

**PHYSICAL AND MECHANICAL PROPERTIES OF OIL PALM
LUMBER**

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**Final Year Project Report Submitted in
Partial Fulfilment of the Requirements for the
Degree of Bachelor of Science (Hons.) Furniture Technology
in the Faculty of Applied Sciences
Universiti Teknologi Mara**

JANUARY 2012

ACKNOWLEDGEMENT

Assalamualaikum w.b.t

Firstly, I would like to express my thanks to the Almighty for His blessing to give me chance to finish this project paper. I also would like to express my deepest appreciation and sincere gratitude to my supervisor, Madam Noorshillawati Azura binti Mohammad for unfailing help, support and guidance through the study. Sincere thanks are also due to Dr wan Mohd Nazri for his guidance. To my beloved friends who in one way or another contributed invaluable support and encouragement towards the completion of this study. Last but certainly not least, to my parents and family. Thank you all for everything.

TABLE OF CONTENTS

	Pages
DEDICATIONS	li
CANDIDATE'S DECLARATION	lii
ACKNOWLEDGMENTS	lv
TABLE OF CONTENTS	v
LIST OF TABLE	vii
LIST OF FIGURES	viii
LIST OF PLATES	ix
LIST OF ABBREVIATIONS	x
ABSTRACT	xi
ABSTRAK	xii
CHAPTER 1 INTRODUCTION	
1.1 Background	1
1.2 Statement of the Problem	4
1.3 Justification	5
1.4 Objectives	5
CHAPTER 2 LITERATURE REVIEW	
2.1 Characteristic of Oil Palm	6
2.1.1 Botanical Description of Oil Palm	7
2.1.2 Cortex	8
2.1.3 Periphery	8
2.1.4 Central	8
2.1.5 Vascular bundles	8
2.1.6 Parenchymatous Tissue	9
2.2 Physical Properties of Oil Palm	11
2.2.1 Moisture Content	11
2.2.2. Density	12
2.2.3 Shrinkage	14
2.3 Mechanical Properties of Oil Palm Trunk (OPT)	14
2.4 Uses of Oil Palm as Material for Furniture Industry in Future	17
CHAPTER 3 MATERIALS AND METHODS	
3.1 Material Preparations	18
3.2 Wood Specimen Manufacturing for Density and Moisture Content	19
3.2.1 Determination of Moisture Content and Density	20
3.3 Wood Specimen Manufacturing	22
3.4 Method of Testing	24
3.4.1 Bending Testing (MOE and MOR)	25
3.4.2 Compression Strength	26
3.5 Experimental Design	27
CHAPTER 4 RESULTS AND DISCUSSION	
4.1 Mechanical Properties	29
4.1.1 Effect of Trunk Portion on Mechanical Properties	31
4.1.2 Effect of Layers within the Trunk on Mechanical Properties	35

4.2 Physical Properties	39
4.2.1 Moisture Content of Oil Palm Trunk	40
4.2.2 Density and Specific Gravity of Oil Palm Wood	41
CHAPTER 5 CONCLUSION AND RECOMMENDATIONS	43
BIBLIOGRAPHY	45
APPENDICES	51
VITAE	73

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ABSTRACT

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This study determines physical and mechanical properties of Oil palm trunk with variables of layer (S1, S2 and S3) and portion (top, Middle, Bottom) of that tree. The oil palm is selected to know whether this species is for various uses. The physical properties test is to determine the density and moisture content that was conducted in accordance to TAPPI standard T 258 OM- 94 (1996). The mechanical properties test is apply bending and compression tests. The test was conducted in accordance to the standard testing method, i.e. British Standard (BS 373: 1957 Testing Small Clear Specimen of Timber). From the testing, Modulus of Elasticity (MOE), the Modulus of Rupture (MOR), Density and Compression of oil palm lumber are discovered.