

UNIVERSITI TEKNOLOGI MARA

**DESIGN AND FABRICATION OF
NUTMEG PEEL OFF**

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Dissertation submitted in partial fulfillment of
the requirements for the diploma of
**Diploma (Mechanical
Engineering)**

College of Engineering

Feb 2023

ABSTRACT

Injuries in the kitchen are unavoidable when a person cooks. A nutmeg scraper is a tool for scraping nutmeg into finer powder. People frequently injure themselves while cooking because they are sliced by nutmeg scrapers. As a result, this should be invented to make people's jobs easier during the cooking process. This machine should also be safe and easy to use for children. In the meantime, the number of nutmeg scraper injuries in the kitchen can be reduced. Distributing surveys and browsing the web are two methods for gathering information and data. Finally, the design of my scaled-down manual-handled nutmeg peel off device is practical. My device is intended for use in the home kitchen. The objectives of this project are designing and fabricate the designed to make a nutmeg grater. Thus to make nutmeg grinder with simple to use hand crank. The methodologies of this project will be explained in Chapter 3. Lastly, the expected outcome of this project is it can end smoothly and the item will efficiently function to grating fruits and soft vegetables.

ACKNOWLEDGEMENT

Firstly, I wish to thank Allah for giving me the opportunity to embark on my diploma and for completing this long and challenging journey successfully. My gratitude and thanks go to my supervisor, Ir. Ts. Dr. Ab. Aziz Bin Mohd Yusof.

Finally, this dissertation is dedicated to my 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

Nutmeg is the seed of an evergreen plant that grows in Asia, Australasia and the Caribbean. A whole nutmeg in its shell can last up to 9 years, while grated nutmeg may have a shelf life of a year or less. Grating fresh nutmeg off the seed will impart a stronger, fresher smell and flavor to your recipes.

Several types of graters feature different sizes of grating slots, and can therefore aid in the preparation of a variety of foods. They are commonly used to grate nutmeg, cheese and lemon or orange peel (to create zest), and can also be used to grate other soft foods. They are commonly used in the preparation of toasted cheese, Welsh rarebit, egg salad, and dishes which contain cheese sauce such as macaroni and cheese, cauliflower cheese.

Graters produce shreds that are thinner at the ends than the middle. This allows the grated material to melt or cook in a different manner than the shreds of mostly uniform thickness produced by the grating blade of a food processor. Hand-grated nutmeg, for example, melt together more easily in cooking.

1.2 Problem Statement

Grater are not very safe as they can cause accidents while grate. When cooking, people often hurt themselves as they were cut by grater. Thus, grater can only scrat one nutmeg at a time. So, it's a waste of time. Therefore, to avoid the same act happened numerous times in future, a nutmeg peel off simple machine should be invented to ease people work. This machine also should be suitable to use for children. This way, the number of grater injuries can be decreased.

1.3 Objectives

The main objectives of this project are:

- a) To design a manual nutmeg grater.