## CONTENTS

CHAPTER	DETAILS	PAGE
		NO.
1.0	INTRODUCTION	1-9
1.1	YOGA AND FOOTBALL	9-9
1.2	SKILL	9-10
1.3	MEASUREMENT OF SKILL	10-10
1.4	ROLE OF YOGA IN SPORTS	11-11
1.5	INTERVENTIONS ON FOOTBALL PLAYERS	11-11
1.6	YOGA, PHYSICAL FITNESS TRAINING AS A SOLUTION	11-12
1.7	NEED, IMPORTANCE AND SCOPE OF THE STUDY	12-13
2.0	LITERARY RESEARCH	14
2.1	REVIEWS ON PREVIOUS STUDIES	14-15
2.2	AIM	15-15
2.3	OBJECTIVES	15-15
2.4	METHODOLOGY OF THE STUDY	15-16
2.5	LITERARY RESEARCH OUTCOMES	16
2.5.1	DEFINITIONS	16-16
2.5.2	ROLE OF YOGA IN SPORTS	16-17
2.5.3	IMPORTANCE OF YOGA AND PHYSICAL FITNESS	17-23
2.6	CONCLUSION	23-23
3.0	<b>REVIEW OF SCIENTFIC LITERATURE</b>	24-25
3.1	PHYSICAL FITNESS PARAMETERS	25-27
3.1.1	Hand grip Muscle Strength test	27-28

3.1.1.a	Yoga and Hand grip muscle strength	28-28
3.1.2	Muscle endurance Sit up test	33-35
3.1.3	Cardio-vascular endurance Harvard step up test	37-38
3.1.4	Body Mass Index	42-42
3.1.5	Flexibility	42-43
3.2	BOBBY CHARLTON SOCCER SKILLS	45-46
3.2.1	Dribbling	46-47
3.2.2	Lofted pass	47-47
3.2.3	Shooting	48-48
3.2.4	Passing	48-48
3.2.5	Juggling	49-49
3.3	SUMMARY OF THE LITERATURE REVIEW	54-54
3.4	NEED AND SCOPE OF THE STUDY	54-55
4.0	AIM AND OBJECTIVES	56
4.1	AIM	56-56
4.2	OBJECTIVES	56-57
4.3	RESEARCH QUESTIONS	57-57
4.4	HYPOTHESIS	57-57
4.5	NULL-HYPOTHESIS	57-58
5.0	METHODS	59
5.1	PARTICIPANTS	59-59
5.1.1	Sample size	59-59
5.1.2	Inclusion criteria	59-60
5.1.3	Exclusion criteria	60-60
5.1.4	Source of the participants	60-60

5.1.5	Ethical considerations	60-61
5.2	DESIGN	61
5.2.1	Randomization	61-61
5.3	INTERVENTION	62
5.4	ASSESSMENT OF PHYSICAL FITNESS PARAMETERS	65-66
5.4.1	Hand grip Muscle Strength test	67-67
5.4.2	Abdomen Muscle endurance Sit up test	67-67
5.4.3	Cardio-vascular endurance Harvard step up test	68-68
5.4.4	Body Mass Index	68-69
5.4.5	Flexibility	69-69
5.5	BOBBY CHARLTON SOCCER SKILL TESTS	70
5.5.1	Dribbling	70-70
5.5.2	Lofted pass	71-71
5.5.3	Shooting	72-72
5.5.4	Passing	73-73
5.5.5	Juggling	74-74
6.0	DATA EXTRACTION AND ANALYSIS	75
6.1	DATA COLLECTION	75-75
6.1.1	Data Extraction Organizational Procedure	75-75
6.2	DATA SCORING	76-76
6.3	DATA ANALYSIS	76-76
7.0	RESULTS	77
7.1	DEMOGRAPHIC DATA	78-78
7.2	PHYSICAL FITNESS TEST	78-78
7.2.1	Hand grip Muscle Strength test	78-79

Abdomen Muscle endurance Sit up test	80-80
Cardio-vascular endurance Harvard step up test	81
Body Mass Index	82
Flexibility	83
BOBBY CHARLS FOOTBALL SKILL TESTS	84
Dribbling (in second)	84-84
Dribbling (in score)	85-85
Lofted pass	86-86
Shooting	87-87
Passing	88-88
Juggling (in second)	89-89
Juggling (in score)	90-90
DISCUSSIONS	92
DEMOGRAPHIC DATA	92-92
PHYSICAL FITNESS OUTCOMES	92-92
Hand grip Muscle Strength test	92-94
Muscle endurance Sit up test	94-95
Cardio-vascular endurance Harvard step up test	95-97
Body Mass Index	97-98
Flexibility	98-99
BOBBY CHARLS FOOTBALL SKILL TESTS	99
Dribbling	99-101
Lofted pass	101-102
Shooting	102-103
Passing	103-103
	Body Mass IndexFlexibilityBOBBY CHARLS FOOTBALL SKILL TESTSDribbling (in second)Dribbling (in score)Lofted passShootingPassingJuggling (in second)Juggling (in second)Juggling (in second)Juggling (in second)DEMOGRAPHIC DATAPHYSICAL FITNESS OUTCOMESHand grip Muscle Strength testMuscle endurance Sit up testCardio-vascular endurance Harvard step up testBody Mass IndexFlexibilityBOBBY CHARLS FOOTBALL SKILL TESTSDribblingLofted passShooting

