

**SMALL SPACE MULTIFUNCTIONAL FOLDING TABLE
WITH STORAGE**

AIN ZUBAIDAH BINTI MHD HILMI

**BACHELOR OF SCIENCE (Hons.) FURNITURE TECHNOLOGY
FACULTY OF APPLIED SCIENCES
UNIVERSITI TEKNOLOGI MARA**

AUGUST 2021

ABSTRACT

SMALL SPACE MULTIFUNCTIONAL FOLDING TABLE WITH STORAGE

In this study, Small Space Multifunctional Folding Table with Storage has been designed and planned to use wood as the main raw material for producing the product. The objectives of the study were to create a new multifunctional folding table that can be used in a small space area. It also determines the potential customer's satisfaction towards the function and appearance of the table. The survey was done by distributed a set of questionnaires through Google form to 102 respondents in Jerantut, Pahang. Few variables have been analysed to match with the potential customer's satisfaction which are the raw material used, function, design and marketing of the product. Based on the result, shown most of the correspondents were agreed with the function and design to be applied to the table. They also agreed with the table to be commercialized in the market. In general, all the hypotheses were accepted.

ACKNOWLEDGEMENTS

Alhamdulillah, firstly, I would like to thank Allah S.W.T because of His blessings I was able to complete my research project. A million thanks to my project Coordinator, Dr. Siti Zalifah Binti Mahmud for her guidance and support. I also like to thank my supervisor, Madam Ainul Munirah Binti Abdul Jalil and my co-supervisor, Madam Sharifah Norhuda Binti Syed Wahid for all of their continuous guidance and patience in guiding me from the beginning until I completed my final year project. A special thank also goes to all my friends from class AS247 6A and 6B for helped me by giving their suggestions and also ideas about my product. Lastly, I would like to be grateful to my family especially my mom, for supporting me to finish my thesis. Thank you for always stay by my side especially during this challenging period because of the Covid19 outbreak. Without all of them, I would not be able to complete my thesis about Small Space Multifunctional Folding Table with Storage.

TABLE OF CONTENTS

ABSTRACT	iv
ABSTRAK	v
ACKNOWLEDGEMENTS	vi
TABLE OF CONTENTS	vii
LIST OF TABLES	ix
LIST OF FIGURES	x
LIST OF PLATES	xi
LIST OF ABBREVIATIONS	xii
CHAPTER 1 INTRODUCTION	1
1.1 Background of the Study	1
1.2 Problem statement and Justification	2
1.3 Significance of the study	3
1.4 Objectives of the study	4
CHAPTER 2 LITERATURE REVIEW	5
2.1 Furniture	5
2.2 Multifunctional furniture	6
2.3 Foldable Table	7
2.4 Anthropometric and ergonomic	8
2.5 Raw Material	8
2.5.1 Wood	8
2.5.2 Fastener	10
2.5.3 Finishing	12
CHAPTER 3 METHODOLOGY	15
3.1 Material selection	15
3.2 Product design process	15
3.2.1 Collecting information	16
3.2.2 Problem identification	16
3.2.3 Research analysis	17
3.2.4 Sketches	17
3.2.5 Design evaluation and selecting	19
3.2.6 Mock-up preparation	20
3.3 Virtual Prototype	20
3.4 Prototype preparation process	22
3.4.1 Raw material preparation	22
3.4.2 Cutting	23
3.4.3 Sanding Process	23

3.4.4	Assemble process	23
3.4.5	Finishing	24
3.4.6	Final product	24
3.5	Data collection	25
3.6	Data analysis	25
CHAPTER 4 RESULTS AND DISCUSSION		26
4.1	Introduction	26
4.2	Demographic analysis	26
4.3	Descriptive analysis	29
	4.3.1 Descriptive analysis of Factors	33
4.4	Comparative analysis	34
4.5	Correlation analysis	38
4.6	Discussion	40
	4.6.1 Pallet wood is the main material	40
	4.6.2 Small space multifunctional folding table with space minimizing concept.	41
	4.6.3 The simple design and attractive appearance of small space multifunctional folding table with storage.	43
	4.6.4 The small space multifunctional folding table with storage can be commercialized to the market	44
CHAPTER 5 CONCLUSION AND RECOMMENDATION		46
5.1	Conclusion	46
5.2	Recommendation	47
CITED REFERENCES		48
APPENDICES		50
CURRICULUM VITAE		70