

**FURNITURE DESIGN: TELEVISION CABINET USING RECYCLE
MATERIALS (SOLID WOOD WASTE)**

SYAZWAN BIN IZA

**This Final Year Project Report Submitted in Partial Fulfilment of the
Requirements for the Degree Bachelor of Science (HONS.) Furniture
Technology in the Faculty of Applied Sciences, University Technology MARA**

JULY 2016

CANDIDATE'S DECLARATION

I declare that the work in this thesis was carried out in accordance with the regulation of University Teknologi MARA. It is original and is the results of my work, unless otherwise indicate or acknowledged as reference work. This thesis has not been submitted to any academic institution on non-academic institution for any other degree or qualification.

In the event that if my thesis is found violent the condition mentioned above, I voluntarily waive the right of conferment of my degree and agreed to be subjected to the disciplinary rules and regulation of University Teknologi MARA.

Sign of Candidate : 

Name of Candidate : Syazwan Bin Iza

Candidate Matrix ID : 2014873312

Programme : Bachelor of Sciences (Hons.) Furniture Technology

Faculty : Applied Sciences

Thesis Title : Furniture Design: Television Cabinet Using Recycle
Materials (Solid Wood Waste)

Date : 25 JULY 2016

ABSTRACT

Furniture Design: Television Cabinet Using Recycle Materials (Solid Wood Waste)

The purpose of the study is to design and produce a television cabinet using recycle materials (solid wood wastes). This is to ensure the using of green wood can be reduced by utilizing solid wood waste as available raw material. The design of this furniture is only customized for television cabinet whereas the final user able to understand what is the purposed of this product. This has been proved that television cabinet using recycled material (solid wood waste) was successfully made. 100 correspondences were given questionnaire and majority of the correspondences rate this product as can be commercialized and promoted to the market. As the majority of the rating is being rated at moderated by all correspondences thus it can be accepted that this television cabinet using recycle material have the potential to replaced furniture that is made from green wood.

TABLE OF CONTENTS

	Page
APPROVAL SHEET	i
CANDIDATE'S DECLARATION	ii
ACKNOWLEDGMENT	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vi
LIST OF FIGURES	vii
LIST OF PLATES	viii
LIST OF ABBREVIATIONS	ix
ABSTRACT	x
ABSTRAK	xi
CHAPTER	
1.0 INTRODUCTION	1
1.1 Background of Study	1
1.2 Problem Statement	3
1.3 Justification	4
1.4 Objectives	4
2.0 LITERATURE REVIEW	5
2.1 Furniture Industry	5
2.2 Design	8
2.3 Recycling Solid Wood	9
3.0 MATERIALS AND METHODS	11
3.1 Materials	11
3.2 Methodology	12
3.2.1 Design Process	13
3.2.2 Problem Identification	13
3.2.3 Research Analysis	13
3.2.4 Product Design	14
3.2.5 Mock-up	17
3.2.6 Production	18
3.2.7 Product Preparation	19

3.2.8	Survey	23
3.2.9	Data Analysis	24
4.0	RESULTS AND DISCUSSIONS	28
4.1	Statistical Analysis of Television Cabinet	29
4.2	Discussion	30
4.2.1	Recycled Solid Wood Suitable as Material in Making Furniture	30
4.2.2	Aesthetic Value of the Product	31
4.2.3	Design of the Product	32
4.2.4	Suitability of the Finishing Process	33
4.2.5	Price Range between RM 200 to RM 250	34
5.0	CONCLUSIONS AND RECOMENDATIONS	36
5.1	Conclusions	36
5.2	Recommendations	37
	REFERENCES	38
	CURRICULUM VITAE	40
	PUBLICATION OF THE PROJECT REPORT UNDERTAKING	41
	PERMISSION FOR REFERENCES AND PHOTOCOPYING	42