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Education Loan Repayment and Performances: The Malaysian Graduates Perspectives

Edward Wong Sek Khin¹, Ahmad Nasharuddin², Kamisah Ismail³, Lee Su Teng⁴, Mohammad Nazri⁵
Faculty of Business and Accountancy, University of Malaya, Malaysia.

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ABSTRACT

This study examined the factors that encouraged and influenced the intention to make repayment of education loan, National Higher Education Fund Corporation (PTPTN) in Malaysia. The study adapted the Theory of Reasoned Action (TRA) based on the study of Fishbein and Ajzen (1980) this development was mainly to predict attitudinal influence and behavioral intention. In order to investigate people's thinking process that leads to the decision of repayment, the study would be a descriptive study based on 300 participants who graduated from one of the public university in Malaysia. The correlation analysis resulted from this study confirmed previous researchers' observations that linked higher educational loan repayment commitments with a higher ability to predict attitudinal influence and behavioral intention. The results suggested that among the three factors that were, attitude towards education loan repayment; perception of affordability of loan repayment that affect the quality of life after graduation and perception towards loan agreements were the most important predictors of repayment of education loan management. The findings from this study could assist the National Higher Education Fund Corporation (PTPTN) to understand further their borrower insights in paying back loans owed. The knowledge can also assist policymakers to understand better specific strategies approaches and other relevant matters in making sure that borrowers comply with the repayment conditions while not being a burden to both government and the public.

corresponding Author:

Edward Wong Sek KhinFaculty of Business and Accountancy, University of Malaya, Malaysia.

KEYWORDS: - Education loan repayment, Theory of reasoned action, attitudinal influence, and behavioral intention.

Introduction

There seems to be a never-ending debate over the National Higher Education Fund Corporation (PTPTN) student loans whether it is a burden or a blessing towards students in Malaysia. As more and more new higher education establishments are emerging in Malaysia in the form of public and private institutions, there are more opportunities created for students to enroll

themselves to pursue higher or tertiary education level. As mentioned by Zainal and Ismail (2012), the Malaysian higher education sector has been growing tremendously for the past 10 years or so. The ever-increasing number of enrolment in both public and private institutions indicates that the trend is growing year by year. This result is primarily due to the large number of student loans

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provided by the National Higher Education Fund Corporation (PTPTN) (Zainal and Ismail, 2012).

The increase in number of students and higher learning institutions has resulted in a shortage of scholarships that are available to the students by the relevant agencies. created a gap solved only by the government providing education loans to the students. This financial aid has become a necessity for students who wish to continue their studies (Abu Bakar et al., 2006). Despite the government efforts to help students in achieving tertiary education, many students tend to take it for granted. As the numbers of borrowers grow, the repayment from graduates is very much lower than expected. PTPTN has a number of 11,956 borrowers in 1997 and the amount of borrowers has increasingly year-by-year. The number of borrowers since that time has become RM 1.69 million (cumulative) as of 31 December 2010, and the total amount of PTPTN loans is a cumulative RM 37.4 billion.

This has come to no surprise, as PTPTN has been the driver for students to seek higher level of education in Malaysia. Despite the fact, it is actually public financial educational assistance, this does not mean that students who borrowed from the PTPTN will expect a full subsidy from the government. This would mean that no one has to repay the loan. If this were the case, there is no need for the establishment of PTPTN and a free education system would prevail. Borrowers need to remember that the fund needs replenishment or else it will create burdens and consequences in the future.

According to Ismail, Serguieva, and Singh (2011), Malaysia is one of the countries that have a high loan default rate. Although recent trends are showing an increase in repayments, it is still not enough to sustain the funds required for the future. The inadequacy of repayments may result in stricter rules and regulation by the four policymakers and it might cause major changes to

minimize and address loan defaulters. Byachieving the understanding of graduates towards the repayment of the loans, it can help PTPTN to replenish their funds for future generation. PTPTN has coordinated many efforts to achieve this goal. Among the initiatives taken includes engaging with the public / students, as well as giving discounts to graduates with consistent repayment. This also includes the recently proposed of blacklisting loan defaulters under the Bank Negara's Central Credit Reference Information System (CCRIS) (Ghazali, 2013). This would require new measures commitments from all relevant parties to transform and ensure that the National Higher Education Fund Corporation is sustainable for future generations. Therefore, this study will identify the factors that influence the repayment intention of education loans among graduates in Malaysia.

This study seeks to answer the following research questions:

- What are the factors influencing intention of loan re-payment among graduates?
- Do the graduates' attitudes and perceptions towards PTPTN loans and the repayment of PTPTN loans affect the intention to pay?

