

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/288563224>

# Learning Behavior in Using Portal System for Architecture’s Students in the Research Methodology Course

Article in *Research Journal of Applied Sciences, Engineering and Technology* · December 2012

CITATION

1

READS

74

5 authors, including:



**A. I. Che-Ani**

Universiti Kebangsaan Malaysia

193 PUBLICATIONS 1,117 CITATIONS

SEE PROFILE



**Norngainy Mohd Tawil**

Universiti Kebangsaan Malaysia

130 PUBLICATIONS 685 CITATIONS

SEE PROFILE



**Nurakmal Abdullah Goh**

University Malaysia Sarawak

47 PUBLICATIONS 411 CITATIONS

SEE PROFILE



**Mazlan Mohd Tahir**

Universiti Kebangsaan Malaysia

46 PUBLICATIONS 174 CITATIONS

SEE PROFILE

Some of the authors of this publication are also working on these related projects:



Malaysia Renewable Energy Potential [View project](#)



Construction Education [View project](#)

## Learning Behavior in Using Portal System for Architecture's Students in the Research Methodology Course

<sup>1,3</sup>A.I. Che-Ani, <sup>3</sup>N.M. Tawil, <sup>1</sup>N.A.G. Abdullah, <sup>1</sup>M. M. Tahir and <sup>2,3</sup>A. Zaharim

<sup>1</sup>Department of Architecture,

<sup>2</sup>Head of Centre of Engineering Education,

<sup>3</sup>Centre of Engineering Education, Faculty of Engineering and Built Environment Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor, Malaysia

**Abstract:** E-learning is one approached in the learning style of the courses for UKM Bachelor of Architecture program, namely Research Methodology. The e-learning is not a new paradigm in today's teaching and learning process, thus, using the platform of UKM portal system, SPIN we start to adapt this approach and make it as practical to the students. This study is highlighting 4 learning approaches that might be preferred by the students in encouraging them to use SPIN, namely class contact hours of every 2 weeks time, 1 h lecture, white board style and let the student talk and do. The findings from the study reveals, in principal the students agree to use the SPIN, with the lecturer observing the usage of the system in SPIN via progress monitoring report and correlate the total time, numbers of visit and page hits of the students. High total time does not guarantee the student is an active SPIN user. Nevertheless the study also found that there is a cheater in this system.

**Keywords:** E-learning, learning behavior, research methodology, spin,

### INTRODUCTION

The e-learning is not a new learning platform in Malaysia. Various forms of e-learning portal are available on the internet and almost all Malaysian public universities have its own e-learning platform. Most of them are running on the web-based technology that makes it available from any part of the world at any point of time (Tang and McCalla, 2005). As mentioned by Anuwar (2010), e-learning market had an annual growth rate of 50% up to the year 2004; and the greatest growth rates for e-learning will be in the Asia Pacific region. This shows the e-learning become the most preferred method of learning in the future. Benefits of e-learning include flexibility, accessibility, convenience, cross platform, low delivery costs, ease of update, collaborative learning and scalability (Hansen, 2003; Anuwar, 2010).

There are dramatic impacts in the last few decades that information technology has grown rapidly towards the educational practice (More-Buzetto, 2008; Chou and Tsai, 2002). As the Internet is broadly used for educational purposes, students may have more rich experience of utilizing the Internet. Undoubtedly, appropriate attitude plus basic knowledge towards the Internet is a prerequisite for successful internet based instruction. Tawil *et al.* (2010, 2011) experimenting e-learning mathematics engineering and found that most

students satisfied in using e-learning as their platform of self learning.

However, studies on the fundamental nature of student's use of Internet have not kept pace with their Internet use (Havick, 2000). According to learning theory, learning process is enhance when students participate in the learning, when assignment given help them to get better understanding and it involves critical thinking by applied and reflective activities (Metzger *et al.*, 2003).

Furthermore, e-learning has the potential to become an efficient education tool with low cost (White, 2003). Lord Dearing of the United Kingdom proposed the use of e-learning to resolve problems arising from growing numbers of students and to decrease universities' funding. He also agreed that e-learning will 'accommodate new and innovative learning models and strategies' (Woodfine *et al.*, 2008). In addition, university graduates these days need to be familiar with and knowledgeable of contemporary issues, including ICT knowledge (Zaharim *et al.*, 2009). E-Learning programmes not only reduce costs but also help students to enhance their ICT skills.

In UKM, the e-learning platform is called SPIN system. It provides the benefits as listed by the scholars above. This study provides discussion about learning experience using the SPIN system. It highlights earning