

## **1.1 INTRODUCTION**

Sleep is a vital, natural state of rest for both the mind and body, essential for overall well-being. Sufficient sleep is crucial for maintaining mental and physical health, yet sleep deprivation has become a widespread issue in modern society. Quality sleep is necessary for proper functioning, contributing to a higher quality of life. It boosts the immune system, strengthens memory, improves cognitive performance, and enhances mood. In contrast, sleep deprivation is linked to irritability, difficulty concentrating, impaired judgment, and poor memory. Essentially, good sleep is a reflection of both physical and mental health. With the rise of globalization and modernization, sleep-related problems have become more prominent. Research has shown that sleep deprivation can impair performance, while adequate sleep improves learning, problem-solving, and cognitive abilities. A proper amount of sleep enhances daytime alertness, reaction time, and emotional well-being. Though chronic sleep deprivation has not been studied as extensively as total sleep loss, it appears to lead to similar cognitive, emotional, and physical consequences, albeit at varying intensities. Chronic sleep deprivation is now a common issue, impacting a significant portion of the population.

Sleep is a fundamental need, necessary for cognitive clarity, better performance on complex tasks, and a more fulfilling daily life. In essence, sleep nourishes the brain, and insufficient sleep can have serious, even life-threatening, consequences. When deprived of sleep, the brain becomes relentless in its pursuit to compensate, leading to sleepiness, reduced alertness, and poor concentration. In many cases, it can result in unexpected sleep episodes. Chronic sleepiness is also linked to reduced short-term memory, poor learning ability, negative mood, inconsistent performance, and diminished behavioral control. Studying the sleep patterns of university students is crucial for understanding their overall health, academic performance, and lifestyle choices. The transition from high school to university often brings significant changes in students' routines, which can disrupt their sleep schedules. Factors such as academic pressure, social activities, stress, and technology use can all impact the quality and duration of sleep among university students.

## **1.2 SIGNIFICANCE OF THE STUDY**

The significance of this study lies in evaluating the impact that sleep patterns have on a student's academic performance, specifically exploring whether sleep disruptions affect a student's ability to learn, retain information, and perform well academically. By comparing students with regular sleep schedules to those experiencing sleep disturbances, the study aims to identify correlations between sleep quality and academic outcomes. It will also examine how factors contributing to sleep disruptions, such as stress, lifestyle choices, and technology use, influence cognitive functions like memory, attention, and problem-solving skills. By understanding these relationships, the study could highlight the broader implications of sleep habits on mental health, well-being, and long-term academic success. Furthermore, the findings may provide valuable insights for educators, health professionals, and university administrators to develop strategies that help students optimize their sleep, potentially improving academic performance, overall health, and quality of life. Ultimately, this research seeks to emphasize the importance of proper sleep hygiene in fostering a more productive and successful educational experience.

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