8.3.5	Juggling	104-104
9.0	APPRAISAL	105
9.1	SUMMARY OF OUTCOMES	105-106
9.2	CONCLUSION	106-106
9.3	THE STRENGTHS OF THE STUDY	106-107
9.4	LIMITATIONS OF THE STUDY	107-107
9.5	SUGGESTIONS FOR FUTURE RESEARCH	107-108
9.6	IMPLICATIONS OF THE STUDY	108-108
	REFERENCES	109-123

APPENDIX	DETAILS	PAGE
NO.		NO.
A1	INFORMED CONCENT FORM	124
A2	INSTITUTIONAL ETHICAL COMMITTEE LETTER	125
A2a	PLAGIARISM CHECK CERTIFICATE	127
A3	PHYSICAL FITNESS COMPONENTS RAW DATA	128
	OF TREATMENT GROUP	
A4	FOOTBALL SKILL COMPONENTS RAW DATA OF	130
	TREATMENT GROUP	
A5	PHYSICAL FITNESS COMPONENTS RAW DATA	132
	OF CONTROL GROUP	
A6	FOOTBALL SKILL COMPONENTS RAW DATA OF	134
	TREATMENT GROUP	

A6	Flow chart of Yoga on Overall Performance	136
A7	Flow chart of Football Performance	137
A8	Impact of low physical fitness on football players	138
A9	Flow chart of Dribbling skill	139
A10	Flow chart of Lofted Pass skill	140
A11	Flow chart of Shooting skill	141
A12	Flow chart of Passing skill	142
A13	Flow chart of Juggling skill	143
A14	Physical fitness & Yoga intervention photos	145
A15	LIST OF PUBLICATION AND PUBLISHED PAPERS	150

No.	LIST OF TABLES	Page No.
Table-3.1.1	Physical Fitness components- Hand Grip Muscle	30
	Strength	
Table-3.1.2	Physical Fitness components- Muscle Endurance	35
Table-3.1.3	Physical Fitness components- Cardio-vascular	39
	Endurance	
Table-3.1.4	Physical Fitness components- BMI & Flexibility	44
Table-3.2	Football Skill Components	50
Table-5.2	Design for Research Study	61
Table-5.3.1	Various Yoga and Fitness components	62
Table-5.3.2	Yoga program Schedule	63
Table-5.3.3	Physical Fitness Program	65
Table-5.3.4	Physical Fitness parameters	66
Table-7.1	Demographic data	78
Table-7.2.1	Results of Muscular Strength	79
Table-7.2.2	Results of Muscular Endurance	80
Table-7.2.3	Results of Cardio-vascular Endurance	81
Table-7.2.4	Results of BMI	82
Table -7.2.5	Results of Flexibility	83
Table-7.3.1	Results of Dribbling in sec.	84
Table-7.3.1.1	Results of Dribbling in scores	85

Table-7.3.2	Results of Lofted Pass	86
Table-7.3.3	Results of Shooting	87
Table-7.3.4	Results of Short Passing	88
Table-7.3.5	Results of Juggling in sec.	89
Table-7.3.5.1	Results of Juggling in scores	90
	List of Figures	
Figure-5.4.1	Hand Grip Muscular Strength	67
Figure-5.4.2	Muscular Endurance-Sit up	67
Figure-5.4.3	Cardio-vascular Endurance Harvard step up test	68
Figure-5.4.4	BMI –Ht & wt test	68
Figure-5.4.5	Flexibility-Sit and Reach test	69
Figure-5.5.1	Dribbling	70
Figure-5.5.2	Lofted Pass	71
Figure-5.5.3	Shooting	72
Figure-5.5.4	Short Passing	73
Figure-5.5.5	Juggling	74
Figure-7.0	Trial profile	77
Figure-7.2.1	Hand Grip Muscular Strength	79
Figure-7.2.2	Muscular Endurance-Sit up	80
Figure-7.2.3	Cardio-vascular Endurance Harvard step up test	81
Figure-7.2.4	BMI –Ht & wt test	82
Figure-7.2.5	Flexibility-Sit and Reach test	83
Figure-7.3.1	Dribbling in seconds	85
Figure-7.3.1.1	Dribbling in scores	86
Figure-7.3.2	Lofted Pass	87
Figure-7.3.3	Shooting	88
Figure-7.3.4	Short Passing	89
Figure-7.3.5	Juggling in seconds	90
Figure-7.3.5.1	Juggling in scores	91