# UNIVERSITI TEKNOLOGI MARA

# PRODUCTION DEVELOPMENT OF MULTI PURPOSE TERENGGANU FISHING BOATS

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#### ABSTRACT

The project Production Development for Multi-Purpose Terengganu Fishing Boat aims to enhance the fishing productivity of Terengganu's local fishermen. Terengganu's small-scale fishing industry is pivotal to its economy but faces challenges such as high operational costs and the inefficiency of current boats in varying water environments. The primary problem is the inability of existing boats to operate effectively in both freshwater and saltwater, coupled with the high cost of materials used in boat construction. The objectives are to develop a multipurpose hull and identify low-cost materials suitable for both water types. The methodology includes collecting data, conducting a literature review, analysing options, and developing detailed designs using software tools like PolyCAD and SolidWorks, followed by creating a 3D mock-up. The expected outcome is the creation of a fishing boat that is safe, cost-effective, and efficient, capable of operating in both freshwater and saltwater environments, thereby improving the economic viability of the small-scale fishing industry in Terengganu. Recommendation includes refining the design, apply sustainability manufacturing method and explore the sustainability materials. In conclusion, this project includes the practice of modern engineering into marine engineering to improve the ship production capabilities.

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