Literature Review

Tertiary Education

The importance of higher or tertiary education institution to the development of the nation and its well-being is essential to become a high impact nation. Thus, the affordability of tertiary education to people from all backgrounds is important to achieve this vision. Many governments all over the world have faced such an issue. The level of education debt differs a lot depending on the type of institution a particular student is attending. According to Zainal and Ismail (2011), those students who attend private colleges and universities borrowed the most amount of loan with an average of RM 53,750 and

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RM 31,324 respectively. These figures are most likely to increase year by year as mentioned by Benjamin et al. (2011), a study showed in the USA tuition fees and other fees have been increasing much faster than the cost of other goods over the last decade or so. The combination of rising costs of higher education and the higher costs of living will make education loans a necessity. Such prospects are worrying and most likely the prediction is that this will continue in the future.

Theory of Reasoned Action (TRA)

TRA is a model for the prediction of behavioral intention, spanning predictions of attitude and predictions of behavior. The subsequent separation of behavioral intention from behavior allows for explanation of limiting factors on attitudinal influence (Ajzen, 1980). Fishbein in 1975 and Ajzen developed this model in 1980 that led to the study of attitudes and behaviors. This research applied the TRA model in order to investigate the process that leads to the decision of whether or not to repay a certain loan. The TRA states that the direct forerunner of the decision is This will later loan repayment intention. translates to actual behavior of repayment of loan depending on the degree of the student's evaluation that perceives it as negative or positive.

Attitude of Students toward PTPTN Loan Repayment and Intention to Pay

According to Ismail et al. (2011), the problems in regards to attitude towards loans is seldom touched and understood. This is mainly due to research on attitude were more focused in the field of psychology, and not on finance or debt management. Graduates that have debts are facing difficulties in making repayment of their education loans. What becomes a serious issue is that they are servicing other debts as well (Zainal & Ismail, 2012). As mentioned in a previous study by Price (2004), a student is a loan defaulter

when he or she has a debt load that is above 8 %. The study also found that students that have a high educational debt have lower salaries in average compared to other students. Therefore, the amount of default can be a good gauge when predicting the amount of repayment.

The Link between Attitudes towards Education Loan Repayment.

TRA contains two essential variables, Attitude and Perception of loan repayment as a burden towards loan repayment intention. A student's attitude is the individual's positive or negative feelings (evaluative affect) about loan repayment. The users' desirability and salient beliefs will construct their feelings towards the loan and predicts a user's intention (Ismail et al., 2011). As observed, attitudes have the incentives to repay loan. These observations suggest the following hypothesis

Hypothesis 1: Attitude towards education loan repayment has a positive relationship with intention to repay PTPTN loan.

The link between awareness of PTPTN by the media towards education loan repayment

Ismail et al. (2011) explained that the students are managing their awareness on the loan issues can ensure the efficient use of the money borrowed during their studying years as well as after graduating. Issues created by the media have a positive relationship with loan repayment. Therefore, the following hypothesis is developed:

Hypothesis 2: Awareness of PTPTN issues created by the media has a positively relationship with intention to repay PTPTN loan.

The link between perceived affordability of repayment after graduating towards education loan repayment.

The third hypothesis accommodates the incorporation of perceived quality and affordability of living after graduating. It refers to

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the effects of any diminishing in the quality of living to cope with the affordability of repaying the loan. In other words, borrowers are more likely to prioritize which of the factors in their lives that is more important, i.e., spending or repayment; this includes mortgages, car loans, and other costs incurring life-style decisions.

Hypothesis 3: Perceived affordability of repayment after graduating has a positively relationship with intention to repay PTPTN loan.

The link between perceptions towards loan agreement towards education loan repayment.

The personal perception about loan agreements whether the borrowers understand the agreement well or not could affect loan repayment after graduation, legal consequences for defaulters and their future livelihood. In this regard, the following hypothesis is developed:

Hypothesis 4: Perception towards loan agreement has a positively relationship with intention to repay PTPTN loan.

Research Frameworks

This study examines the influencing factors of education loan repayment in Malaysia. Based on the literature review, it was proposed that the study will use a simplified Theory of Reasoned Action (TRA) in order to illustrate the fundamental processes that lead to loan repayment decisions as what has been introduced by Ismail et al. (2011). Furthermore, the TRA model states that the loan repayment intention is the immediate precursor of the decision of repayment (Ismail et al., 2011). The model (Figure 3.1) summarized the relationship between four independent variables one dependant variable that is and the fundamental framework of the study. independent variables consist of 'Attitude towards Education Loan Repayment'(Attitude), 'Awareness of PTPTN Issues by the Media' (Awareness), 'Perceived Affordability of Repayment after Graduating' (Perception of affordability) and 791

'Perception of Loan Agreement'. The 'Intention to repay PTPTN Loan' has been identified as the dependent variable. The SPSS was used to analyze the data gathered from the respondents and the standard multiple regression was applied to study the relationships between each other.

