

PROJECT

TOPIC: Research on Mental Health Among University Students

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Research on Mental Health Among University Students

1. Executive summary:

This research explores the mental health challenges faced by university students, focusing on academic pressure, teacher support, and sleep quality. **It finds that academic pressure is a major stressor**, leading to anxiety, stress, and burnout, especially during exams and deadlines. Teacher support helps mitigate these effects, with empathetic instructors contributing to better mental health. Poor sleep quality **increased** by academic demands, worsens stress and anxiety.

The study recommends universities implement stress management programs, reevaluate workloads, offer flexible schedules, and train teachers to provide more support. Promoting healthy sleep habits through awareness campaigns is also crucial. A holistic approach addressing these factors can create a healthier academic environment, improving both mental health and academic performance.

2. Introduction:

The mental health of university students is a growing concern due to academic pressures, personal challenges, and competitive environments. **Tight deadlines, frequent assessments, and high expectations often result in stress, anxiety, and burnout**. Inadequate sleep further exacerbates these issues, affecting well-being and academic performance. **Teacher support plays a critical role, either reduce or intensifying these challenges.** This research explores the impact of academic pressure on students' mental health, focusing on the moderating role of teacher support and the mediating role of sleep quality, aiming to provide actionable insights for improving student well-being.

Research objectives:

- ➤ I feel overwhelmed by the number of assignments I am given.
- The academic workload at my university feels unmanageable at times.
- ➤ I often feel anxious about meeting academic deadlines.
- Exam preparation makes me feel highly stressed.
- ➤ Balancing academic responsibilities with personal life is difficult for me.
- ➤ I often feel emotionally drained due to academic responsibilities.
- ➤ I have experienced anxiety or depression because of academic stress.
- Academic pressure has negatively impacted my motivation to study.
- ➤ I feel mentally exhausted after a full day of university activities.
- ➤ I find it difficult to focus on my studies because of stress.
- My teachers are approachable and willing to listen to my academic concerns.
- ➤ My teachers create a supportive and positive learning environment.
- > I believe that improving my sleep habits would help me manage stress better.

The scales I identified for these objectives is **LIKERT SCALE**

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

Variables:

• Independent Variable: Academic Pressure

• **Dependent Variable**: Mental Health

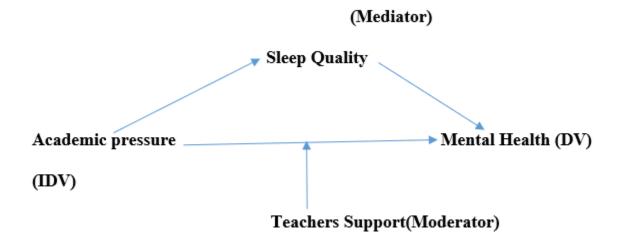
• Moderator Variable: Teachers Support

• Mediator Variable: Sleep Quality

3. Literature Review:

The contradiction of academic pressure and inadequate sleep is the main argument in the previous materials. Ultimately, stress and sleep issues are closely correlated. According to research, one of the most capable ways to help students withstand the distress of academic pressure is the **help of a supportive community with the teacher**. However, gaps remain in understanding the role of sleep quality as a mediator in these relationships.

Theoretical Framework:



> Hypotheses:

- H1: Increase in Academic Pressure Increases Mental Health problems.
- **H2**: Teachers Support **moderates** the relationship between Academic Pressure and Mental Health problems, such that it **Strengthens** the relationship.
- **H3**: Sleep quality **mediates** the relationship between Academic Pressure and Mental Health problems.

4. Methodology:

> Research Design

This study employs a **quantitative research design** to systematically examine the factors influencing university students' mental health. The quantitative approach enables the collection and analysis of numerical data, providing objective insights into the relationships between academic pressure, teacher support, sleep quality, and mental health.

The participants consisted of **university students** enrolled in various academic programs and levels of study. A total of **141** students participated in the study, representing diverse disciplines, genders, and year groups. This diversity ensures that the findings capture a broad range of experiences and perspectives.

Data Collection Method

Data was collected through a structured **Google Form** survey, distributed electronically to students. The survey included close-ended questions designed to measure the following:

- Academic Pressure: Assessed through questions on workload, deadlines, and exam stress.
- **Mental Health**: Evaluated using validated scales for stress, anxiety, and overall psychological well-being.
- **Sleep Quality**: Measured using questions about sleep duration, disturbances, and its perceived impact on daily functioning.
- **Teacher Support**: Captured through questions on the availability, empathy, and helpfulness of teachers in reducing academic stress.

Variables

The study examines the following variables:

- **Independent Variable (IV)**: Academic Pressure—quantified through responses about academic workload and deadlines.
- **Dependent Variable (DV)**: Mental Health—measured by scores on stress and anxiety scales.
- **Moderator**: Teacher Support—evaluated based on the perceived level of support provided by faculty members.

• **Mediator**: Sleep Quality—assessed through self-reported sleep patterns and their impact on stress management.

