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**THE KENYA POLYTECHNIC UNIVERSITY
COLLEGE**

DEPARTMENT: ELECTRICAL AND ELECTRONIC ENGINEERING

PRESENTER: CATHERINE NYAMBURA

INDEX NUMBER: 401001366

PROJECT TITLE: HEART RATE MONITOR

COURSE OPTION: TELECOMMUNICATION ENGINEERING

COURSE CODE: 2082/207

SUPERVISOR: MR. KARANJA

EXAM SERIES: NOVEMBER

**THIS PROJECT IS PRESENTED TO THE KENYA NATIONAL
COUNCIL AS A PARTIAL FULLFIMENT FOR THE
HIGHER NATIONAL DIPLOMA IN ELECTRICAL AND
ENGINEERING—TELECOMMUNICATION OPTION**

PREFACE

As a requirement for awarding of a Higher Diploma, it is a requirement to come up with a project. Being interested in Tele-medical, I thought of amplifying the signal produced by the heart. The system works on the basis of variation of the volume of blood in the extremity organs of the body which varies the amount of light emitted by infra red radiation from the sensors and that which is received by the photo transistor. This booklet has been written several reference materials from which different information were retrieved.

I hope this book will be of much help to the reader and the people out in the industries using this system.