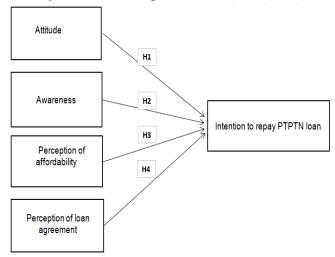


Figure 1: Proposed Research Framework

Methodology

Sampling design and data collection procedure: This research employed a descriptive design to support the study of hypotheses presented. The survey instrument used involved a combination of specific questionnaires for each of the area of attitude, awareness, perception of affordability, perception of loan agreement and includes demographic variables.

These self-administered questionnaires were distributed to a convenience sample of 300 graduates from one of the leading pubic university in Malaysia, using non-probability sampling methods.

Data analysis techniques: The data was analyzed using the Statistical Package for Social Sciences (SPSS) version 16.0 program. A code was established for each variable prior to input into the program.

All Likert Scale points for all questions under a particular measure were summed to produce a new variable.

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The following derived measures from the summing of the Likert Scale points of the respective questions were:

- attitude
- awareness
- perception of affordability
- perception of loan agreement

The data analysis consisted of the following parts:

- Test of normality for each variable using the Descriptive Numerical Method of Skewness and Kurtosis statistics.
- For a test of scale reliability, used was Cronbach's coefficient alpha.
- Determination of the relationship between each dimension of the variables with the education loan repayment program, used was the Pearson correlation coefficient analysis.
- Determination of the linear composite relationship between the above four variables concerning participation in the education loan repayment program, used was Multivariate statistical technique for all variables regression.

RESULTS

Profile of respondents: The majority of the respondents are female (58.8%) while the remaining are male respondents (41.2%). Most of the respondents fall within the age group of 30-39 years (56.4%), followed by those aged from 20-29 years (34.8%). Singles consist of 45.2% while the rest are married. The majority of them hold a Bachelor's degree and most of the respondents are earning between RM3001-6000 (48.4%) followed by those earning between 6001-9000 (36.4%). A distribution of them graduated from public universities and had PIPTN loan. Table 1 below, shows the summary of the respondents' profile.

Table 1: Participant profile				
Characteristics	Frequency	Percent		
Gender				
Male	103	41.2%		
Female	148	58.8%		
Age	140	30.070		
20-29	87	34.8%		
30-39	141	56.4%		
46-49	12	4.8%		
Above 50	10	4.0%		
Marital status	10	4.070		
Single	113	45.2%		
Married	137	54.8%		
Ethnic	137	34.070		
Malay	186	74.8%		
Chinese	41	16.4%		
Indian	23	9.2%		
Qualification	23	9.270		
Doctorate degree	0	0.0%		
Master's degree	68	27.2%		
Bachelor's degree	182	72.8%		
	-	0.0%		
Diploma/certificate <i>Occupation</i>	U	0.0%		
Full time student	41	16.4%		
Private sector	194	77.6%		
Government sector	154	6.0%		
Own Business	0	0.0%		
Unemployed	0	0.0%		
Monthly Income	U	0.070		
RM3000 and below	17	6.8%		
RM3000-RM6000	121	48.4%		
RM6001-RM9000	91	36.4%		
RM9001-RM11000	-	8.4%		
RM11000 above	0	0.0%		
Place of Study	U	0.070		
Public University	189	75.6%		
Private Uni/College		24.4%		
Have PIPTN loan	01	∠ +. +/0		
Yes	169	67.6%		
No	81	32.4%		
INU	81	32.4%		

Table 1. Participant profile

Normality test: The normality of all the variables was tested by assessing the skewness and kurtosis values. When data is normally distributed, the value of skewness and kurtosis are zero, as values outside the range of +2 or -2 demonstrate considerable degrees of non-normality (George and Mallery, 2003). In this study, most of the variables were inside the range of +2 or -2.