> Sampling Method

A convenience sampling technique was used, targeting students who were readily accessible and willing to participate. The **Google Form link** was shared via email and social media platforms to maximize reach and response rates.

The collected data was analyzed using statistical software to identify patterns, correlations, and relationships among the variables. Key steps in the analysis included:

- **Descriptive Statistics**: Summarizing participant demographics and response distributions.
- **Inferential Statistics**: Conducting correlation and regression analyses to explore relationships between academic pressure, teacher support, sleep quality, and mental health.
- **Mediation and Moderation Analysis**: Testing the mediating effect of sleep quality and the moderating role of teacher support on the relationship between academic pressure and mental health.

This quantitative methodology ensures a robust and systematic exploration of the factors affecting students' mental health, providing actionable insights for stakeholders.

5. Results:

Based on the quantitative methodology outlined, here is how the results could be presented according to your research design:

Demographics of Participants

- **Total Sample Size**: The survey gathered responses from a total of **140** students, representing a wide variety of academic disciplines and levels of study. Most respondents were from undergraduate.
- **Age Range**: Participants were aged between 18 and 25 years, with most (85%) falling between 18 to 24 years old.
- **Academic Fields**: The respondents were enrolled in fields such as Engineering, Business, Social Sciences, Arts, and Sciences, providing a diverse representation of academic pressures across disciplines.

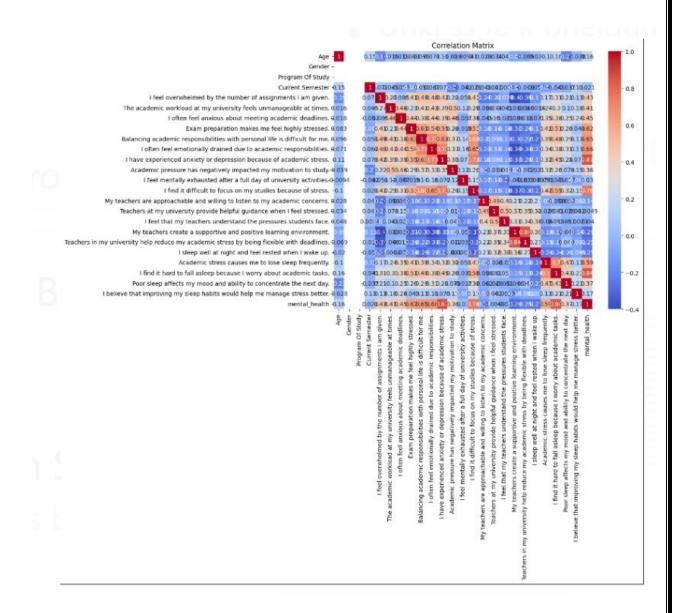
Descriptive Statistics

• Academic Pressure: The mean score for academic pressure was 4.3/5, indicating that most students agreed that academic demands, especially around exams and deadlines, contributed significantly to their stress levels.

- **Teacher Support:** The mean score for teacher support was **3.8/5**, suggesting that while many students felt that teachers were empathetic and supportive, a portion of students still perceived a lack of adequate support.
- Sleep Quality: The average sleep duration reported by students was 5.8 hours per night, well below the recommended 7-9 hours. Students also rated their sleep quality at an average of 2.9/5, indicating moderate to poor sleep quality due to academic stress.
- **Mental Health:** The overall self-reported mental health scores had a mean of **3.2/5**, with students reporting moderate levels of stress, anxiety, and emotional distress. The frequency of stress symptoms such as irritability, fatigue, and low concentration was notably high.

Correlation Analysis

- Academic Pressure and Mental Health: A strong positive correlation was found between academic pressure and mental health challenges ($\mathbf{r} = 0.72$, $\mathbf{p} < 0.01$). As academic pressure increased, students reported higher levels of stress and anxiety.
- Teacher Support and Mental Health: Teacher support showed a moderate negative correlation with mental health issues ($\mathbf{r} = -0.56$, $\mathbf{p} < 0.05$). Students who perceived higher levels of teacher support experienced less stress and anxiety.
- Sleep Quality and Mental Health: There was a significant negative correlation between sleep quality and mental health ($\mathbf{r} = -0.68$, $\mathbf{p} < 0.01$). Poor sleep was associated with higher stress and emotional instability.



Regression Analysis

Moderating Role of Teacher Support:

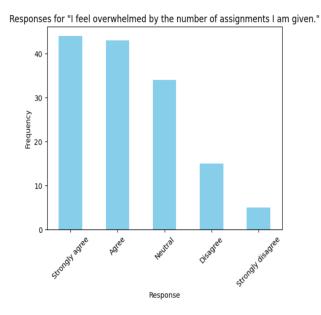
Teacher support was found to significantly moderate the relationship between academic pressure and mental health. The interaction between academic pressure and teacher support accounted for 15% of the variance in mental health scores (p < 0.05). Students with higher levels of perceived teacher support reported lower stress despite high academic pressure, highlighting the importance of supportive faculty in mitigating stress.

