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**UNIVERSITI TEKNOLOGI MARA**

**INFORMATION LITERACY AND FINAL YEAR  
TRAINEE TEACHERS: PERCEPTIONS AND  
PRACTICES OF THE RESEARCH PROCESS**

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Thesis submitted in fulfilment  
of the requirements for the degree of  
**Doctor of Philosophy**


**Faculty of Information Management**

**June 2016**

## AUTHOR'S DECLARATION

I declare that the work in this thesis was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Post Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

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## ABSTRACT

The case study discovers with certainty about information literacy competencies in carrying out research process among trainees of the Malaysian Teacher Education Institute within the five northern region campuses. The Institute has a mission through its dynamic teacher training programmes to produce 21<sup>st</sup> century world-class trained teachers competent in research skills. In doing so, it is highly important to see that these trainees have acquired a comprehensive understanding of information literacy in their research process. Yet, it is a pivotal fact indicated by recent researchers that most future teachers often enter teaching without the necessary information literacy skills and knowledge in research process. An Information Literacy Research Process Model (ILRPM) is developed to explain the trainees' behaviour of information literacy seeking skills in accessing, evaluating and applying their needed information when conducting their research process. The scope of study is based on full-time final year undergraduate trainee teachers for the Educational Degree Programme in Kedah, Perlis and Penang, who are required to conduct their school based action research final project paper. The population is segregated into science and non-science from various teacher education content-area specializations. The study uses an in-depth triangulation analysis to investigate information literacy competency problems and issues faced by the trainee teachers in doing their research process. This research is designed as a qualitative exploratory, descriptive and explanatory survey method that uses mix instruments consisting of a questionnaires survey on study population; and two face-to-face interviews with document analysis of these from the fourteen purposive samples. The three research instruments were mapped to the ILRPM that uses the Information Literacy Standards for Teacher Education (ILSTE) indicators by the Educational Behavioural Sciences Section (EBSS). The findings covers 785 study populations, who believed they can access information (32%), evaluate information (33%) and apply ethical usage of information (35%) through their questionnaire choices. Ultimately, the in-depth interviews and document analysis clearly demonstrate the true understanding of IL seeking skills of these trainees in accessing information (50.28%) and evaluating information (43.1%) as compared to their ability in ethical usage of information (6.62%). The findings had indicated that the IL competencies exist among the northern region trainees; nonetheless, the existence is not equally demonstrated within the trainees' research processes. This research hopes to specify a clear cut cross section of what the Malaysian trainee teachers had to endure concerning information literacy in research process. The findings can present insights to the ministry's stakeholders on ways to move forward in terms of needs, process and outcomes according to the Malaysian National Information Literacy Agenda (NILA) in fulfilling the Malaysian Higher Education Blueprint 2015-2025.

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## **CHAPTER ONE**

### **INTRODUCTION**

#### **1.1 INTRODUCTION OF THE STUDY**

The 21<sup>st</sup> century education has contemplated changes on research skills among undergraduates. Many researchers regard 'Information Literacy Seeking Skills' of *accessing, evaluating and applying* appropriate information in the content-area of specializations (Breivik, 1998; Breivik & Gee, 2006; Mohd Sharif, 2008) as the backbone of information literacy (IL) competencies. Recently, researchers have shown an interest on IL in teacher education. Teacher trainees today rely on more IL skills compared to their predecessors in doing their research process. These skills of navigation, evaluation and usage of information competently are vital for projecting teaching and learning processes (Jenkins, 2006). Significantly, a trainee's competency in research processes also changes to meet the newly established standard (Education & Behavioural Science Section [EBSS], 2011). Despite this, other researchers like Carr (1998), Maimunah Kadir and Mohd Sharif (2003); Laverty and Reed (2006), Mohd Sharif (2008), Gandhe (2011), Kocic (2012); and British Educational Research Association [BERA] (2014) have found trainees often enter into teaching without the necessary IL seeking skills in conducting educational research process.

Breivik (1998); Breivik and Gee (2006); and Mohd Sharif (2008) defined an 'educated graduate' as one that not only have absorbed their content-area of specialization, but also has the IL seeking skills in research process. The new millennium begins with the Secretary's Commission on Achieving Necessary Skills (SCANS, 2000) acknowledged this. Later, Schleicher and Rubin (2012) coined it as the 21<sup>st</sup> century fundamental skills for teachers in collaboration with educational research process. In today's context, the Education and Behavioural Science Section (EBSS, 2011) outlined these lifelong skills as the Information Literacy Standard for Teacher Education that enables the assessment of teacher education instruction and curricula through benchmark outcomes.