

UNIVERSITI TEKNOLOGI MARA

**IDENTIFICATION OF AREA CHANGES THRESHOLD
BETWEEN DOCUMENT OF TITLE AND CADASTRAL
NETWORK DATABASE IN LEAST SQUARE ENVIRONMENT**

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Dissertation submitted in partial fulfillment
of the requirements for the degree of
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AUTHOR'S DECLARATION

I declare that the work in this dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results 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 Department of Survey and Mapping Malaysia (JUPEM) and Land Offices are two important organizations for managing and maintaining the land administration system and also responsible for cadastral survey and ownership rights in Peninsular Malaysia. Both organizations have their own information systems called eCadaastre in JUPEM and eLand in Land Offices. Nonetheless, the eCadaastre and eLand systems work differently. This research was carried out to suggest a good tolerance of difference in area between documented value in document of title and NDCDB. In addition, the objectives are to compile selected data of certified plan from Land Registry Office and NDCDB in Mukim Arau, to analyse the difference in area between certified plan from Land Registry Office and JUPEM's NDCDB and lastly to propose a good tolerance from the analysis of optimum difference area. A total of 100 certified plans will be overlay with NDCDB to found out the difference in area using MapInfo software. Based on the optimum difference area, a good and acceptable tolerance between certified plan and NDCDB will be proposed.

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