

**ERGONOMIC CHAIR DESIGN FOR MUSCULOSKELETAL DISORDER
(MSD)**

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

JANUARY 2013

ACKNOWLEDGEMENT

It gives me great pleasure in expressing my gratitude to all those people who have supported me and had their contributions in making this thesis possible. First and foremost, I would like to express my gratefulness to Allah The Almighty, for His blessing and bestow precious time upon completion of this dissertation. I could never have accomplished this without the faith I have in The Almighty. My deepest thanks go to my supervisor, Madam Norhafizah binti Rosman, for her constant guidance and brilliant comments. Great appreciations to the Head of teachers in Sekolah Kebangsaan Jengka Pusat 2, Tuan Hj. Ibrahim bin Hj. Daud, for the permission to do the study as well as Madam Murizan, for her helps upon collecting the data. I also owe a huge favor to the school children who gave a full commitment in helping me to collect their body measurement data. I really appreciate it. Not to forget, a special thanks to my entire classmate for lending me their precious time and energy throughout the process. Last but not least, I would like to remember and thank all the staff of Applied Sciences Faculty for their help in fulfilling the requirements of this study.

Fazlinarulzaiha.

TABLE OF CONTENTS

| | Page |
|---|-------------|
| APPROVAL SHEET | ii |
| ACKNOWLEDGEMENTS | iii |
| LIST OF TABLES | vi |
| LIST OF FIGURES | vii |
| LIST OF PLATES | viii |
| LISTS OF ABBREVIATION | ix |
| ABSTRACT | xi |
| ABSTRAK | xii |
| | |
| CHAPTER 1 INTRODUCTION | |
| 1.1 Background of study | 1 |
| 1.2 Problem Statement | 2 |
| 1.3 Justification | 3 |
| 1.4 Objectives | 3 |
| | |
| CHAPTER 2 LITERATURE REVIEW | |
| 2.1 Introduction | 4 |
| 2.2 Definition of term | 4 |
| 2.2.1 Ergonomic | 4 |
| 2.2.2 Anthropometric | 5 |
| 2.2.3 Musculoskeletal disorder (MSD) | 7 |
| 2.2.4 Chair design | 7 |
| 2.3 Anthropometrics data | 8 |
| 2.3.1 Anthropometric data analysis | 8 |
| 2.4 Ergonomic in the school | 8 |
| 2.4.1 Sitting posture | 8 |
| 2.4.2 Sitting habits among schoolchildren | 11 |
| 2.4.3 Ergonomic design of school chair | 11 |
| | |
| CHAPTER 3 METHODOLOGY | |
| 3.1 Introduction | 14 |
| 3.2 Conceptual framework | 14 |
| 3.3 Sample candidates | 14 |
| 3.4 Measured dimension | 16 |
| 3.4.1 Anthropometric measurement | 16 |
| 3.4.2 Chair dimensions | 18 |
| 3.5 Software, equipment and tools | 19 |

| | | |
|-----|--------------------|----|
| 3.6 | Data analysis | 22 |
| 3.7 | Design development | 22 |

CHAPTER 4 RESULT AND DISCUSSIONS

| | | |
|-----|--|----|
| 4.1 | Introduction | 23 |
| 4.2 | Anthropometric data | 23 |
| | 4.2.1 Comparison of anthropometric data between male and female students | 26 |
| | 4.2.2 Analysis of variance, ANOVA | 29 |
| 4.3 | Mean, standard deviation and percentile | 30 |
| | 4.3.1 Mean | 30 |
| | 4.3.2 Standard deviation, SD | 31 |
| | 4.3.3 Percentile | 32 |
| 4.4 | Design of the current primary school chair | 33 |
| | 4.4.1 Chair sample 1 and 2 | 34 |
| | 4.4.2 Chair sample 3 | 35 |
| 4.5 | Unequal measurement of the existing chair with student's anthropometric measurements | 37 |
| 4.6 | Proposed design of primary school classroom chair | 39 |
| 4.7 | Summary | 42 |

CHAPTER 5 CONCLUSION AND RECOMMENDATIONS

| | | |
|-----|-----------------|----|
| 5.1 | Conclusion | 43 |
| 5.2 | Recommendations | 44 |

| | |
|-------------------------|----|
| CITED REFERENCES | 45 |
|-------------------------|----|

| | |
|-------------------|----|
| APPENDICES | 48 |
|-------------------|----|

| | |
|--------------------------------|----|
| <i>CURRICULUM VITAE</i> | 64 |
|--------------------------------|----|

ABSTRACT

ERGONOMIC CHAIR DESIGN FOR MUSCULOSKELETAL DISORDER (MSD)

Out of all the issues relating to chair design for school children (e.g. School back and sitting posture), Musculoskeletal Disorder (MSD) has still been the main issue. It is imperative to know that the chair dimensions and anthropometric measurements should be tallied in order to produce an ergonomic chair design for school children. In regards to this matter, I came out with the objective to analyze the primary school students' anthropometric measurements and to design an ergonomic chair for the students in order to lessen the problem caused by Musculoskeletal disorder. The process of collecting and analyzing data are done by using basic tools and SPSS. As for the design, I am using Google Sketch-Up Pro. Based on the findings, it shows that girls have larger physical characteristic than boys. However, due to the fast and stable phase of child growth and development of seven to twelve years old, an adjustable chair was proposed.