

UNIVERSITI TEKNOLOGI MARA

**DESIGN AND FABRICATION OF EXHAUST FAN
CLEANER**

WAN AMIR FAISAL BIN WAN ADZMANI

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ABSTRACT

Exhaust fans are used to pull excess moisture and unwanted odours out of a particular room or area. They are commonly found in bathrooms and kitchens, where moisture can build up due to activities such as showering, washing, or cooking. The objective of this project is to build an exhaust fan with its own cleaning mechanism. Cleaning exhaust fan had always been a common thing as it will increase its efficiency when cleaned. The problem arise when the cleaning process occur and a lot of things had to be stop in order for the exhaust fan to be clean. Cleaning the exhaust fan also consume a lot of energy as the process for cleaning it have a lot of steps. The expectation from this project is to lessen the burden of workers with an exhaust fan that can clean itself and the cleaning process of the exhaust fan will not interfere with the workers works.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Exhaust fan are very popular among the citizen not just locally but globally to remove stale, muggy or dirty air. Exhaust fan is very important in making sure the room air is clean. In order for the exhaust fan to work with the most efficiency it will need to be clean once in a while

The main objective of the research is to design and fabricate an exhaust fan with an automatic cleaning system that can be used for at the industry and for other place that will be to busy to clean the exhaust fan manually

1.2 Problem Statement

An exhaust fan is a fan which is used to control the interior environment by venting out unwanted odours, particulates, smoke, moisture, and other contaminants which may be present in the air.

There are many ways that can be used to maintain the exhaust fan efficiency. For example, wiping the blade with cloth to remove remaining dust from the blade, lubricating the fan bearings so that it won't get rusty. The old ways of cleaning the exhaust fan is not safe as the chemical detergent which may be dangerous to the people at the surroundings.

The disadvantage of the old ways of maintaining the exhaust fan is that it requires a lot of energy and it also take a lot of time. So, the solution of this problem is by building an exhaust fan with its own cleaning mechanism.