

**CORN PRODUCTION USING RUNGE-KUTTA AND LEAST
SQUARE METHOD**

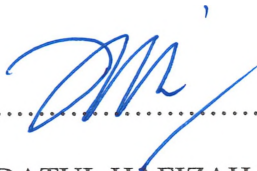
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**Thesis Submitted in Fulfillment of the Requirement for
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DECLARATION BY CANDIDATE

I certify that this report and the project to which it refers is the product of my own work and that idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.



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ABSTRACT

The monthly production of the corn in Malaysia within a year is inconsistent. The Agriculture Industry including the farmers are facing problem to estimate the production of corn. This will affect to the Industry and farmers especially to their income, food supply for Food Industry and also satisfy or reach the demand. Malaysia nowadays needs to import the corn from other country. The cost is higher than Malaysia producing own corn. Therefore, a solution is needed to overcome this problem. If the industry is able to increase the production, then it will help the farmer to increase their monthly income. Moreover, it will help to improve country's finance. The Objective of this research is to predict the next production of corn using the Runge-Kutta method and Least Square Method. In order to gain the accuracy of the purposed method, result from the actual production is compared to the numerical solution. Therefore, researcher can choose the most appropriate method to predict corn production for the next upcoming years. The best method to predict the corn production is using Runge-Kutta Method.

TABLE OF CONTENT

DECLARATION BY THE SUPERVISOR	i
DECLARATION BY CANDIDATE	ii
ABSTRACT	iii
ACKNOWLEDGEMENT	iv
LIST OF FIGURE	ix
LIST OF TABLE	x
CHAPTER 1: INTRODUCTION OF RESEARCH	
1.1 Introduction	1
1.2 Background of study	1
1.3 Problem Statement	4
1.4 Objectives	5
1.5 Significant of Project	6
1.6 Scope of Project	7
1.7 Project Benefits	8
1.8 Definition of Terms and Concept	9
1.9 Organization of Report	10

CHAPTER 2: METHODOLOGY

2.1	Introduction	12
2.2	Literature Review	12
2.2.1.	Runge-Kutta method	12
2.2.2.	Least square method	15
2.2.3.	Corn grain drying method	17
2.3	Preliminary Theory of Runge Kutta Method and Least Square	20
2.3.1.	Runge-Kutta method	20
2.3.2.	Least square method	22
2.4	Methodology and research steps	24
2.5	Conclusion	31

CHAPTER 3: IMPLEMENTATION

3.1	Introduction	32
3.2	Research of actual data	32
3.2.1.	Implementation of Mathematical Formulation of Corn Grain Drying	34
3.3.	Implementation of Numerical Solution	37
3.3.1.	Implementation of Runge-Kutta Method	37
3.3.2.	Implementation of Least Square Method	48