# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acknowledgements</td>
<td>(i)</td>
</tr>
<tr>
<td></td>
<td>Abstract</td>
<td>(iii)</td>
</tr>
<tr>
<td></td>
<td>List of Tables</td>
<td>(vi)</td>
</tr>
<tr>
<td></td>
<td>List of Figures</td>
<td>(xii)</td>
</tr>
<tr>
<td></td>
<td><strong>Chapter I</strong> INTRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Chapter II</strong> REVIEW OF LITERATURE</td>
<td>13</td>
</tr>
<tr>
<td>II – 1)</td>
<td>Global Epidemic of Childhood Overweight</td>
<td>14</td>
</tr>
<tr>
<td>II – 2)</td>
<td>Causes and Factors Leading to Childhood Obesity</td>
<td>26</td>
</tr>
<tr>
<td>II – 3)</td>
<td>Treatment of Childhood Obesity</td>
<td>40</td>
</tr>
<tr>
<td>II – 4)</td>
<td>Need for Nutrition Education</td>
<td>57</td>
</tr>
<tr>
<td>II – 5)</td>
<td>Prevention of Childhood Obesity</td>
<td>88</td>
</tr>
<tr>
<td>II – 6)</td>
<td>Conclusions</td>
<td>99</td>
</tr>
<tr>
<td></td>
<td><strong>Chapter III</strong> METHODOLOGY</td>
<td>102</td>
</tr>
<tr>
<td>III – 1)</td>
<td>Design of the Study</td>
<td>104</td>
</tr>
<tr>
<td></td>
<td>Phase - I Baseline</td>
<td>107</td>
</tr>
</tbody>
</table>
Phase - II

• Outline of Activities

• Nutrition Education Interventions for Parents and Teachers

• Nutrition Education Interventions and Modules for Children

• Nutrition Education Modules for Parents and Teachers

Phase - III

• Post Test

• Analysis of Data

Chapter IV  RESULTS AND DISCUSSIONS

IV. 1) Knowledge, Attitudes and Practices of Mothers

IV. 2) Frequency Of Food Consumption Among The Families

IV. 3) Pre-Test: Self Appraisal By Children

IV. 4) Impact Of Intervention- Comparison Of Pre-Test With Post-Test

IV. 5) Children’s Knowledge And Practices In Relation To Years Of Nutrition Education

IV. 6) Analysis Of Body Mass Index Of Children – Pre And Post Intervention

IV. 7) Analysis Of Food And Exercise Habits Of Overweight/ Obese Children

IV. 8) Comparisons Between Pre-Test And Post-Test Children Of Cohort
IV. 9) Highlights Of Results 294

Chapter V - SUMMARY, CONCLUSIONS AND RECOMMENDATIONS 297

BIBLIOGRAPHY 311

APPENDIX 339

Appendix 1 339

1 a) Self Appraisal Questionnaire – I (Used for Pre-Test) 340
1 b) KAP Questionnaire for Parents (Phase I) 345
1 c) Food Frequency Questionnaire (Phase I) 351
1 d) Self Appraisal Questionnaire – II (Used for Post-Test) 353

Appendix 2 – Nutrition Education Intervention – Standards I and II 356

2(a) Food Colour Wheel (FCW) 356
2(b) Food Guide Pyramid (FGP) 357
2(c) Story 358
2(d) “The Game of Nutrition” 362

Appendix 3 363
Module 1– Menu planning for IX and X standard students


Reading and Interpreting Food Labels


Module 6 – Workshop with Parents (2000-2001 onwards)

Module 7- Nutrition Education for Teachers

Appendix 4 – Photographs

Appendix 5 - Worksheets