**THE USE OF DIFFERENTIAL EQUATIONS TO MODEL AND DESCRIBE THE MOTION OF A SPRING**

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**IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF BACHELOR OF SCIENCE DEGREE IN MATHEMATICS.**

## DECLARATION

I hereby declare that this research was written by me and is a correct record of my own research. It has not been presented in any previous application for any degree of this or any other University. All citations and sources of information are clearly acknowledged by means of references.

#### OLALERE BABATUNDE

#### Date:. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

## CERTIFICATION

This is to certify that this research work entitled **The Use of Differential Equation to Model and Describe the Motion of a Spring** is the outcome of the research work carried out by **OLALERE BABATUNDE** (20183060) in the Department of Mathematics, Federal University of Agriculture, Abeokuta, Ogun State.

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(**SUPERVISOR**)

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#### DR. E.O. ADELEKE Date

( **HEAD OF DEPARTMENT**)

## DEDICATION

This project work is dedicated to Almighty God, the creator of the universe and all mankind, who gave me this grace from the inception of this project work till its completion. And also to my wonderful family, starting from my beloved parents, Mr and Mrs OLALERE as well as my ever-supportive siblings and to everyone that has been supportive and helpful in my education life.

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All glory, honour and adoration is to the Almighty God who has made the success of the research work and the completion of my BSc. programme at large a reality.

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## ABSTRACT

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# INTRODUCTION

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