**KEMENTERIAN PENGAJIAN TINGGI**

**POLITEKNIK MALAYSIA**
**SULTAN SALAHUDDIN ABDUL AZIZ SHAH**

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# RESEARCH AND INNOVATION UNIT

# PROJECT TITLE: SMART DRESSING TABLE
# CIVIL ENGINEERING DEPARTMENT

| STUDENT NAME & MATRIX CARD: | 1. MOHAMAD FITRI AIDIL BIN DHALAN (08DBK18F1005) 2. MUHAMMAD ALIF NAJMI BIN MOHD PARIZA (08DBK18F1008) 3. ZAKWAN IRFAN BIN ZINI (08DBK18F1036) 4. NURUL AFIQAH BINTI CHE AZIZ (08DBK18F1078) |
|---|---|
| SUPERVISOR NAME: | 1. PUAN WAHIDA BINTI MOHAMAD NOOR |

# SMART DRESSING TABLE

## 1.0 INTRODUCTION

Furniture is objects of applied arts intended for mobile and permanent furnishing of residential interiors. Among other things, it serves for storage, work, eating, to sit, lying down, sleeping and relaxing. For the group of storage furniture represents cabinets, bookcases, shelves, dressers, chests of drawers, cabinets, containers, dressing tables and library bookcases. Dressing table is a table often fitted with drawers and a mirror in front of which one sits while dressing and grooming oneself (Merriam Webster Dictionary 1828).

## 2.0 PROBLEM STATEMENT

A dressing table is something that is probably seen as purely a female thing. That being said, a dressing table in a bedroom can be the perfect spot for a woman to keep necessary valuables, such as creams, aftershave, perfume, skin care and hair care products.

In market today, most dressing table design comes with a mirror and one drawer only. Unfortunately, drawers are often not as large as one would want them to be. The absence of proper storage could cause all the items scattered on the table, spilled or fell to floor by accidental. Furthermore, the design of mirror's positioning now has caused users to move closer to the mirror when to do their makeup. As shown in Figure 1.



**Figure 1: Makeup equipment that not well organize**

## 3.0 RESEARCH METHODOLOGY

On March 4, 2020, a study was conducted related to the existing dressing table in the market. Based on the survey, 80% of respondents have a dressing table in their respective homes and 73% of these respondents do not agree that the existing dressing table has a neat storage space. Meanwhile, 75% disagree that the product placement on the dressing table does not interfere with their visibility in the mirror while sitting.

So from the result of the survey, we redesigned dressing table that could meet the expectation of the consumers. Our project is a product-based named **Smart Dressing Table (SDT)** where the production is carried out at the Kerjakayu.my workshop at I-Parc 3 Industrial Park, No 7, Jalan Riyal U3/38, Bukit Jelutong, 40150 Shah Alam, Selangor.
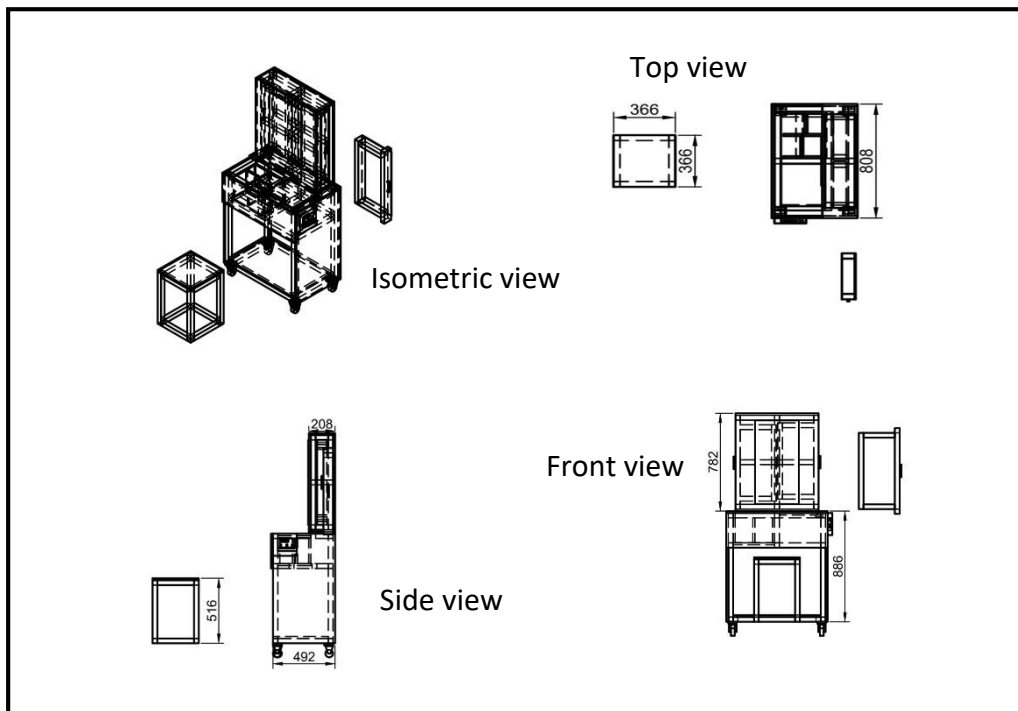

