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**THE KENYA POLYTECHNIC UNIVERSITY COLLEGE**  
**SCHOOL OF ENGINEERING, SCIENCE AND TECHNOLOGY**  
**ELECTRICAL AND ELECTRONIC ENGINEERING DEPARTMENT**

**TRADE PROJECT**

**PRESENTER:** CRISPIN FUNDI NYAGA

**INDEX NUMBER:** 107/00272

**PROJECT TITLE:** ENHANCED 5 DIGIT ALARM DOOR CONTROL

**OPTION:** POWER OPTION

**COURSE CODE:** Et 303107

**SUPERVISOR:** MR. BARASA MWANZA

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## PREFACE

Human beings have a tendency to follow short cuts rather than the laid down procedures. In the current world and with the great changes in technology, every person is rushing towards the changes as this makes day to day life easier. The hustle of carrying a bunch of keys around, loosing some and or having a third party duplicate some for their personal interest is slowly becoming a thing of the past.

Card door alarm systems have been seen to be taking over the normal door locks systems. This has been giving the concerned parties some relieve from carrying too many keys or being answerable for thing that they know not. This system has had some shortfalls in the recent past as these electronic cards an be stolen or the information carried by the card being duplicated by some computer freaks if the card is carelessly handled.

This alarm system is therefore designed to minimize these shortcomings of these electronic card alarm systems. It includes a keypad controlled alarm system that can be incorporated in restricted areas on the doors or safes. All the authorized person needs to do is to just memorize the code. This saves the problem of misplacing the keys or the electronic card or any other person from stealing them. This makes his system more secure than the rest.