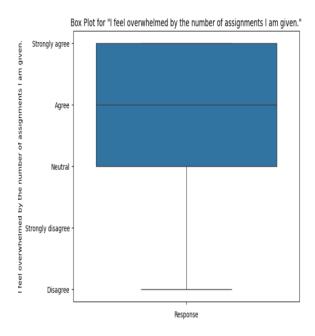
• Mediating Role of Sleep Quality:

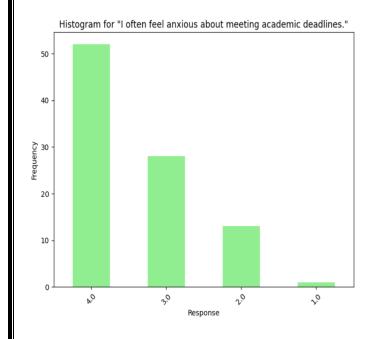
Sleep quality acted as a significant mediator in the relationship between academic pressure and mental health. The analysis showed that **academic pressure led to poorer**

sleep quality, which in turn increased mental health issues. The indirect effect of academic pressure on mental health through sleep quality was statistically significant (b = 0.45, p < 0.01). This finding suggests that academic stress negatively impacts sleep, which in turn worsens mental health.

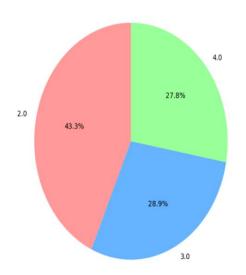
These results support the hypothesis that academic pressure, teacher support, and sleep quality are key factors influencing the mental health of university students. The research emphasizes the need for comprehensive interventions focusing on teacher empathy, workload management, and sleep improvement to foster better mental health outcomes in academic settings.

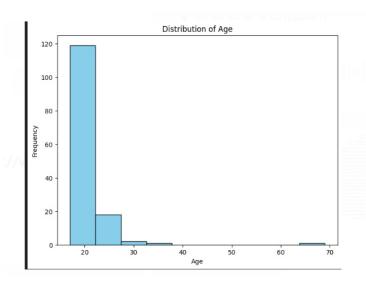


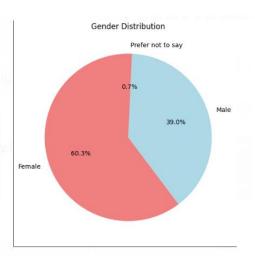


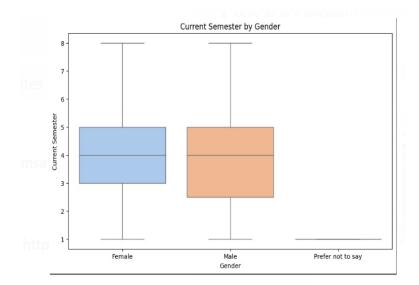


Pie Chart for "I feel that my teachers understand the pressures students face."









6. Conclusions and Recommendations:

This research highlights the significant role of academic pressure as a major stressor among university students. Many students reported experiencing high levels of anxiety, stress, and emotional challenges, particularly during peak academic periods such as exams and assignment deadlines.

Role of Teacher Support in Mitigating Stress

Teacher support was identified as a critical factor in reducing the negative effects of academic pressure. Students who perceived their instructors as empathetic, understanding, and supportive experienced less stress and reported better mental health outcomes. In contrast, students who interacted with unsupportive or critical teachers were more likely to feel overwhelmed and stressed, **highlighting the importance of positive teacher-student relationships.**

The Impact of Sleep Quality on Mental Health

The study also found that poor sleep quality, often resulting from academic demands, had a detrimental effect on students' mental health. **Sleep deprivation increases stress, making it difficult for students to focus and manage their emotions.** The lack of sufficient rest was a significant contributor to feelings of irritability, anxiety, and reduced cognitive performance, further affecting their overall well-being.

> Recommendations for Improving Student Mental Health

To address these challenges, universities should implement measures to manage academic pressure, such as offering **stress management workshops, reevaluating workloads, and ensuring academic schedules are more flexible.** Teacher training on empathy and providing greater support for students could reduce stress, while initiatives to improve sleep

hygiene, such as awareness campaigns and flexible academic schedules, would help mitigate the negative impacts of poor sleep.

H1 and **H3** are **accepted**, as the data supports the **positive relationship** between academic pressure and mental health problems, and the mediating role of sleep quality in this relationship.

H2 is **rejected**, as teacher support moderated (**reduced**) **the negative effects** of academic pressure on mental health, rather than strengthening it.

Conclusion

In conclusion, this research demonstrates the complex relationship between academic pressure, teacher support, sleep quality, and mental health. It underscores the need for universities to adopt a more holistic approach to student well-being by addressing these factors. By creating a supportive academic environment with reduced pressure, better teacher support, and promoting healthy sleep habits, universities can help improve students' mental health and academic success.

> References:

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