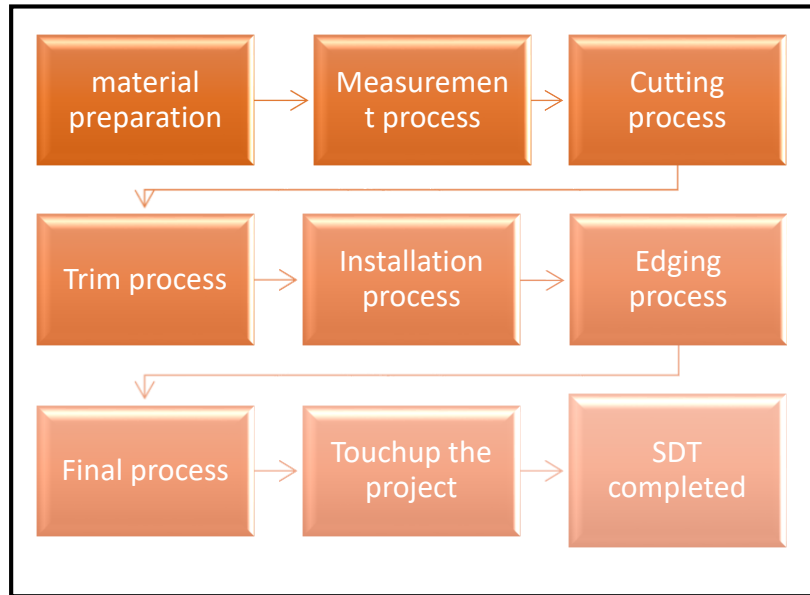
**Figure 2: AUTOCAD Sketch of Smart Dressing Table (SDT)**

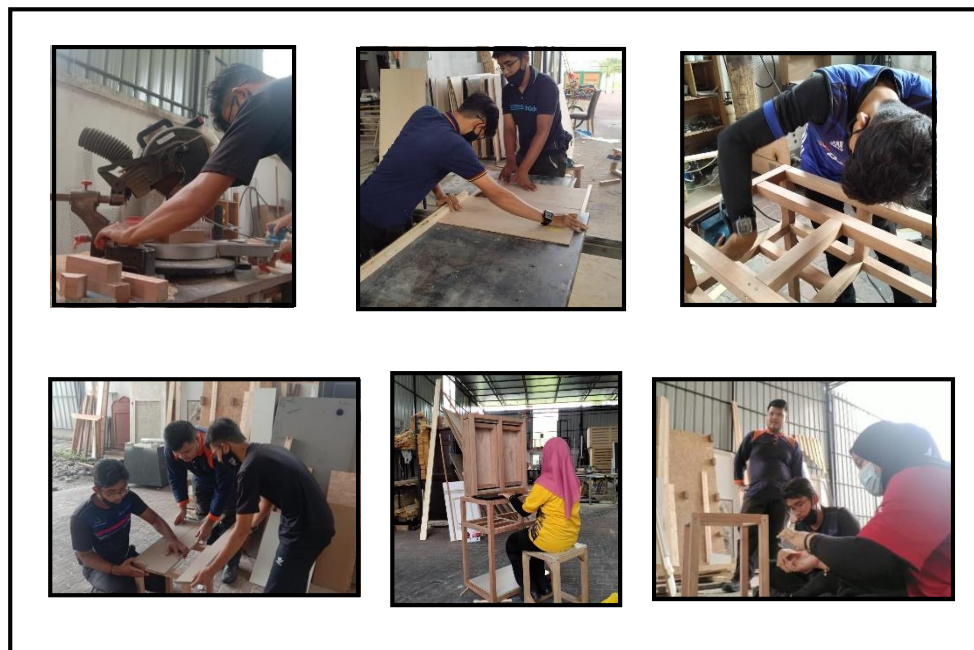**Figure 3: Flow Chart of Smart Dressing Table (SDT) Process Making**



**Figure 4: Smart Dressing Table (SDT) Making Process**

# 4.0 PROPOSED SOLUTION

First of all, this Smart Dressing Table (SDT) is designed to have a compartment for placing cosmetic or skincare products vertically without having to draw a drawer and does not obstruct the view of the user on the mirror. Additional storage space for accessories and other items is designed to be hidden inside the mirror and users only need to pull the handle on the left and right side of the mirror.

