

**UNIVERSITY TECHNOLOGY MARA**  
**FACULTY OF MECHANICAL ENGINEERING**  
**SHAH ALAM SELANGOR**

**FINAL YEAR PROJECT REPORT**  
**DESIGN, MANUFACTURE AND TESTING**  
**AN AIRCRAFT MODEL**

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# TABLE OF CONTENTS

<b>Contents</b>		<b>Page</b>	
<b>Acknowledgement</b>			
<b>Chapter</b>	<b>1</b>	<b>Introduction</b>	
	1.1	Research Need	1
	1.2	Objective	1
<b>Chapter</b>	<b>2</b>	<b>Preliminary &amp; conceptual design</b>	
	2.1	General Concept	2
	2.2	Preliminary & Conceptual Design	2
<b>Chapter</b>	<b>3</b>	<b>Detailed design</b>	
	3.1	Aerodynamics	6
	3.2	Body Parts Design	7
<b>Chapter</b>	<b>4</b>	<b>Manufacturing</b>	
	4.1	Item Needed	9
	4.2	For Servo Mounting	9
	4.3	Necessary Tools and Supplies	9
	4.4	Wood Parts	10
	4.5	Horizontal & Vertical Stabilizer Construction	10
	4.5.1	Items Needed	10
	4.5.2	Steps	11
	4.6	Wing Constuction	12
	4.6.1	Steps	12
	4.7	Fuselage Construction	15
	4.7.1	Items Needed	15
	4.7.2	Steps	15
	4.8	Radio Installation	19
	4.8.1	Preparation	19
	4.8.2	Radio Pre Check	19
	4.8.3	Radio Protection	19
	4.9	Cóvering	22

## TABLE OF CONTENTS

<b>Contents</b>			<b>Page</b>
<b>Chapter</b>	<b>5</b>	<b>Testing</b>	
	5.1	Flight Testing	25
<b>Chapter</b>	<b>6</b>	<b>Result and Discussion</b>	
	6.1	Discussion & Conclusion	27
	6.2	The Cost of Project	28
	6.3	Maintenance of The Project	28
<b>Appendix.</b>			29
<b>References</b>			

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## Chapter 1

## INTRODUCTION

Research Introduction1.1 Research Need

Remote control aircraft provides a simple means of sheer excitement of flying. It is relatively cheap and in moderate size compared to the real aircraft. We choose this project of designing, manufacturing, and testing a remote control aircraft because it is relevant to our course of an Aerospace study. It allows us to apply what we have learned in subjects like Aerodynamic, Aircraft Structure, Strength of Materials, Engineering Design, Lecture in Aerospace and Propulsion.

1.2 Objective.

The main objective of this project is to learn how to manage a project starting from the generation of ideas until the materialization of them. The second objective is to design a remote control aircraft model using design drawings. The third objective is to fabricate and construct a remote control aircraft with basic R/C construction techniques and the last objective is to test fly a remote control aircraft so as to determine its flight properties and performance characteristic.