

UNIVERSITI TEKNOLOGI MARA

**FLOOD IMPACT MAPPING ON RURAL PLACE:
A CASE STUDY IN BALING, KEDAH**

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**BACHELOR OF SURVEYING SCIENCE AND
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Thesis submitted in fulfilment
of the requirements for the degree of
Bachelor of Surveying Science and Geomatics (Honours)

College of Built Environment, CBE.

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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 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 Under - Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

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ABSTRACT

Flood is one of the hazards that happens once in a while and happened when there is an excessive of water. The land use land cover can give the impact towards the flood. Besides, when there is the changing in the surface condition such as the reduction of vegetation can produce the flood. In addition, the flood flows will increase and the chances to get the flood will higher. The aims of this research are to investigate the flood impact at rural place in Baling by using the integration of the remote sensing and GIS approach. The objective of this research is to produce the flood risk map and land use land cover in Baling, Kedah and to analyze the flood impact towards the land use land cover in Baling, Kedah in Year 2022. The GIS approach is used to process all of the data that is needed to get the result of this study. The result shown in this research is the flood risk map in Baling area. Based on the indicators that shown in the map, there are five risk classes which is very high, high, moderate, low and very low. From the map, the analysis between land use land cover have been analyzed. By using this map, it will help the communities to prevent flooding at the high-risk areas.

TABLE OF CONTENTS

	Page
CONFIRMATION BY PANEL OF EXAMINERS	ii
AUTHOR'S DECLARATION	iii
ABSTRACT	iv
ACKNOWLEDGEMENT	v
TABLE OF CONTENTS	vi
LIST OF TABLES	ix
LIST OF FIGURES	x
LIST OF ABBREVIATIONS	xii
CHAPTER ONE INTRODUCTION	1
1.1 Research Background	1
1.2 Problem Statement	3
1.3 Aim of the study	4
1.4 Research Objectives	4
1.5 Research Question	4
1.6 Scope and Limitation	5
1.7 Significance of Study	5
1.8 Thesis Outline	6
1.9 Summary	6
CHAPTER TWO LITERATURE REVIEW	7
2.1 Introduction	7
2.2 Flood	7
2.3 Flood Mapping Parameters	8
2.3.1 Slope	10
2.3.2 Land Use Land Cover	11
2.3.3 Rainfall	12