

FACTORS INFLUENCING STUDENTS' ACADEMIC PERFORMANCE DURING ONLINE CLASSES CASE STUDY AT UITM ARAU, PERLIS.

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ABSTRACT - Online Distance Learning was introduced since 2020 because the origin of the COVID-19 outbreak in Malaysia can be traced back to the first case arriving on Malaysian shores on January 25, 2020, when a passenger from China tested positive for the virus. Because of that, students need to adapt with a sudden new type of learning from home. The changes related to the pandemic has affected the educational context including student itself. The purpose of this study are to determine the relationship and factors influencing students' academic performance (CGPA). Multiple Linear Regression (MLR) and Pearsons' Correlation Analysis was used in this study. The sample of 52 UiTM Arau, Perlis students' from two programme diploma CS143 and degree CS248 College of Computing, Informatics and Mathematics was selected using stratified sampling. The sources of primary data by using online survey form was employed to collect the data. The independent variables for factors influencing students' performance in this study were daily sleeping hours, daily study hours, subject taken, credit hour taken, study environment and study lifestyle. The results of this study shows that the study environment statistically significant influencing to students academic performance (CGPA) with p-value 0.033. Besides, study environment ($r=-0.336$, p-value = 0.007 and credit hour taken ($r=-0.240$, p-value=0.043) significantly has weak negative relationship with CGPA. Meanwhile, others factors showed no significant relationship with CGPA with p-value > 0.05.

Keywords: Students' academic performance, online distance learning, multiple linear regression

1. INTRODUCTION

An excellent academic performance does need a lot of effort and hard work. It does depend on the student themselves. Undoubtedly, every student will achieve a different level of academic performance. Besides, the changes related to the COVID-19 outbreak have also affected the educational context. This study aims to identify the significant factor that influences students' academic performance. Secondly, to examine the relationship between daily sleeping hours, daily study hours, subject taken, credit hour taken, environment, and lifestyle that affect students' academic performance. Another objective of this study is to determine the regression model for the significant factor influencing students' academic performance.

2. METHODOLOGY

For this study, data was collected using an online survey, Google Form. Selected students will be given a link of the questionnaire to be filled in a group WhatsApp. In order to find the significant factors influencing students' academic performance, Multiple Linear Regression was used. Stepwise method in Multiple Linear Regression was applied in this study.

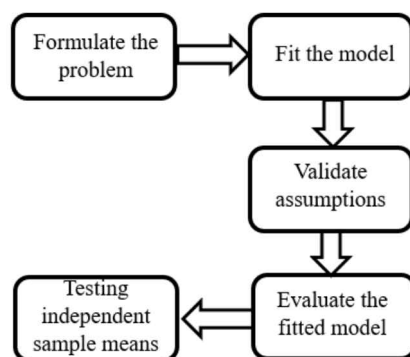


Figure 1. Steps in Multiple Linear Regression.

3. RESULTS AND DISCUSSION

Model		Unstandardized B	Coefficients Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	5.950	1.135		5.243	0.000
	Sleeping hour per day	0.041	0.039	0.142	1.040	0.304
	Study hour per day	-0.003	0.021	-0.020	-0.148	0.883
	Subject taken	-0.077	0.044	-0.230	-1.733	0.090
	Credit hour taken	-0.089	0.054	-0.218	-1.667	0.102
	Study Environment	-0.131	0.059	-0.332	-2.216	0.032
	Study Lifestyle	-0.039	0.072	-0.081	-0.537	0.594

Coefficients
a. Dependent Variable: CGPA for current semester.

Table 1. Coefficient of Independent Variable.

The findings of this study obtained that the variable “Study Environment” is considered statistically significant because the value of the coefficient is -0.131, with p-value of 0.032. Since p-value is less than alpha, 0.05; it can conclude that “Study environment” was a significant factor influencing students’ academic performance during Online Distance Learning.

4. NOVELTY OF RESEARCH / PRODUCT

Multiple Linear Regression is used to identify the significant factor that influences students’ academic performance. Besides, Multiple Linear Regression also can determine the regression model for the significant factor influencing students’ academic performance. Through the use of this method, this study manage to improve the current study.

5. CONCLUSION

In conclusion, this study manages to obtain a factor that influencing students’ achievement during Online Distance Learning (ODL). However, variables “Subject taken” and “Credit hour take have p-values close to the significance threshold which is 0.090 and 0.102 respectively.

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