

UNIVERSITI TEKNOLOGI MARA

**STRUCTURE DESIGN AND
STRENGTH ANALYSIS OF GRP
COMBINATION BETWEEN JETSKI
AND FRONT ATTACHMENT**

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ABSTRACT

This research's approach is to create the Jet ski attachment frame structure using the FRP construction standard as a reference, and then analyse the structure's strength using various calculations based on the developed design. The important of ship structure is to resist the wave impact loading. The issues for this project is to find the suitable factor of safety for jet ski attachment. The problem for this project is need to know how to design framing system and structure so that can achieve suitable factor of safety. The proposed is to framing system and structure design of the jet ski attachment. To design the structure design, standard manual have been use as a reference for this project which is FRP construction standard. The framing system and structure design analyse from the project meet the factor of safety. Conclusion for this project is the framing system and structure design meet the engineering safety factor. For the future research the advance software should be use to validate the factor of safety of the jet ski attachment.

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