

TABLE OF CONTENTS

		Page No.
Certificate by the Supervisor		i
Declaration by the Scholar		ii
Dedication		iii
Acknowledgement		iv
List of Content		vii
List of Tables		ix
List of Illustration		x
List of Appendices		xi
CHAPTER I	INTRODUCTION	1-29
1.1	Health	1
1.2	Meaning of yoga	1
1.3	Concept of yoga	2
1.4	Objectives of yoga	2
1.5	Asanas	3
1.6	Pranayama	3
1.7	Meaning of Diabetes	4
1.8	Causes of Diabetes	6
1.9	Types of Diabetes	7
1.10	Type I Diabetes Mellitus (IDDM)	7
1.11	Symptoms of Type I Diabetes Mellitus	8
1.12	Type II Diabetes Mellitus (NIDDM)	8
1.13	Symptoms of Diabetes Mellitus	9
1.14	Gestational Diabetes	11
1.15	Diabetes Mellitus distribution in India	11
1.16	Diabetes Mellitus A Life Style Disease	14
1.17	Modification of Life Style	16
1.18	Hatha Yoga	18
1.19	Objectives of the Problem	21
1.20	Statement of the Problem	21
1.21	Hypothesis	22
1.22	Significance of the study	22
1.23	Delimitations	23
1.24	Limitations	24
1.25	Meaning and definition of the terms	25
1.25.1	Yoga	25
1.25.2	Asana	25
1.25.3	Blood glucose	25
1.25.4	Hyper glycemia	25
1.25.5	Beta cell	26
1.25.6	Pancreas	26
1.25.7	HbA ₁ C	26
1.25.8	Cholesterol	27

1.25.9	Triglycerides	28
1.25.10	Lipoprotein	28
1.25.11	High density lipo protein	28
1.25.12	Low density lipo protein	28
1.25.13	Psychology	28
1.25.14	Depression	29
1.25.15	Anxiety	29
1.25.16	Stress	29
CHAPTER II	REVIEW OF RELATED LITERATURE	30-77
2.1	Studies related to Diabetes mellitus	31
2.2	Studies related to Bio-Chemical variables	36
2.3	Studies related to Psychological variables	42
2.4	Studies related to yogic training on Bio chemical variables of diabetes mellitus patients	46
2.5	Studies related to yogic training on psychological variables of diabetes mellitus patients	65
2.6	Summary of the literature	77
CHAPTER III	METHODOLOGY	78-115
3.1	Selection of Subjects	78
3.2	Selection of Variables	78
3.3	Experimental Design	79
3.4	Criterion Measures	80
3.5	Reliability of data	81
3.6	Reliability of Instruments	81
3.7	Testers' Reliability	81
3.8	Subject Reliability	82
3.9	Experimental Training Programme	83
3.10	Training Schedule	84
3.11	Curative Effect of Yogasana and Pranayama	89
3.11.1	Trikonasana	91
3.11.2	Ushtrasana	92
3.11.3	Pachaimottanasana	93
3.11.4	Pavanamukthasana	94
3.11.5	Bhujangasana	96
3.11.6	Chakrasana	97
3.11.7	Dhanurasana	98
3.11.8	Surya Namaskar	99
3.11.9	Shavasana	102
3.11.10	Kapalapathi	102
3.11.11	Nadi Shodana	103
3.11.12	Meditation	105
3.12	Test Administration	106
3.12.1	Blood Glucose	106
3.12.2	Fasting Plasma Glucose	107

3.12.3	Post Prandial Plasma Glucose	107
3.12.4	HbA ₁ C	108
3.12.5	Total Cholesterol	110
3.12.6	High Density Lipoprotein Cholesterol	111
3.12.7	Triglycerides	112
3.12.8	Low Density Lipoprotein Cholesterol	112
3.12.9	Test Administration of Psychological variables	112
3.13	Collection of Data	114
3.14	Statistical Procedures	114

CHAPTER IV ANALYSIS OF THE DATA AND RESULTS OF THE STUDY 116-154

4.1	Overview	116
4.2	Test of significance	117
4.2.1	Level of significance	117
4.3	Analysis of the Data	118
4.3.1	Blood glucose (fasting)	118
4.3.2	Blood glucose (post prandial)	121
4.3.3	HbA ₁ C	124
4.3.4	Total Cholesterol	127
4.3.5	Triglycerides	130
4.3.6	High Density Lipoprotein	133
4.3.7	Low Density Lipoprotein	136
4.3.8	Very Low Density Lipoprotein	139
4.3.9	Depression	142
4.3.10	Anxiety	145
4.3.11	Stress	148
4.4	Results of the variables	151
4.4.1	Discussion on findings	151
4.5	Discussion on Hypothesis	153

CHAPTER V SUMMARY, CONCLUSIONS AND RECOMMENDATIONS 155-158

5.1	Summary	155
5.2	Conclusion	156
5.3	Recommendations	157
5.4	Suggestion for further Research	158

BIBILOGRAPHY..... 159-170

Books.....	159
Journals.....	162
Unpublished Dissertation/Thesis	169
Websites.....	169