

TABLE EXPANSION

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BORANG PENGESAHAN STATUS TESIS

JUDUL: **TABLE EXPANSION**

SESI PENGAJIAN: **2009/2010**

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TABLE EXPANSION

ANAS BASRI BIN MUSTHAFA

Report submitted in partial fulfilment of the requirements for the
award of the degree of Diploma in Mechanical Engineering

Faculty of Mechanical Engineering
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NOVEMBER 2009

SUPERVISOR'S DECLARATION

I hereby declare that I have checked this project report and in my opinion this project is satisfactory in terms of scope and quality for the award of Diploma in Mechanical Engineering.

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STUDENT'S DECLARATION

I hereby declare that the work in this report is my own except for quotations and summaries which have been duly acknowledged. The report has not been accepted for any degree and is not concurrently submitted for award of other degree.

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LIST OF ABBREVIATIONS

etc	Etcetera
SMAW	Shielded metal arc welding
MMA	Manual metal arc
GMAW	Gas metal arc welding
MIG	Metal inert gas
MAG	Metal active gas
PPE	Personal Protective Equipment

ABSTRACT

This report presents the additional table that serves as a table that has a larger surface area for table arm chair. Students often use tables arm chair, but table is usually in the design space with a limited surface. It is often used, especially in the classroom and lecture halls. In addition, the table arm chair is furniture that is used to facilitate reading and writing. This report will also be more focused on the formation of additional table expansion. Additional ways to use this table to clamp attached onto the table arm chair. Materials used to produce a table expansion are to use steel and wood. The purpose of this table expansion is designed to make the table arm chairs have enough space by using the installation. Ways and forms an attractive installation designed to make this easy to use a table expansion. Several aspects should be given full attention to ensure that this project can be carried out in line with the initial planning and be completed within the time supposed.

ABSTRAK

Laporan ini membentangkan tentang meja tambahan yang berfungsi sebagai meja yang mempunyai ruang permukaan yang lebih luas untuk meja lengan kerusi. Pelajar-pelajar sering menggunakan meja lengan kerusi, namun meja ini biasanya direka bentuk dengan ruang permukaan yang terhad. Ia sering kali digunakan terutamanya di dalam kelas dan dewan kuliah. Selain itu, meja lengan kerusi merupakan suatu perabot yang digunakan untuk memudahkan kerja pembacaan dan penulisan. Laporan ini lebih memfokuskan kepada pembentukan meja tambahan. Meja tambahan ini menggunakan cara mengapit untuk dipasangkan ke meja lengan kerusi. Bahan yang digunakan untuk menghasilkan meja tambahan ini ialah dengan menggunakan besi dan kayu. Tujuan meja tambahan ini direka adalah untuk menjadikan meja lengan kerusi mempunyai ruang yang mencukupi dengan menggunakan cara pemasangan. Cara-cara pemasangan dan bentuk yang menarik telah direka untuk menjadikan meja tambahan ini mudah digunakan. Beberapa aspek perlu diberi perhatian yang sepenuhnya bagi memastikan projek ini dapat dijalankan seiring dengan perancangan awal dan dapat disiapkan dalam masa yang sepatutnya.

CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

This chapter is explained about the project background, problem statement of the project, project objective, scope of the project, and the project flow that been conducted. Beside that, this chapter also cover the progress project which are follows the Flow chart and Gantt chart with duration of time.

1.2 PROJECT BACKGROUND

1.2.1 General Project Synopsis

The project involves designing and fabricating a Table. As the Diploma final year project allocates the duration of 1 semester, this large man-hour project therefore requires significant efforts of the students to participate.

A table is one of furniture in class. It is equipped by using 2 materials, first a wood for their board and second a stainless steel material for the clamp which include, rectangular plate steel, and L shape steel in manufacturing process by perform MIG welding to joint the parts. The advantages of the proposed table to be developed can be seen to be easier during writing, reading and etc.

The process of development is initiated from designing the shape of the table by considering the function as well. In order to produce user friendly product that is suitable to the consumer, consideration to the ergonomic factor is taken into account. It involves the measurement process before the materials are cut into pieces before joined together.

1.2.1 Specific Project Synopsis

My project title is Table Expansion. This project is to produce an expansion board as a table which it can attach on the table arm chair. The parts of table expansion are including board and clamp. This project is work as table to expand the table arm chair and it also can to fix and pull out on the table arm chair. Overall, the project will meet acquire skills of design, analysis, and fabrication.

1.3 PROBLEM STATEMENT

Mostly, current table arm chair has limited space. It cannot put the large book or anything has a large size on their table. This project is to design the expansion board to attach on the table arm chair.

1.4 OBJECTIVE

1.4.1 General Objective

Diploma final year project objective is to practice the knowledge and skill of the student that have been gathered before in solving problem using academic research, to born an engineer that have enough knowledge and skill. This project also important to train and increase the student capability to get know, research, data gathering, analysis making and then solve a problem by research or scientific research. The project will educate the student in communication like in a presentation and educate them to defend their research in the presentation.

The project will generate students that have capability to make a good research report. This project also can produce and train student to capable of doing work with minimal supervisory and more independent in searching, detailing and expanding the experiences and knowledge

1.4.2 Specific Objective Project

The objective of this project is to design and fabrication of table expansion.

1.5 SCOPES

The scopes for this project are:

- (i) Focused to fix the expansion board to attach onto table arm chair.
- (ii) Design the expansion board to fix the rectangular shape and have a flat side of the table arm chair.
- (iii) This project focused on making expansion table can ensure user will convenient and can to carry.

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