

**EFFECTIVENESS OF PROGRAMME 'EXAM SMART'
IN UiTM PENANG**

BY:

**TEOH SIAN HOON
NG SET FOONG
SARINA MD JAM**

APRIL 2006

Surat Kami : 600-UiTMPP (URDC:5/2)

Tarikh : 28 Februari 2005



**UNIVERSITI
TEKNOLOGI
MARA**

PULAU PINANG



Teoh Sian Hoon (Ketua)
Ng Set Foong
Sarina Md Jam
Fakulti Sains Matematik
Universiti Teknologi MARA
Pulau Pinang

**Unit Penyelidikan, Pembiayaan
dan Pengkomersialan**

Permatang Pauh
13500 Permatang Pauh
Pulau Pinang

Tel : 04-3823441 (URDC), 3822

Faks : 04-3822812

email: peridahb@ppinang.uitm.edu.my

Tuan/Puan/Prof.Madya,

KELULUSAN PERMOHONAN UNTUK MENJALANKAN PROJEK PENYELIDIKAN

Perkara di atas adalah dirujuk.

Sukacita dimaklumkan permohonan tuan/puan/Prof.Madya untuk menjalankan penyelidikan telah diluluskan dalam Mesyuarat Jawatankuasa Teknikal Unit Penyelidikan, Pembangunan dan Pengkomersialan Universiti Teknologi MARA (UiTM) Pulau Pinang yang telah diadakan pada 15 Februari 2005.

Butiran permohonan yang diluluskan adalah seperti berikut:

Nama Ketua Projek : Teoh Sian Hoon

Ahli Projek : Ng Set Foong
Sarina Md Jam

Tajuk Penyelidikan : Effectiveness of Programme ' Exam Smart ' in UiTM Penang.

Keputusan : Diluluskan dengan peruntukkan RM 20,000.00

Tempoh : Jun 2005 – Mei 2006

Berikut disertakan dokumen-dokumen untuk panduan dan tindakan pihak tuan/puan/Prof.Madya selanjutnya.

1. Perjanjian bagi menjalankan Projek Penyelidikan, sila isi dan kembalikan kepada pihak kami untuk ditandatangani oleh pihak seterusnya.
2. Borang laporan kemajuan yang perlu dikemukakan kepada pihak kami setiap empat (4) bulan.

Tarikh : 15 Mei 2006
No. Fail Projek : 600-IRDC/ST 5/3/979

Penolong Naib Canselor (Penyelidikan)
Institut Penyelidikan, Pembangunan dan Pengkomersilan
Universiti Teknologi MARA
40450 Shah Alam

Yg. Bhg. Prof.,

**LAPORAN AKHIR PENYELIDIKAN “EFFECTIVENESS OF PROGRAMME
‘EXAM SMART’ IN UiTM PENANG”**

Merujuk kepada perkara di atas, bersama-sama ini disertakan 2 (dua) naskah Laporan Akhir Penyelidikan tersebut untuk makluman pihak Prof.

Sekian, terima kasih.

Yang benar,



TEOH SIAN HOON
Ketua Projek Penyelidikan

TABLE OF CONTENT

CONTENTS	PAGE
Acknowledgement	ii
Table of Content	iii
List of Tables	vi
List of Figures	vii
Abstract	viii
 CHAPTER ONE: INTRODUCTION	
1.1 Introduction	1
1.2 Background of the Study	2
1.3 Problem Statement	3
1.4 Objectives of the Study	4
1.5 Significance of the Study	4
1.6 Research Questions	4
1.7 Hypotheses	5
1.8 Conceptual Framework	5
1.9 Scope of the Study	6
1.10 Definition of Terms	7

ABSTRACT

EFFECTIVENESS OF PROGRAMME 'EXAM SMART' IN UiTM PENANG

This study was done in order to seek solutions for designing a quality instruction and feedback activities to assist students in learning mathematics. With the advent of powerful microcomputer, it is envisaged that quality instruction through multimedia harnessing the attributes of computers to facilitate learning. The purpose of this study was in threefold. First, a systematic and quality instruction with advances of technology was created. Second, a systematic of feedback was created for the learner to take responsibility in directing his or her own learning to develop learning ability. Thirdly, the effectiveness of the quality instruction using technology and feedback activities were investigated. The study was a quasi-experimental study. The treatment modes referred to different strategies, namely mastery learning with technology (MLT), mastery learning without technology (ML), instruction with technology (TT) and the control group (C). In this study the dependent variable was the gain scores. The independent variable was the treatment modes with different strategies, namely MLT, ML, TT and C. This study involved the first semester students. Four classes of engineering students were randomly chosen among the seven classes. The samples consisted of 124 students.