CHAPTER 1

INTRODUCTION

1.1 Project Synopsis

This chapter explained about the project objectives, project background, project scope, and the problem statement of the project. Besides that, this chapter also covers the project flow of this project.

1.2 Project Background

In industry, many company or organization had implemented 5’S as their working style. 5’s can be implemented anytime and anywhere especially at our working desk. Sometimes it is difficult to implement 5’S at our table or desk because we had not enough space to manage them. Therefore, we need to develop a design of a multipurpose container to overcome this problem.

This final year project allocates the duration of one semester to be finished. The fabrication of the multipurpose container inquires me to have skills in handling several machines such as welding machines, bending machine, cutting machines, drilling machines, riveting, grinding machines and many more to make the product.
1.3 **Project Scope**

The scope of the project is limited to the below parameter and material:

(i) **Material**
- Galvanized Iron (Sheet Metal 1.5mm thickness)
- Aluminum (Sheet Metal 2.5mm thickness)
- Steel (L Shape 30x30mm with 3mm thickness)

(ii) **Sketching and Drawing**
- SolidWorks software
- AutoCAD software

(iii) **Fabrication**
- Vertical Saw
- MIG
- SMAW

1.4 **Project Objective**

(i) To design a new concept of multipurpose container which will ensure the item that already store is being kept securely.

(ii) To produce a multipurpose container with cap or lid that can be open without using hand.

(iii) To design and invent a multipurpose container with more space for other item to be place.

1.5 **Project Problem Statement**

(i) Current Container is not easy to use because it will be open by hand

(ii) Current Container have low space or load

(iii) The Container must be stable to stand at high load
For this chapter, we can conclude this chapter can clear about the objective and do the project easily. In this day, we have many multipurpose container so this project is to design and fabricate the new multipurpose container. In conducting a project like this project, well arrangement of works is really important to keep the momentum of this study.