

**UNIVERSITI TEKNOLOGI MARA**

**MINI HOUSEBOAT DESIGN AND  
DEVELOPMENT**

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## ABSTRACT

. The mini houseboats, also known as tiny houseboat or compact floating homes, are small, mobile dwellings designed for living on the water. The project research of mini houseboat want design a houseboat that suitable for 2 people and operates and calm water only as field of study. The current houseboat today is not suitable for tourist that love personal holiday. The cost of operating a houseboat alone is very high, furthermore, the cost of maintenance is expensive. The tourist needs a small houseboat with a cheaper rent price that provides all daily human needs including safety. The objective of this project is to develop a detail drawing of mini houseboat that is suitable for 2 people. After that, the project wants to compare the optimum production method for mini houseboats that has the lowest cost. From the research the project founded that the most optimum method that have the lowest cost is hand lay-up and the design of mini houseboat have been complete with detail drawing part by part. The result have been prove by using weight estimation calculation of raw material then proceed to the Bill Of Material (BOM) where the result founded that hand lay-up method is more cheaper with differences RM 1425.57. The project benefit is it will provide a new branch for recreational activities in calm water areas. The tourist will also have a good experience of a holiday while enjoying the beauty of nature. The methods of this project want to use is a mini houseboat will design using computer-aided design CAD Solid Work, using the sketch that has been planned.

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