

**UNIVERSITI TEKNOLOGI MARA**

**DESIGN AND FABRICATION OF  
SHOE RACK WITH DRYER  
FUNCTION**

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of the requirements for the degree of  
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## **ABSTRACT**

The project is touching on the aspect of thermodynamics. The heat will be used in drying the shoe. Nowadays, most people have trouble drying their shoes on rainy days thus making a shoe dryer important for daily life usage. The shoe rack with dryer function will help the people that need to dry their shoes as soon as possible thus solving the problem of drying shoes on rainy days. This product fabricating process uses welding technique as it was needed to connect the frame together. The screw will also be used to attach the frame with the aluminium composite panel as the rack need to be covered. Finally, the product shoe rack with dryer function will be produced that will help the people and without disturbing the environment.

## **ACKNOWLEDGEMENT**

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Finally, this dissertation is dedicated to my father and mother for the vision and determination to educate me. This piece of victory is dedicated to both of you. Alhamdulillah.

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# CHAPTER ONE

## INTRODUCTION

### 1.1 Background of Study

There have been many shoes dryer on the market today but there still no available option to store and dry the shoe at the same time. The purpose of this study is to design and fabricate a shoe rack with dryer function. This product can save some work and time for the people they do not to do anything to dry the shoe. It saves time as it can shorten the time taken to dry the shoes.

Today, there have been so much advance and new technology on the market. This product can be fabricated easily with the available technology. This shoe rack with dryer function is also not hard to make and not costly as it just uses simple technology to control the heater and it does not use expensive material to make.

### 1.2 Problem Statement

Have problem to dry the wet shoes on rainy days  
12 responses

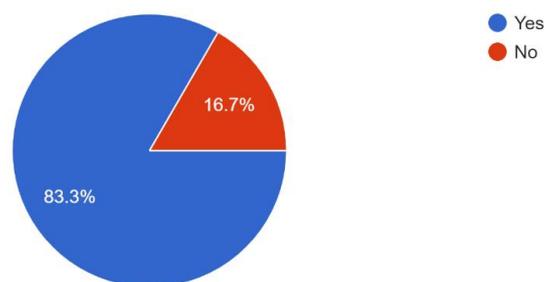


Figure 1.2.1: Wet Shoes Problem Responses

Figure 1.2.1 shows 83.3% of people have a problem to dry their shoes on rainy days. It can make a hard time for them as sometimes they need to use the shoes as soon as possible.