students with a science background tend to have an advantage. The results also confirmed differences in achievement between female and male students, with female students achieving higher GPAs, which may be related to stronger intrinsic motivation. Parental income significantly impacts academic performance, with students from higherincome families having an advantage in financial support. On the other hand, intensive use of social media can be a severe distraction in pursuing academic success, considering that many students spend valuable time in online interactions. However. participation in organisations, although having essential benefits in developing social and leadership skills, does not always significantly impact GPA. Therefore, this research provides valuable insight into the complexity of the relationship between various factors that Dikomentari [Editor12]: Add citations

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influence student GPA achievement, which can be used to design more effective educational strategies and help students achieve optimal academic success. In the increasingly complex world of higher education, it is essential to help students find the right balance between academic and non-academic activities to take full advantage of their college experience.

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