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Table 2: Normality test

Variable	Skewness	Kurtosis
AA1	0.189	-0.778
AA2	-0.193	-0.202
AA3	-0.146	-0.689
AA4	-0.258	-0.279
AA5	0.290	-0.911
AC1	0.028	-0.258
AC2	0.000	2.278
AC3	0.066	-0.385
PA1	0.709	0.670
PA2	0.620	0.719
PA3	0.639	0.311
PL1	0.642	0.334
PL2	0.201	0.515
PL3	0.533	0.277
PL4	0.209	-0.176
PL5	0.115	-0.252
PL6	0.232	-0.260
PL7	0.072	-0.280
PL8	-0.203	-0.293

Reliability test: Cronbach's coefficient alpha was used to measure the internal consistency of scale. Its value ranges from 0-1. The tests of reliability were performed on all the measures used. Table 1 below, summarized the Cronbach's coefficient alpha for each measure. A scale is reliable if the coefficient value is more than 0.600 (Hair *et al.*, 1998).

All the measures in this study were found to be reliable with the intention to leave scale having the highest coefficient alpha value of 0.914. The measure having reliability coefficients lower than 0.700 was normative commitment.

Table1. Reliability of measures

		No.	Cronbach's
Measure		of	Coefficient
		items	Alpha
Attitude (A1)		5	0.897
Awareness (A2)		3	0.806
Perception	of	3	0.914
affordability (PA)			
Perception of	loan	8	0.879
agreement (PL)			

Hypothesis 1: Attitude towards education loan repayment has a positive relationship with intention to repay PTPTN loan.

Hypothesis 2: Awareness of PTPTN issues created by the media has a positive relationship with intention to repay PTPTN loan.

Hypothesis 3: Perceived affordability of repayment after graduating has a positively relationship with intention to repay PTPTN loan.

Hypothesis 4: Perception towards loan agreement has a positively relationship with intention to repay PTPTN loan.

Pearson correlation coefficient analysis was used to determine the relationship between attitude, awareness, perception of affordability, perception of loan agreement and education loan repayments. The Pearson Correlation coefficient, which indicates the strength of relationship between the variables. A correlation coefficient between 0.10 and 0.29 indicate a small correlation, while a coefficient between 0.30 and 0.49 indicate a medium correlation and a coefficient between 0.50 and 1.0 indicate a large correlation (Sidin and Zawawi, 2002).

In this study, the Pearson Correlation coefficient (r) between dimensions of attitude, awareness, perception of affordability, perception of loan agreement and education loan repayment for H1, H2, H3 and H4 were as follows:

H1, β =0.320, p>0.05; H2, β = -0.031, p>0.05; H3, β = -0.339, p>0.05 and H4, β = -0.331, p>0.05. Therefore, hypotheses H1, H3 and H4 were fully supported.

Table 2: Pearson correlation between all dimensions of variables

0Attitude twd loan replayment	0.302	
Awareness of PTPN loan	-0.031	
Perception of affordability	0.339	
Perception of loan agreement	0.330	

H1: Attitude towards education loan repayment has a positive relationship with intention to repay PTPTN loan. Supported

H2: Awareness of PTPTN issues created by the media has a relationship with intention to repay PTPTN loan. Not Supported (Not Significant)

H3: Perceived affordability of repayment after graduating has a relationship with intention to repay PTPTN loan. Supported

H4: Perception towards loan agreement has a relationship with intention to repay PTPTN loan Supported.

This research revealed that four of the determining factors that concern the attitude towards an education loan repayment and perception of affordability of loan repayment, will affect the quality of life after graduation and perception towards loan agreement. All of these independent variables were supported the effective and efficiency of education loan repayment program.

RQ1: What are the factors influencing intention of loan repayment among graduates?

There were three factors that influenced the intention of loan repayments among graduates. The factors identified are: attitude towards education loan repayment, the perception of affordability of a loan repayment affects the quality of life after graduation and the perception towards loan agreements. The perception of affordability and understanding the agreement was identified as the most crucial factors that influenced a graduate's intention of loan repayment. Therefore, it is important for PTPTN to ensure that when making the loan to explain to borrowers the terms regarding the loan agreement. PTPTN must spend more effort either to educate or simplify the agreement or both, so that borrowers understands the loan contract. educate **PTPTN** must also students implications for failing to repay the loans. As for students, proper financial planning is important to ensure that they are not trapped in debt.

RQ2: Do the graduates' attitudes and perceptions towards PTPTN loans and the repayment of PTPTN loans affect the intention to pay?

