

TABLE OF CONTENTS

	Page No
Certificate by the Supervisor	ii
Declaration by the Scholar	iii
Dedication	iv
Acknowledgement	v
Table of Contents	vi
List of Tables	xi
List of Figure	xiii
List of Appendices	xiv
CHAPTER I	1-36
INTRODUCTION	
1.1	2
1.2	4
1.3	6
1.3.1	7
1.3.2	7
1.3.3	8
1.3.4	9
1.3.5	9
1.3.6	10
1.4	11
1.5	14
1.5.1	14
1.5.2	14
1.5.3	15
1.5.4	16
1.6	18
1.6	20
1.6.1	20
1.6.2	21
1.6.3	22
1.6.4	23
1.6.5	24
1.7	24
1.7.1	25
1.7.2	26
1.8	26

TABLE CONTENTS (Continued)

1.8.1	Dribbling	26
1.8.2	Shooting	27
1.8.3	Passing	28
1.8.4	Playing Performance	29
1.9	Objectives of the study	29
1.10	Reason for Selection of the Topic	30
1.11	Statement of the Problem	31
1.12	Hypothesis	31
1.13	Significance of the Study	31
1.14	Delimitations	32
1.15	Limitations	33
1.16	Definitions and Meaning of the Terms	33
1.16.1	Football	33
1.16.2	Circuit Training	33
1.16.3	Resistance Training	33
1.16.4	Physical Fitness	34
1.16.5	Speed	34
1.16.6	Strength	34
1.16.7	Agility	34
1.16.8	Flexibility	34
1.16.9	Endurance	34
1.16.10	Physiology	35
1.16.11	VO ₂ Max	35
1.16.12	Resting Heart Rate	35
1.16.13	Performance Variables	35
1.16.14	Dribbling	35
1.16.15	Shooting	36
1.16.17	Passing	36
1.16.18	Playing Performance	36
CHAPTER II	REVIEW OF RELATED LITARATURE	37-79
2.1	Studies on Circuit and Resistance Training on Physical Variables	37
2.2	Studies on Circuit and Resistance Training on Physiological Variables	50
2.3	Studies on Circuit and Resistance Training on Performance Variables	55
2.4	Summary of the Literature	79

TABLE CONTENTS (Continued)

CHAPTER III	METHODOLOGY	80-108
3.1	Selection of Subjects	80
3.2	Selection of Variables	81
3.2.1	Dependent Variables	81
3.2.2	Independent Variables	81
3.3	Justification of the Variable Selection	82
3.4	Justification of Criterion Variable Selection	82
3.5	Selection of Tests	83
3.5.1	Reliability of the Tests	83
3.5.2	Subjects Reliability	84
3.5.3	Tester's Competency	84
3.5.4	Tester's Reliability	84
3.6	Orientation of the Subjects	85
3.7	Instrument Reliability	85
3.8	Reliability of Data	85
3.9	Pilot Study	86
3.10	Experimental Design	86
3.10.1	Experimental Group-I (Circuit Training)	87
3.10.2	Training program – Experimental Group – I	88
3.10.3	Training Schedule	88
3.10.4	Explanation of the Stations	89
3.10.4.1	Rope Skipping	89
3.10.4.2	Jump and Reach	89
3.10.4.3	Push-ups	89
3.10.4.4	Jump Squat	89
3.10.4.5	Running on the Spot	89
3.10.4.6	Lateral Raises	90
3.10.4.7	Bent Knee Sit-Ups	90
3.10.4.8	Hopping	90
3.10.4.9	Tuck Jump	90
3.11	Experimental Group – II (Resistance Training)	90
3.11.1	Procedure of Training	92
3.11.2	Experimental Group – III- Combined Training	94
3.12	Test Administration	94
3.12.1	Physical Variables	94
3.12.2	Physiological Variables	98
3.12.3	Performance Variables	99
3.13	Statistical Technique	108

TABLE CONTENTS (Continued)

CHAPTER IV	RESULTS AND DISCUSSIONS	112 – 170
4.1	Over view	112
4.2	Test of Significance	113
4.3	Level of Significance	113
4.4	Computation of Analysis of Covariance of Post Hoc Test	113
4.5	Results on Speed	113
4.5.1	Discussion on Findings of Speed	118
4.6	Results on Endurance	119
4.6.1	Discussions on Findings of Endurance	123
4.7	Results on Agility	124
4.7.1	Discussions on Findings of Agility	128
4.8	Results on Strength	129
4.8.1	Discussions on Findings of Strength	133
4.9	Results on Flexibility	134
4.9.1	Discussions on Findings of Flexibility	138
4.10	Results on VO2 Max	139
4.10.1	Discussions on Findings of VO2 Max	143
4.11	Results on Resting Heart Rate	144
4.11.1	Discussions on Findings of Resting Heart Rate	148
4.12	Results on Dribbling	149
4.12.1	Discussions on Findings of Dribbling	153
4.13	Results on Shooting	154
4.13.1	Discussions on Findings of Shooting	158
4.14	Results on Passing	159
4.14.1	Discussions on Findings of Passing	163
4.15	Results on Playing Performance	164
4.15.1	Discussions on Findings of Playing Performance	168
4.16	Discussions on Hypothesis	169
CHAPTER V	SUMMARY, CONCLISIONS AND RECOMMENDATIONS	171 – 177
5.1	Summary	171
5.2	Conclusions	172
5.3	Recommendations for the Future Practitioners	175
5.4	Recommendations for the Government	176
5.5	Suggestions for Future Research	177

TABLE CONTENTS (Continued)

BIBLIOGRAPHY	178-206
Books	178
Journals	179
Websites	184
Appendices	185
Reprints	196