TABLE OF CONTENTS

List of Tables  xiv
List of Illustrations xviii

Chapter
I  Introduction  1
  Statement of the Problem
  Delimitations
  Limitations
  Hypothesis
  Definitions and Explanation of the Terms
  Significance of the Study

II  Review of Related Literature  29

III  Procedure  94
  Selection of subjects
  Selection of variables
  Criterion Measures
  Reliability of Data
  Pilot study
  Procedure for Administering Tests
  Administration of Graded Exercise
  Experimental Design
  Administration of the Training Programme

IV  Analysis of Data and Results of the Study  146
  Analysis of Data
  Level of Significance
  Results of Heart Rate
  Results of Systolic Blood Pressure
  Results of Diastolic Blood Pressure
  Results of Haemoglobin Concentration
  Results of Cardio-Pulmonary Index
  Results of Tidal Volume
  Results of Respiratory Rate
  Results of Minute Ventilation
  Results of Maximum Oxygen Consumption
# TABLE OF CONTENTS (Contd.)

## V SUMMARY, CONCLUSION AND RECOMMENDATIONS

| Summary   | 232 |
| Conclusion |     |
| Recommendations | |

## APPENDICES

| A Table for Prediction of Maximal Oxygen Consumption from Heart Rate at 150 Watts on a Bicycle Ergometer | 242 |
| B Name, Age, Weight and Height of the Subjects | 243 |
| C Heart Rate Scores | 244 |
| D Systolic Blood Pressure Scores | 247 |
| E Diastolic Blood Pressure Scores | 250 |
| F Haemoglobin Concentration Scores | 253 |
| G Cardio-Pulmonary Index Scores | 256 |
| H Tidal Volume Scores | 259 |
| I Respiratory Rate Scores | 262 |
| J Minute Ventilation Scores | 265 |
| K Maximal Oxygen Consumption Scores | 268 |

## BIBLIOGRAPHY

| 272 |