A Graduate's attitude and perceptions towards the PTPTN loan does affect the intention to repay. PTPTN needs to find ways to minimize the negative perception associated with loan repayments. One of the possible ways is through collaboration with the other organizations or institutions of higher learning in Malaysia, as well as providing incentives, a more flexible repayment schedule and taking sterner actions would certainly deter defaulters and encourage more people to repay their loans

Implications of these Research Findings

The findings from this study have revealed the influencing factors of loan repayment intention. It is hoped that the findings could assist the National Higher Education Fund Corporation (PTPTN), to further understand the borrower's insights in repaying the loans. PTPTN benefits would in terms of the following:

- a) The information would be useful to the corporation to work together with the institutions of higher learning to carry out seminars, talks and other programs to change the mindset of the students.
- b) The policy makers and management of PTPTN (Corporation) could the terms and conditions of the loan agreement so that the students do not feel the immediate burden of repayments after graduating.
- c) PTPTN would be able to develop a more comprehensive strategy to suit the market expectations and ensuring that the amount of loan approved is adequate for borrowers.

From the Ministry of Higher Education point of view, the findings from this study could assist in the formulation and implementation of new financial policies and the aid in the direction of

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higher education in Malaysia. This will help to turn Malaysia into a premier destination for higher

education as shown in table 3.

Table 3: Summary of the findings

Problem Statement	Research	Research	Hypotheses	Findings
	Questions	Objectives		
The number of student	a)What are the	a) To discover the	H1: Attitude	H1: Supported due to
taking up PTPTN loans	factors influencing	factors that influences	towards education	significant finding
is increasing year after	intention of loan	the intention of loan	loan repayment	based on the analysis
year, it is important for	re-payment among	repayment among	has a positive	conducted ($\beta = 0.302$,
PTPTN funding to be	graduates?	graduates.	relationship with	p<0.05).
replenished and have			intention to repay	
sufficient funding for		b) To determine the	PTPTN loan.	
future generations.	b) Do the	relationship between		H2: Not supported
However, due to the	graduates'attitudes	graduates' attitudes	H2: Awareness of	due to insignificant
undistinguished	and perceptions	and graduates'	PTPTN issues by	finding based on the
repayments among	towards PTPTN	perception towards	the media has a	analysis conducted
graduates, it will have	loan and the	intention of PTPTN	relationship with	$(\beta = -0.031, p>0.05).$
an immediate impact on	repayment of	loans repayment.	intention to repay	
PTPTN running out of	PTPTN loan affect		PTPTN loan.	
funds for future	the intention to	c) To examine the		H3: Supported due to
students	pay?	effect of graduates'	H3: Perceived	significant finding
		attitudes and	affordability of	J
		perceptions on the	repayment after	conducted ($\beta = 0.339$,
		intention to repay	graduating has a	p<0.05)
		education loans.	relationship with	
			intention to repay	
			PTPTN loan.	
			H4: Perception	
			towards loan	significant finding
			agreement has a	based on the analysis
			relationship with	conducted ($\beta = 0.330$,
			intention to repay	p<0.05)
			PTPTN loan.	

Suggestion for future research

From the Malaysia's context, more studies and research need to be done to determine other potential variables that would influence the loan repayment intention. As Malaysia is a multiracial country and enjoys a diverse culture, studies dealing with the influences of other demographic factors, such as religion and location, on the subject matter are needed.

Conclusion

Based on the findings derived from this study a few recommendations can be proposed in terms of pragmatism. Firstly, the findings useful for PTPTN in terms of revealing factors that influence the behavior and attitude of graduates to so that the PTPTN better understands the problems of non-repayment of educational loan among Malaysian student clients. PTPTN together with the educational institutions must educate and

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instill the necessary values in the students with an emphasis that repaying the loan is their responsibility, a demand to change their attitude towards such debt. This is to ensure that the PTPTN fund is sufficiently financial to help other students to pursue their education. Secondly, most graduates do not have a strong financial capacity upon graduation, so therefore, providing some form of deferment or scheduled repayment scheme would be beneficial to both parties. A graduate who is allowed to wait until their financial situations are stable before starting to commit to repaying the loan is probably more positive in repaying it as part of their current living expenses. At the same time, by lending out smaller amounts of loan, PTPTN will ensure that the burden of repayment will not be onerous for the borrowers. Thus, PTPTN should revise and review the loan amount accordingly. As The Ministry of Education of Malaysia is entity responsible for Malaysian educational matters, it can use this research to assist PTPTN to better understand a borrowers needs and expectations and this would influence repayments. A more comprehensive policy that would benefit both the PTPTN and the students could be developed in order to promote and increase repayments. By having a comprehensive approach and strategies, PTPTN would be able to reduce the number of defaulters. At the same time, it could enhance the effectiveness of their collection activities. The developing of new products and services, PTPTN must emphasize the positive attitudes and perceptions of the new products towards making repayments and thus adding to the pool of available PTPTN funds.

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