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Impact of AI Dependency on Students' Academic Self-Efficacy, Academic Procrastination and Critical Thinking



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BAHRIA UNIVERSITY LAHOR CAMPUS

Impact of Ai Dependency on Students' Academic Self-Efficacy, Academic Procrastination and Critical Thinking



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Thesis Title: Impact of AI Dependency on Students' Academic Self-Efficacy, Academic Procrastination and Critical Thinking

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Dedication

I dedicate this Thesis wholeheartedly to Parents, Siblings, and myself. I am deeply grateful to my parents as I acknowledge that without their guidance and constant love, I would not have become the individual I am today.

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Abstract

This study aims to explore the relationships between AI dependency, academic procrastination, critical thinking, and academic self-efficacy among university students. A sample of 226 university students participated in the study with data collected through self-reported questionnaires for measuring AI dependency, critical thinking, academic procrastination, and academic self-efficacy. Pearson correlation analysis was used to examine the relationship between these variables, while mediation analysis, utilizing the Process Macro for SPSS, was conducted to test the mediating role of procrastination and critical thinking. The results reveal that AI dependency is positively correlated with academic procrastination and negatively correlated with both critical thinking and academic self-efficacy. Additionally, critical thinking is positively associated with academic self-efficacy and negatively associated with procrastination while procrastination was negatively correlated with academic self-efficacy. Mediation analysis showed that both procrastination and critical thinking mediated the relationship between AI dependency and academic self-efficacy, with AI dependency causing more procrastination and reducing critical thinking, which in turn lowers self-efficacy. These results suggest that AI dependency has negatively impacts academic self-efficacy through its effects on procrastination and critical thinking. The findings highlight the importance of addressing procrastination and developing critical thinking skills to alleviate the negative effects of AI dependency on students' academic outcomes.

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List of Abbreviations

Abbreviations	Full Form
APA	American Psychological Association
SPSS	Statistical Package for the Social Sciences
DAI	Dependency Artificial Intelligence
CThQ	Critical Thinking Questionnaire
TPS	Tuckman Procrastination Scale
GASE	General Academic Self-Efficacy

List of Symbols

Symbol	Full Form
α	Alpha Cronbach's Index of Internal Consistency
β	Standardized Coefficient
f	Frequency
M	Mean
SD	Standard Deviation
%	Percentage
r	Correlation Coefficient

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