

**BENDING STRENGTH PROPERTIES OF SMALL CLEAR SPECIMENS WOOD  
FROM MERBAU AND GELAM**

BY

**AZHANIM BT GHAZALI**

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Faculty of Applied Sciences,  
Universiti Teknologi Mara, Caw. Pahang**

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Abstract of final project presented to the University Teknologi MARA fulfillment of the requirements for the Diploma in Wood Industry

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**Advisor: Mr. Wan Mohd Nazri B. Wan Abdul Rahman**

**Faculty: Applied Science**

This project was carried out with the objective of obtaining the differences bending strength of small clear specimen from Merbau (*Intsia palembanica*) and Gelam (*Melaleuca* spp.) and also to know the mode of failure. The strength were include Modulus Of Elasticity (MOE) and Modulus Of Rupture (MOR). The specimen size is 20x20x300 mm for the British standards, BS 373:1957, using metric units, with an actual 28 in 280 mm span respectively. The load is applied at the centre of the span at a constant speed of 0.10 in/min for the 2 in standard and 0.11 mm/sec for the 20mm standard, until the test specimen fails. The result shows that Merbau had the highest value of MOE and MOR with 12878.13 Mpa and 93.10 Mpa and Gelam had the lowest of MOE and MOR with 9251.95 Mpa and 70.28 Mpa.