

**UNIVERSITI TEKNOLOGI MARA**

**DESIGN, ANALYSIS AND  
FABRICATION OF SHOES  
DRYER**

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## **ABSTRACT**

A shoes is an item of footwear intended to protect and comfort the human foot. It is very comfortable to wear dry shoes. This project is design to keep our shoes dry and eco-friendly. This project can be used anytime if our shoe wet because of rain and after wash. This project is about to save our time because when we use heat from sun, maybe we must take a long time period to dry shoes but with using this project, we can shorten the time to dry shoes. To solve this problem, 'SHOES DRYER' is created which is consist of several components. The function will be start from fan that will carry the wind directly into the box. After that, the wind spread the heat generated from the soldering tool to the entire space of the box containing the shoes. Beside, we can check heat at the box with heat detectors to make sure heat in the box not to high that can make your shoes burn. Then, heat from the box will flow out from the other fan that carried air with heat. Static heat will make shoes dry faster than using heat from the sun. Advantage of this project is to keep the shoes dry, saving time and can use anytime.

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# **CHAPTER ONE**

## **INTRODUCTION**

### **1.0 INTRODUCTION**

A shoes is an item of footwear intended to protect and comfort the human foot. Shoes can define as a covering for the foot, typically made of leather, having a sturdy sole and not reaching above the ankle. Shoes is one of the importance thing that show our self-appearance. Over the past few month, the weather changes often maybe because change in monsoon wind cause weather always rain and humid. That's weather make our shoes wet and uncomfortable when we wearing the shoes. Although, the wet shoes can emit the foul and uncomfortable odor when other smell it.

This project is designed to solve the wet shoes and saves time. This project can dry shoes consistently with a predetermined temperature. With this project, we don't have to wait the sun to get a dry shoes and does not take much time for shoes dry. This shoes dryer is simple. It is because we just plug it on the switch prepared and store the shoe inside the space until the shoes dry again. The apparatus with the use of heat from soldering pen and fan that can make a flow in and out of an air. This simple shoes dryer is suitable for removing the wetness and odor from the shoes.

### **1.1 BACKGROUND OF THE PROJECT**

This project very easy to use because we have to just have to plug it to the electric socket and switch it on. This project is safe to use because it doesn't use much manpower and did not required lot of electricity. This project using a heat from the kettle heating element that means the heat will dry any shoes in a short time compared to dry under the sun. As we know, the weather in Malaysia always rainy that lead to the problem for us to dry our shoes especially in the monsoon season. With this project, at least a pair of our shoes can be dried for use in the next day. This shoes dryer also can make our shoes more comfortable every day and don't waste more money to buy a new shoes. Finally, this project is not too large that can only dry a pair of shoes in one time.