



**UNIVERSITI TEKNOLOGI MARA**

**ASSESSMENT OF BEACH MORPHOLOGY AT  
DUNGUN COAST**

**AHMAD WAHBI BIN ABDUL MAJID**

Thesis submitted in fulfilment of  
requirements for the degree of  
**Bachelor of Surveying Science and Geomatics (Hons)**

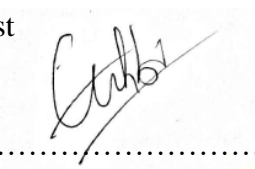
**Faculty of Architecture, Planning and Surveying**

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## AUTHOR'S DECLARATION

I declare that the work in this thesis/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.

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Name of Student : Ahmad Wahbi bin Abdul Majid  
Student I.D. No. : 2017768421  
Programme : Bachelor of Surveying Science and  
Geomatics (Honours) – AP220  
Faculty : Architecture, Planning & Surveying  
Thesis/Dissertation Title : Assesment of Beach Morphology at Dungun  
Coast  
Signature of Student :   
Date : 20<sup>th</sup> FEBRUARY 2021

## **ABSTRACT**

The coastal zone represents diverse and highly productive ecosystems, such as mangroves, coral reefs, aquatic grasses and sand dunes. Such habitats are under threat as a result of globalization, due to increased anthropogenic activities on the coast. These coastal ecosystems need to be protected in order to ensure sustainable development. The key erosion causes along the coast are primarily due to natural cycles or human activities. The increasing of the eustatic ocean level (SLR) is also a major concern, particularly in low-lying seaside nations and zones. This research is conducted to study the beach profile along the beach in order to produce a visualization of the beach. Just 12 per cent of the total Terengganu coastline is under severe erosion, according to extensively reported studies. Beach profile survey and interpolation technique was used to define and explain the difference in beach profile characteristics along the Dungun beach coastline. From this survey method, the net shore drift can be calculated dependent on the data observed. The result showed that there are two of Management Unit which is MU 1 and 5 that have been analysed as the lowest slope profile percentage with Average MU Slope percentage about 5.371% and 5.123%. Next, the infrastructure and coastal community that could be risky toward erosion too have been identified which is MU 1 and MU 5. To sum up this research work, the study findings could be useful in order to important decision-making to protect and mitigate steps toward sustainable coastal management along Dungun coastline.

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