Then this dressing table has two wheels that can rotate up to 360 degrees and the other two wheels move in parallel. In addition, the USB socket holder is also added to facilitate the use of electrical items related like hair dryers, shavers and at the same time for charging mobile phones and so on. Finally, SDT comes with a chair and if not in use can be stored in the space provided.



**Figure 5: Proposed solution in SDT**

## 5.0 BENEFIT OF THE PRODUCT

This smart dressing table has factors that be a solution to user for the problems that users facing every day. Firstly, here with multi compartment designed by placing cosmetic or skincare products vertically, the products can be stored and accessed with ease while in use. Next, the compartments for storing accessories, jewelries and other items were designed to be hidden inside the mirror which goes in and out from the right and left sides.

Besides that, the mirror's positioning allows the user to do their make up without having to lean in towards the mirror. This is in line with the concept of ergonomic furniture which means furniture that has been designed to support function and comfort for human use.

Meanwhile, the addition of this USB socket helps the user to use electrical or electronic hardware at the same time such as the use of a hairdryer, shaver and in addition to charging the phone. SDT also, comes with a chair and if not in use it can be stored in the space provided. Finally, the specialty of SDT are, it designed with wheels, which definitely makes it easy for users to arrange the position of SDT in any desired space. Only one person is needed to do this job compared to the existing dressing table.
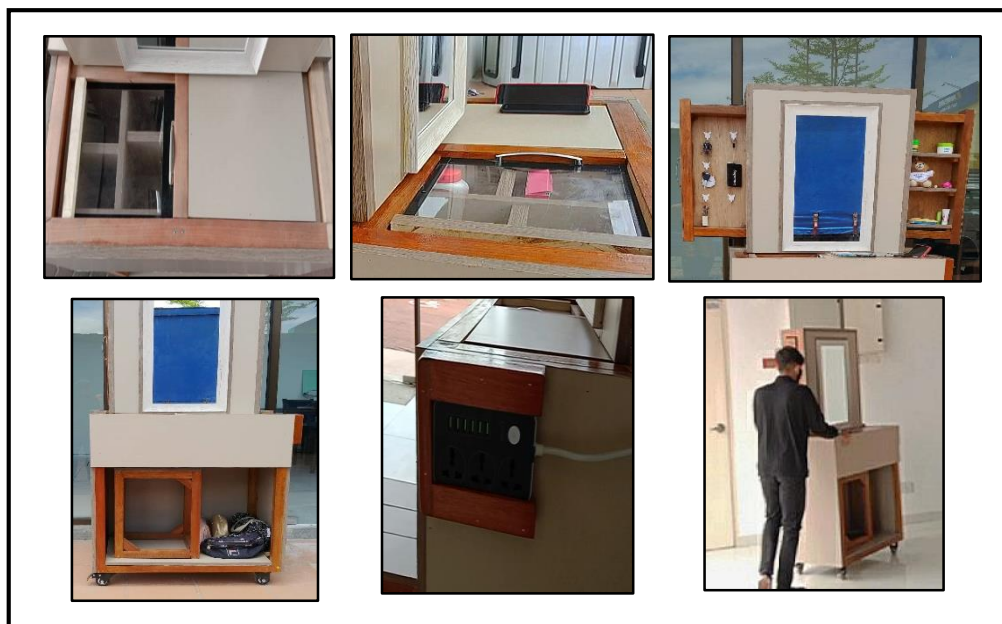


**Figure 6: Benefit of SDT**

## 6.0. METHOD OF USE

| COMMON DRESSING TABLE | SMART DRESSING TABLE (SDT) |
|---|---|
| Unorganized items | Products placed vertically looks more organized and have multi compartment storage |
| User need to lean in towards the mirror. | The mirror positioning allows the user to do her make up without having to lean in towards the mirror. |
| Static and need at least two man power to be mobilized | With wheels, SDT easy to move |

*Source of common dressing table pictures: Images from Google.com*

**Figure 7: Using SDT**

**7. 0 CONCLUSION**

The idea of SDT started with exploring small living spaces towards how one deals with storage for those who are living in city and town apartments. With some innovative ideas that been added, born our Smart Dressing Table.  The aim for this project is to be a solution to for the problems that common dressing table in market.

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**Figure 8: Smart Dressing Table**

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