UNIVERSITI TEKNOLOGI MARA

TECHNICAL REPORT

MATHEMATICAL MODELLING BY USING LINEAR EQUATION FOR CALCULATING THE COST OF RAISING AN AUTISM SPECTRUM DISORDER (ASD) CHILD

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IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

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TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

ABSTRACT

Autism Spectrum Disorder (ASD) is a disease that stands for a lifelong time and affects one person's ability to interact with the community. The way they perceive and socializes with others and the problems occurs when they interact and communicate with the community are related to the brain development. The cost in raising a child with disabilities are higher than raising a normal child. On top of that, an autism child also needs special care. Most of parents with an autism child did not know how to manage their financial monthly on their autism child since the cost of raising an autism spectrum disorder child very costly such as the cost of intervention, education, diet food and other expenses. So, the purpose of this project is to identify the variables required to model the formula of raising a child with an autism spectrum disorder. The data of this research will be collected by an interview and a questionnaire. MATLAB (matrix laboratory) has been used as a tool in order to develop the system for calculating cost for raising an autism child with linear equation method as a references since MATLAB is a multi-paradigm numerical computing environment and proprietary programming language.